

Shawna Senko

From: Shawna Senko
Sent: Wednesday, March 26, 2014 8:47 AM
To: 'Diana Csank'
Subject: RE: Revised Copy of Comments for Docket No. 13031-EI

Per this message, the Sierra Club has been added as an interested person for Docket No. 130301-EI

Shawna Senko
Florida Public Service Commission
Office of Commission Clerk
2540 Shumard Oak Boulevard
Tallahassee, Florida 32399-0850
850-413-6770

From: Diana Csank [<mailto:diana.csank@sierraclub.org>]
Sent: Wednesday, March 26, 2014 8:40 AM
To: Shawna Senko
Subject: Re: Revised Copy of Comments for Docket No. 13031-EI

Good morning, Shawna:

Thank you for the email below. Yes, please list me as an interested person using the contact information in my signature block.

Best regards,
Diana

On Wednesday, March 26, 2014, Shawna Senko <SSenko@psc.state.fl.us> wrote:

Good morning Mrs. Csank,

Per this message, your comments are being placed in *Docket Correspondence - Parties and Interested Persons*, DN 01311-14, in Docket 130301-EI.

I also noticed that the Sierra Club is not actually listed as an interested person for Docket No. 130301-EI. If you would like me to add the Sierra Club, please confirm that I may use the information in your signature block below.

Have a great day,

Shawna Senko

Florida Public Service Commission

Office of Commission Clerk

2540 Shumard Oak Boulevard

Tallahassee, Florida 32399-0850

850-413-6770

From: Diana Csank [mailto:diana.csank@sierraclub.org]
Sent: Tuesday, March 25, 2014 6:25 PM
To: Records Clerk
Cc: Bradley Marshall
Subject: Revised Copy of Comments for Docket No. 13031-EI

Attached please find a revised copy of comments from Sierra Club and Earthjustice, interested persons in Docket No. 13031-EI. Should you have any questions, my contact information is below.

Best regards,

Diana

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Diana

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Shawna Senko

From: Diana Csank <diana.csank@sierraclub.org>
Sent: Tuesday, March 25, 2014 6:25 PM
To: Records Clerk
Cc: Bradley Marshall
Subject: Revised Copy of Comments for Docket No. 13031-EI
Attachments: 2014 03 25 NGO Comments - Revised Copy.pdf

Attached please find a revised copy of comments from Sierra Club and Earthjustice, interested persons in Docket No. 13031-EI. Should you have any questions, my contact information is below.

Best regards,

Diana

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March 25, 2014

Ms. Carlotta S. Stauffer
Director, Office of Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, Florida 32399-0850

Re: Docket No. 130301-EI, Petition To Modify Scope Of Existing Environmental Program By Duke Energy Florida, Inc.

Earthjustice and Sierra Club, on behalf of Sierra Club's over twenty-nine thousand Florida members, file these comments to reiterate that Duke Energy Florida, Inc. (Duke) should retire Crystal River units 1 and 2 (CR South) by 2016 because additional Mercury and Air Toxics Standards (MATS) compliance expenditures are not prudent. As we have shown in a series of filings before the Commission in recent years, Duke has yet to submit a plan for providing customers low-cost, low-risk power. *See* 2012 and 2013 Ten-Year Site Plan Comment Letters, attached as Exhibits A, B, and C ("TYSP Comments"). Duke continues this pattern here by failing to give the Commission—and the public—a full accounting of the costs associated with Duke's plan to temporarily comply with MATS while continuing to operate CR South. By presenting merely two options—continued operation of CR South or purchasing power—Duke offers a myopic and an unduly narrow account of what is possible over the next five years, until Duke's binding commitment to stop burning coal at CR South takes effect in 2020. Clean, low-cost, low-risk alternatives would allay concerns regarding Duke's over-reliance on natural gas. They would also continue to serve Duke's load requirements long after 2020. Yet Duke's plan for CR South would forgo any serious effort to advance such alternatives, instead opting to sink millions of dollars into old coal units that must go offline in six years to comply with the Regional Haze Rule. This is far from prudent.

The Commission should deny Duke's Petition for three key reasons: First, Duke has not fully accounted for the costs of continuing operations at CR South, especially the additional, reasonably foreseeable environmental compliance costs that arise within the next six years. Second, in the Petition and publicly available filings in Docket No. 130301-EI, Duke fails to account for how energy efficiency—the lowest-cost, lowest-risk resource—could help meet load requirements in the absence of CR South. Third, Duke has given short shrift to renewable resources, another low-cost, low-risk alternative, which could take the form of short or long-term power purchase agreements, expanded distributed generation, and even utility-scale renewable systems built by Duke to serve load requirements by 2018 and beyond.

For these three reasons, detailed below, Earthjustice and Sierra Club maintain that Duke should retire CR South in 2016 and the Commission should deny Duke's petition. Section I discusses why additional MATS compliance expenditures are imprudent and liable to run up CR South's environmental compliance tab. Sections II and III show that to protect customers from any risk associated with retiring CR South and the possible over-dependence on natural gas which this retirement may promote, it is incumbent on Duke to emphasize efficiency and renewable energy options as alternatives to coal- and gas-burning capacity in resource planning.

I. Duke's Proposed Retrofit Is Imprudent and Duke Should Retire CR South Given The Hundreds of Millions of Additional Costs And Other Risks Associated With Continued Operation That Duke Has Failed to Disclose.

The continued operation of CR South is uneconomic for many reasons. Earthjustice and Sierra Club have repeatedly voiced our chief concern that new environmental rules will be taking effect and rendering CR South uneconomic. Compliance costs of EPA rules expected to take effect in the next six years alone will easily cost over \$1 billion for CR South, dwarfing the estimated regulatory cost submitted by Duke in this docket. Units 1 and 2 were originally brought online in the late 1960s, and are operating without major pollution controls, including smokestack scrubbers. These units are an increasingly bad deal for Duke's customers: In addition to posing a serious threat to public health, as discussed in our earlier comments, they would require hundreds of millions of dollars more in compliance costs to operate—even in the short term. *See* 2012 TYSP Comments, Ex. A

Further, utilities and regulators around the country are recognizing that rising pollution control and fuel costs make coal power uneconomic. The Energy Information Administration (EIA) reports that since November 2013 utilities and generators have announced the planned retirement of 5,360 MW of coal-burning generation. *See* EIA, *Planned coal-fired power plant retirements continue to increase* (Mar. 20, 2014), <http://www.eia.gov/todayinenergy/detail.cfm?id=1549> ("EIA Coal Forecast"). Duke has a responsibility to address this industry trend favoring retirement over retrofit in Duke's plans surrounding CR South. Instead, through a piece-meal approach that only acknowledges two out of the possible six or more EPA rules that will impact CR South's continued operation over the relevant planning horizon, through 2020 and beyond, Duke has failed to substantiate the prudence of the proposed MATS and BART-only compliance expenditures. As detailed below, the upcoming EPA rules will impact CR South over the next few years, with some rules possibly impacting the units as early as this year. The resulting multi-million dollar life-extension projects that the aging units 1 and 2 would require to operate over the next six years—and that Duke has failed to disclose here—render these units uneconomic, consistent with the industry trend.

- a. Impacts Of Dry Sorbent Injection On Electrostatic Precipitator (ESP) Performance – Approximately \$125 Million More in Compliance Costs

To show that the proposed MATS compliance measures will actually result in MATS compliance, Duke performed several test burns at CR South, monitoring emissions under several test conditions. The test burn results suggest—but Duke has failed to disclose—that Duke would have to spend approximately \$125 million for baghouses to comply with MATS, even for just the few years CR South would operate beyond April 2016.

Recall that Duke's test conditions included the use of coal from a different source (West Elk Colorado coal as opposed to the normal Central Appalachian coal), and the addition of hydrated lime and activated carbon as injectants at varying rates. While these test results demonstrate that Duke *may* be able to meet the MATS emissions limitations using a combination of West Elk Coal, hydrated lime injection, *and* activated carbon injection, these test results also include very worrying data regarding the performance of the ESP in its ability to remove particulate matter (PM) from the emissions of CR South.

As shown in attached Exhibit D, the MATS test burn results show a marked increase in PM emissions over the baseline emissions established during the first test runs. Further, the test burn results show that PM emissions more than doubled during the test trials using hydrated lime and/or activated carbon. No surprise here; DSI can inhibit the efficiency of ESPs. Although Duke claims that Duke will make changes to CR South's ESP, such changes would likely be insufficient for Duke to avoid New Source Review, or to avoid going over PM emission limits (currently set at 0.1 lb/MMBtu). New Source Review is triggered by the addition of a "significant" increase of a criteria pollutant, defined as 25 tons per year, including PM, due to any kind of modification. As the test burn results show, New Source Review will be triggered by Duke's current MATS compliance plan, which will require the installation of the best available control technology. 42 U.S.C. § 7475. Based on the MATS test burn results, for example, for Crystal River unit 1, PM emissions for the baseline averaged approximately 0.05 lb/MMBtu (this baseline is not necessarily the baseline the utility would use in New Source Review calculations, but is illustrative of the approximate baseline Duke Energy would need to use). At 92% load, using the West Elk coal and the hydrated lime and activated carbon, PM was emitted at a rate of 0.119 lb/MMBtu, more than double the baseline rate under the same loading conditions. Heat input at the time was about 3,400 MMBtu per hour. PM was emitted at a rate of 0.069 lb/MMBtu in excess of baseline conditions. At that rate of excess emissions, Crystal River unit 1 will emit over 1,000 pounds of extra PM a year over baseline, well over significance thresholds. Crystal River unit 2 produced almost identical MATS test burn results.

To control the increased PM emissions due to the inhibited ESP performance, comply with current permit limits, and comply with New Source Review, Duke will have to install baghouses under the current MATS compliance plan for CR South. This retrofit will cost Duke—and Duke's customers—approximately \$125 million. *See* attached Exhibit E (showing approximate costs of baghouse retrofit on coal unit). This is not the only area where Duke has grossly underestimated the environmental compliance costs of continuing to operate CR South.

b. 1-Hour SO₂ National Ambient Air Quality Standards – Approximately \$445 Million More in Compliance Costs

MATS compliance aside, CR South will require a scrubber to comply with the SO₂ National Ambient Air Quality Standards (“NAAQS”), *see* 40 C.F.R. § 50.17, which would cost Duke—and Duke’s customers—approximately \$445 million. *See* Exhibit F, BART documentation at 47. The NAAQS are public health protections that aim to maintain the air quality at the minimum standard needed to protect public health. The new 1-hour annual ambient air quality standard for SO₂ is 7 parts per billion. As shown in the attached Exhibit G, Crystal River SO₂ emissions cause gross violations of this standard that Duke will be forced to correct.

More specifically, emissions at Crystal River will have to be reduced by 79.1%, with an average SO₂ emission rate of 0.25 lbs/MMBtu. *See* Exhibit G at 4. Based on the test burn results provided by Duke regarding MATS compliance, switching to lower sulfur coal for units 1 and 2 for MATS compliance will aid with NAAQS compliance, but not nearly enough to achieve full compliance. According to the Continuous Emissions Monitoring data during the test burn time period, and excluding when Appalachian coal was used (as SO₂ emissions were significantly higher during this time period, thus making the following analysis more conservative, assuming *arguendo* that Duke will switch to a lower sulfur coal), *see* Exhibit D, Crystal River unit 1 emissions for SO₂ averaged 0.739 lbs/MMBtu while burning low sulfur coal, and had an average heat input of 2954 MMBtu/hour. Notably, this average heat input rate is lower than normal for Crystal River unit 1, as Duke performed the test burn with loads as low as 70%, and only as high as 92% (*see* Exhibit D, test burn results). Crystal River unit 2 averaged 0.710 lbs/MMBtu for SO₂, and had an average heat input of 3851 MMBtu/hour. Unit 4, as a basis for comparison and because the NAAQS compliance will have to be accomplished on a facility wide basis, averaged 0.120 lbs/MMBtu for SO₂, with an average heat input of 5709 MMBtu/hour. Unit 5 averaged 0.105 lbs/MMBtu for SO₂, with an average heat input of 5108 MMBtu/hour while operational. Even with the lower emissions rates from Crystal River units 4 and 5, the facility average for the plant was still 0.348 lbs/MMBtu for SO₂. Because of the conservative assumptions of these calculations, and the artificially lower loading at units 1 and 2 because of the nature of the MATS testing, in actual operation, this emissions rate is likely to be significantly higher, even assuming that Duke Energy will use low sulfur coal at units 1 and 2 as they did for most of the MATS compliance testing. In any case, this testing demonstrates that the Crystal River facility, because of units 1 and 2, is well in excess of the SO₂ emissions rate of 0.25 lbs/MMBtu needed for compliance with the NAAQS standard, even if Duke Energy switches to low sulfur coal (for the Continuous Emissions Monitoring Data used to calculate these averages, *see* Exhibit H).

This means that it is likely that a scrubber will be required for NAAQS compliance as long as CR South is operational. The installation of a scrubber at Crystal River will cost Duke Energy, and ultimately its ratepayers, approximately \$445 million. *See* Exhibit F, BART documentation at 47. As is clear by now, any investments in the

continued operation of CR South cannot be prudently incurred when such necessary and expensive environmental compliance measures are at hand.

c. Cross-State Air Pollution Rule – Approximately \$182 Million More in Compliance Costs

The Cross-State Air Pollution Rule, also known as the Good Neighbor Rule, is designed to prevent upwind states from causing violations of the NAAQS in downwind states. Complying with this Rule would require Duke to spend significant sums on NO_x allowances for CR South, if such allowances are even available on the market, or, more likely, Duke will have to retrofit CR South with selective catalytic reduction (SCR) at a cost of approximately \$182 million.

The Cross-State Air Pollution Rule, 76 Fed. Reg. 48 (Aug. 8, 2011) is currently before the United States Supreme Court. *See Environmental Protection Agency v. EME Homer City Generation*, No. 12-1182 (2013). Under this version of the Good Neighbor Rule, the historic baseline of NO_x emissions for ozone season for the entire Crystal River facility is 17,881 tons per ozone season each year. With the installation of selective catalytic reduction (SCR) on Crystal River units 4 and 5, NO_x emissions have fallen on a facility-wide basis for Crystal River, but have not decreased enough. Crystal River will get allocations to emit 2,850 tons of NO_x per ozone season per year, but in 2013, emitted 3,940.6 tons of NO_x during the ozone season. *See Exhibit I.* CR South, on its own, emitted a total of 2,706 tons of NO_x during the ozone season. Under the Cross-State Air Pollution Rule, CR South will only be allocated 892 tons of NO_x to emit during the ozone season. Therefore, Duke would have to spend significant sums on buying the allowances, needed to make up the shortfall, if available, or, more likely, Duke would have to retrofit CR South with SCR at a cost of approximately \$182 million. *See Exhibit F* at 49. Moreover, the Cross-State Air Pollution Rule could come into effect shortly after the Supreme Court renders a decision, which is expected this year. In other words, Duke—and Duke's customers—would likely face this cost by 2015 if CR South continues to operate.

d. Cooling Water Intake Structure Rule – Approximately \$45 to \$780 Million More in Compliance Costs

Another rule that will have a costly impact on CR South—likely between \$45 million and \$780 million—is the Cooling Water Intake Structure Rule, set to be finalized by April 17, 2014, *see Exhibit J.* This rule is intended to establish requirements under section 316(b) of the Clean Water Act. *See 76 Fed. Reg. 22174* (Apr. 20, 2011). The Rule would establish national requirements regarding the location, design, construction, and capacity of existing cooling water intake structures with a technology standard reflecting the best technology available for minimizing adverse environmental impact. The purpose of this is to minimize adverse environmental impacts by substantially reducing the harmful effects of impingement and entrainment that currently occurs at cooling intake structures. Large coal plants with once through cooling water, including CR South, cause the greatest harm. The environmental harm these structures cause is

immense, and thus, so are the proposed solutions by EPA. EPA proposed several options for addressing this problem. As shown in Duke's ten-year site plan, depending on which option EPA chooses, compliance costs for CR South would run between \$45 million and \$780 million. *See* Exhibit K at 42. EPA's decision should be published by the time the Commission makes a decision on this docket. Therefore, the Commission should include the expected environmental compliance costs of this rule in its consideration of Duke's Petition; there is absolutely no excuse for Duke's omission of such costs.

e. Coal Ash Residuals Rule

In 2010, EPA issued a proposed rule for regulating the disposal of coal combustion residuals under the Resource Conservation and Recovery Act. 75 Fed. Reg. 35,128 (June 21, 2010). Coal combustion residuals contain many harmful toxins, including mercury and arsenic. Coal ash spills around the country, most recently in the Dan River, illustrate the danger presented by coal combustion residuals which turn water into toxic sludge. Depending on the approach EPA adopts in the final rule, this could significantly increase the cost of disposal of coal combustion residuals, including for CR South. The final rule should be issued by December 2014.

f. Effluent Limitations Rule

EPA has also recently proposed an effluent limitations rule for existing power plants. 78 Fed. Reg. 34432 (June 7, 2013). Compliance will be required by July 2017. As noted by EPA, power plants alone contribute 50-60 percent of all toxic pollutants discharged to surface waters by all industrial categories currently regulated. EPA is considering 8 different regulatory options for establishing different technology standards that could include significant new treatment requirements to ensure coal power plants stop destroying our water. The costs for CR South to comply with this rule will certainly be millions of dollars, although an exact estimate is difficult considering it is unknown which option EPA will choose.

These new environmental compliance rules show that it will cost hundreds of millions of dollars, probably over \$1 billion, just to bring CR South into compliance with environmental regulations. Considering that CR South is already mandated to retire by the end of 2020, investments of such large sums of money cannot be considered to be prudently incurred. Duke Energy's ratepayers are already on the hook for the failed Crystal River unit 3 nuclear power plant, and for the proposed and now indefinitely postponed Levy Nuclear project. These ratepayers should not be on the hook for hundreds of millions of more dollars spent on a power plant that will not be able to produce power because of a mandatory retirement. As described in more detail in sections II and III, Duke should be investing its money in energy efficiency and renewable energy to meet the energy needs of Floridians, instead of wasting money on two aging coal units that have no future and must go offline by 2020 to comply with the Regional Haze Rule.

II. Energy Efficiency Is The Least-Cost, Least-Risk Resource, And The Commission Should Require Duke To Show To What Extent Energy Efficiency Investments Could Obviate The Need For The Proposed Expenditures.

Energy efficiency can rapidly produce hundreds of megawatts in savings; savings that are sufficient to replace, at least in part, load requirements now met by CR South. Notably, through utility-sponsored energy-saving measures Florida has already reduced total electric energy consumption by an estimated 8,937 gigawatt-hours (GWh), and achieved demand savings that have deferred the need for up to 60 typical 150 MW combustion turbine units. *See* FPSC, Annual Report on Activities Pursuant to FEECA (Sept. 2014), at 1 (“2014 FEECA Report”). The cost-effectiveness of such measures is beyond dispute. *See, e.g.*, Galligan et al., *Evaluation of Florida’s Energy Efficiency and Conservation Act* (Dec. 7, 2012) at 9 (concluding “Florida’s DSM program costs per unit of energy saved and capacity avoided are cost-effective compared with Florida’s average costs for electricity, and are in line with costs in similarly situated states.”); *see also* Billingsley et al., *The Program Administrator Cost of Saved Energy for Utility Customer-Funded Energy Efficiency Programs*, Lawrence Berkeley National Laboratory (Mar. 2014), at xi, attached as Exhibit L (reporting on energy efficiency program cost data from more than 100 program administrators in 31 states, primarily for the years 2009–2011 and finding that the national average levelized cost of energy savings is 2.1 cents per kilowatt-hour, cheaper than any generation and most purchased power.).

Yet Duke’s Petition and the publicly available filings are virtually silent on efficiency. This omission is inexcusable because Earthjustice and Sierra Club have repeatedly called on Duke to fully incorporate efficiency into resource planning, including the plans for CR South, as required by Florida law and recommended by industry best practice. *See* TYSP Comments, Ex. A–C.

Efficiency is a viable option here. Recall that units 1 and 2 are currently rated to produce 370 MW and 499 MW net, in the summer months. *See* Document No. 00692-14, CR South Environmental Compliance Study (Dec. 2013), at 3. Further, Duke estimates that continued operation would reduce the nominal full output of the units by 15%, but the changes needed to the electrostatic precipitators may drive down output even further. *Id.* In sum, Duke needs less than 740 MW to replace the capacity from the two units.

Potentially, Duke could cost-effectively replace this capacity with energy efficiency, if Duke were to match other utilities—including Duke’s very own sister subsidiaries—and move to incremental annual energy savings of 1% to 2% relative to sales over the next five or six years. As Table 1 below shows, if Duke were to expand its DSM program in Florida to the levels achieved by Duke in North Carolina or Duke in Ohio, Duke would provide peak load savings close to 740 MW or exceed 740 MW within 5 to 6 years.

Table 1. Comparison of Potential Summer Peak Load Savings¹

| Year | Duke OH Level | | Duke NC Level | |
|------|----------------|---------------|----------------|---------------|
| | Incremental MW | Cumulative MW | Incremental MW | Cumulative MW |
| 1 | 62 | 62 | 62 | 62 |
| 2 | 111 | 173 | 76 | 138 |
| 3 | 159 | 332 | 90 | 228 |
| 4 | 207 | 539 | 104 | 331 |
| 5 | 255 | 794 | 118 | 449 |
| 6 | 303 | 1,097 | 131 | 580 |

Also, while Duke’s subsidiaries in North Carolina and Ohio are more than doubling and quadrupling the incremental annual energy savings rates of Duke’s Florida arm, they are generating greater benefits for Duke’s customers in those states as summarized in Table 2 below.

Table 2. Comparison of Job Growth, Net Benefits, and Participant Counts for Duke²

| Scenario | Savings level by Duke Ohio | Savings level by Duke NC | Current Duke in Florida |
|--|----------------------------|--------------------------|-------------------------|
| Annual energy savings as a percent of sales (%) | 1.50% | 0.65% | 0.31% |
| Annual energy savings estimates (GWh) | 546 | 236 | 112 |
| Annual summer peak reduction (MW) | 303 | 131 | 62 |
| Annual energy savings relative to Duke Florida (%) | 485% | 210% | 100% |
| Potential net job creation in the first year (# of jobs) | 273 | 118 | 56 |
| Net benefits (lifetime) (\$000) | 3,023 | 1,310 | 623 |
| Program participants | 623,868 | 270,343 | 128,555 |

¹ This analysis is primarily based on the analysis presented in Table 2. Annual incremental peak load savings were assumed to increase linearly from the current level of 62 MW to the scales achieved by Duke Ohio or Duke North Carolina.

² Synapse Energy Economics estimated potential DSM program impacts, excluding solar pilot programs, for Duke Florida regarding net job growth, net benefits, and program participants by scaling the current program impacts by Duke Florida to the levels currently achieved by Duke Ohio and Duke North Carolina. The summary of this analysis is presented in the table. Data source: Progress Energy “Progress Energy DSM Annual Report for Calendar Year 2012”, May 1, 2013; ACEEE, “Positive Returns: State Energy Efficiency Analyses Can Inform U.S. Energy Policy Assessments,” June 2008; and US EIA 861 database.

Given these disparate levels of energy savings and related benefits, the Commission should hold Duke to account for adding more energy efficiency to its power network as an alternative to CR South's continued operation. To do so, Duke may need to purchase power for some time after retiring units 1 and 2 in 2016 to allow Duke's Florida DSM program to ramp up to point where it can fully make-up these units' capacity. Then again, again efficiency—the lowest-cost, lowest-risk resource—should be able to make-up the capacity in as little as five years.

Earthjustice and Sierra Club also urge Duke to evaluate the potential for efficiency to address the transmission concerns cited in this docket. Utilities around the country are deferring expensive transmission and distribution system upgrades through geographically-targeted energy efficiency programs. For example, Con Edison has dispatched demand-side efficiency measures to improve grid reliability in New York City and has effectively deferred upgrades in more than one third of its distribution networks. *See Neme et al., US Experience with Efficiency as a Transmission and Distribution System Resource*, Regulatory Assistance Project (Feb. 2012), at ii, iii, attached as Exhibit M. Notably, Con Edison's resulting savings were very close to forecast needs and provided more than \$300 million in net benefits to customers. *Id.* As another example, in 2008, NV Energy in Nevada used targeted demand-side management programs such as rebates on Energy Star Appliances, commercial retrofit incentives, and low-income weatherization to avoid new transmission lines to growing parts of the state, which saved customers money on their bills through end-use efficiency and through the avoidance of costly transmission upgrades. *Id.* at 16–17. Here, in addition to accounting for efficient transmission and distribution investments options, Duke should investigate targeted non-wires alternatives, which could create immediate reductions in peak demand, decreases in congestion, and actively defer some of the costly transmission investments that Duke is currently considering.

The time is particularly ripe for Duke to advance energy efficiency due to the sweeping changes in Duke's power network, as discussed in our previous comment letters, including: closure of Crystal River unit 3, the finalization of long-delayed public health and environmental rules, flattening load requirements, and risky over-reliance on natural gas. Fortunately, Florida's comprehensive resource planning processes—namely Ten-Year Site Planning and the Florida Energy Efficiency and Conservation Act goal-setting—require Duke to fully assess the potential demand-side and supply-side energy efficiency advancements in Duke's Florida power network. Therefore, Duke should already be modeling the viability of energy efficiency as a resource option throughout its power network, and have the results readily available to present to the Commission here.

III. Renewable Resources Are Low-Risk, Low-Cost Alternatives And There Is No Excuse For Omitting Them As An Option Here.

Florida has some of the best potential for solar power in the country, yet only a small portion of Duke's power network relies on solar generation or other renewable resources. By comparison, utilities around the country are opting to purchase renewable resources like solar power—even over natural gas—citing their low costs and risk-

hedging value against fossil fuel-burning generation. Neighboring Georgia offers a good example: Within four years (2012–2016), Georgia Power Company will add over 700 MW of solar to its network. See Advanced Solar Initiative, <http://www.georgiapower.com/about-energy/energy-sources/solar/asi/advanced-solar-initiative.cshtml>; see also, Ivan Penn, *Georgia utility regulator: Sunshine State to lose solar race along with football title*, Tampa Bay Times (Nov. 19. 2013) <http://www.tampabay.com/news/business/energy/georgia-utility-regulator-sunshine-state-to-lose-solar-race-along-with/2153172>. The following table shows other recent examples of renewable power purchase agreements:

Table 3. 2013–2014 Examples of Renewable Power Purchase Agreements

| Date | State | Utility | Resource | MW | Cost | Source |
|----------|-------|-------------------------------------|----------|-----------------|---|---|
| 11/8/13 | NM | El Paso Electric Company | Solar | 35 | \$57.90/MWh | NM Public Regulation Commission Case No. 12-00386-UT |
| 11/8/13 | NM | Southwestern Public Service Company | Wind | 199 | \$19.18/MWh | NM Public Regulation Commission Case No. 12-00233-UT |
| 11/8/13 | NM | Southwestern Public Service Company | Wind | 249 | \$21.20/MWh | NM Public Regulation Commission Case No. 12-00233-UT |
| 11/8/13 | NM | Southwestern Public Service Company | Wind | 250 | \$20.15/MWh | NM Public Regulation Commission Case No. 12-00233-UT |
| 12/10/13 | CO | Public Service Company of Colorado | Solar | 170 | Bids for PV solar were the least cost resource in the portfolio | CO Public Utilities Commission Decision No. C13-1566 |
| 1/2/14 | MN | Geronimo Energy | Solar | 20 large arrays | Solar won out against natural gas in a head to head price comparison, without state subsidy | http://www.eenews.net/greenwire/stories/1059992330/print |
| 3/10/14 | TX | Austin Energy | Solar | 150 | 5 cents/KWh | https://www.greentechmedia.com/articles/read/Cheapest-Solar-Ever-Austin-Energy-Buys-PV-From-SunEdison-at-5-Cents-Per-Ki |
| 3/20/14 | CA | Palo Alto | Solar | 398 KW | 4 cents/KWh | http://www.greentechmedia.com/articles/read/Anatomy-of-a-PPA-4-Cent-Per-Kilowatt-Hour-Solar-in-Palo-Alto-CA . |

Despite these industry trends, Duke has failed to account for the option of adding solar and other renewable resources more rapidly to its network. Duke has no excuse.

Sierra Club urged in comments last year that, at a minimum, Duke should test the market and disclose the results by issuing an RFP for renewable power like GPC did. *See* 2012 TYSP Supplemental Comments, Ex. C. Further, distributed generation and self-built utility-scale solar systems are also options that Duke must explore under the FEECA goal-setting and TYSP processes, and should present here—at least as an option to serve load requirements by 2018 given the additional time potentially needed to ramp up these types of renewable resources.

IV. Conclusion

For all the reasons reiterated in this Comment Letter, Earthjustice and Sierra Club respectfully request that the Commission deny Duke's Petition. Duke's proposed expenditures to temporarily comply with MATS and keep CR South operating are imprudent. Further, to protect Duke's customers from any risk associated with retiring these units and the possible over-dependence on natural gas which they may promote, the Commission should emphasize efficiency and renewable energy options as alternatives to coal- and natural gas-burning capacity. We look forward to continuing to working with the Commission to ensure that Florida ratepayers secure healthier air and a more reliable and efficient electricity system. Should Staff or Commissioners have any questions or wish to discuss this matter, please contact one of the undersigned.

Sincerely,

/s/

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Exhibit A

July 2, 2012

Mr. Phillip O. Ellis
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CC: Traci Matthews
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Re: Comments on Progress Energy's Ten-Year Plan Submittal

Dear Mr. Ellis and Ms Matthews:

Thank you for accepting these comments on behalf of the Sierra Club and its more than 27,000 Florida members, and on behalf of Earthjustice. We look forward to participating in the Public Service Commission (PSC)'s Ten-Year Plan review process. We are writing to help inform the Commission of serious regulatory risks which should be addressed in this Ten-Year Plan.

As you know, Ten-Year Plans are designed to provide a broad overview of a utility's "power-generating needs and the general location of its proposed power plant sites;" accordingly, plans must be "suitable" for planning purposes. F.S. § 186.801; *see also* F.A.C. §§ 25-22.070 & 25-22.071. These plans are among the many tools used by the Commission as it fulfills its statutory responsibilities to maintain "sufficient, adequate, and efficient service" and "fair and reasonable rates" for all Floridians. *See, e.g.*, F.S. § 366.03.

To do so, the Commission will have to address the implications of substantial new environmental compliance obligations at several aging coal-fired units. A recent report for state utility commissioners, primarily authored by former Colorado PSC Chair Ron Binz, puts the problem succinctly, reminding regulators that "[t]he U.S. electric utility industry, which has remained largely stable and predictable during its first century of existence now faces tremendous challenges," including the prospect of substantial retirements of coal-fired power plants. *See* Ron Binz & CERES, *Practicing Risk-Aware Electricity Regulation: What Every State Regulator Needs to Know* (2012) at 5.¹ These "retrofit or retire" decisions will lead to significant changes in the Florida coal fleet, and the PSC will be charged with managing these shifts. As Commissioner Binz writes:

The question for regulators is whether to approve coal plant closures in the face of new and future EPA regulations, or to approve utility investments in costly pollution controls to keep the plants running. Regulators should treat this much like an IRP proceeding: utilities

¹ Attached as Ex. 1.

should be required to present multiple scenarios differing in their disposition of the coal plants. The cost and risk of each scenario should be tested using sensitivities for fuel costs, environmental requirements, cost of capital, and so forth. In the end, regulators should enter a decision that addresses all of the relevant risks.

Id. at 9.

These comments highlight some of these important risks. The Commission should use the Ten-Year Plan informational docket to fully investigate them. We have submitted similar comments addressing plans filed by several different utilities; this filing focuses on coal-fired power plants operated by Progress Energy.

I. Progress Energy's Crystal River Plant Face Substantial Environmental Compliance Costs

Units 1 and 2 at Progress Energy's Crystal River plant were put into service in the late 1960s, and are operating without major pollution controls, including smokestack scrubbers. See FL DEP Air Operation Permit No. 0170004-025-AV (2011) at 6. These units are an increasingly bad deal for ratepayers: In addition to posing a serious threat to public health, they are not economic to operate. As utilities and PSCs around the country are increasingly recognizing, rising pollution control and fuel costs make coal power an unattractive proposition, especially as energy efficiency, demand-side resources, and renewable power become ever more available and as natural gas prices continue at record lows. Multi-million dollar life-extension projects for aging coal plants are not prudent in these circumstances. Progress has already told FL DEP that it will consider retiring units 1 and 2 within the next decade. See Progress Energy BART Implementation Plan for Crystal River Units 1 and 2 (June 2012) at 3.² Yet, Progress's Ten-Year Plan does not even mention these units, much less address their retirements.

Because of this striking gap, Progress's plan is not "suitable" for planning purposes. See F.S. § 186.801. The likely retirement of the Crystal River units has important implications for the "need ... for electrical power" in its service territory, and for how that need is to be met, as well on "fuel diversity within the state," the "environmental impact" of any proposed replacement power, and the state "comprehensive plan." See F.S. § 186.801. The Commission should therefore ensure that Progress submits a corrected plan which discloses its intentions as fully as possible. It is particularly important to do so because Progress will face compliance obligations within the next few years that will lead to retirement decisions. The Commission can best protect Floridians by beginning the planning process for these likely retirements now.

Crystal River Units 1 and 2 are likely retirement targets because both units lack "scrubbers," the flue-gas desulfurization systems required to remove SO₂, which can cause deadly respiratory damage, from their emissions. Scrubber systems for these plants would cost tens of millions of dollars. Such an investment, and corresponding rate increase, would not be prudent

² Attached as Ex. 2.

when much cheaper sources of power are available. Accordingly, the Commission should work with Progress Energy to investigate retirement options for these plants.

In the discussion below, we explain the likely sources of scrubber liability for Crystal River, before briefly highlighting the many other environmental compliance costs which Progress is likely to face.

A. Likely Scrubber Liability for Crystal River Units 1 and 2

Three separate environmental and public health protection programs are likely to drive scrubber installation requirements, and hence “retire or retrofit” decisions, at Crystal River: the SO₂ National Ambient Air Quality Standards (“NAAQS”), 40 C.F.R. § 50.17, the Mercury and Air Toxics Standards (“MATS”), 40 C.F.R. Subpt. UUUU, and the Regional Haze Rule, 40 C.F.R. § 51.308.

i. The SO₂ NAAQS

Just five minutes of exposure to SO₂ can make people sick; in fact, the causal link between this pollution and asthma attacks and other respiratory problems is the “strongest” such link which the EPA’s scientific advisory board can identify. 75 Fed. Reg. 35,520, 35,525 (June 22, 2010). To protect the public from such pollutants, EPA is required to set NAAQS specifying the safe level of public exposure; states then develop state implementation plans (SIPs) to ensure that those standards are attained. See 42 U.S.C. §§ 7409 & 7410. EPA’s decision to protect public health by lowering the NAAQS for SO₂ to a maximum allowable exposure of 75 ppb (a concentration equivalent to 196.2 µg/m³) over an hour, see 75 Fed. Reg. 35,520 (June 22, 2010), thus obliges Florida to update its SIP to ensure that its citizens are protected from this dangerous air pollution.

States are generally required to submit updated SIPs “within 3 years” after EPA updates a NAAQS; because EPA finalized its NAAQS in 2010, Florida’s plan is due in 2013. 42 U.S.C. § 7410(a)(1). The plan must “provide[] for implementation, maintenance, and enforcement of” the standard throughout Florida. *Id.* Although EPA’s approval and review process may delay plan implementation for a year or two after submission, the Commission can reasonably expect Florida’s SIP to be operating by 2015 or before.

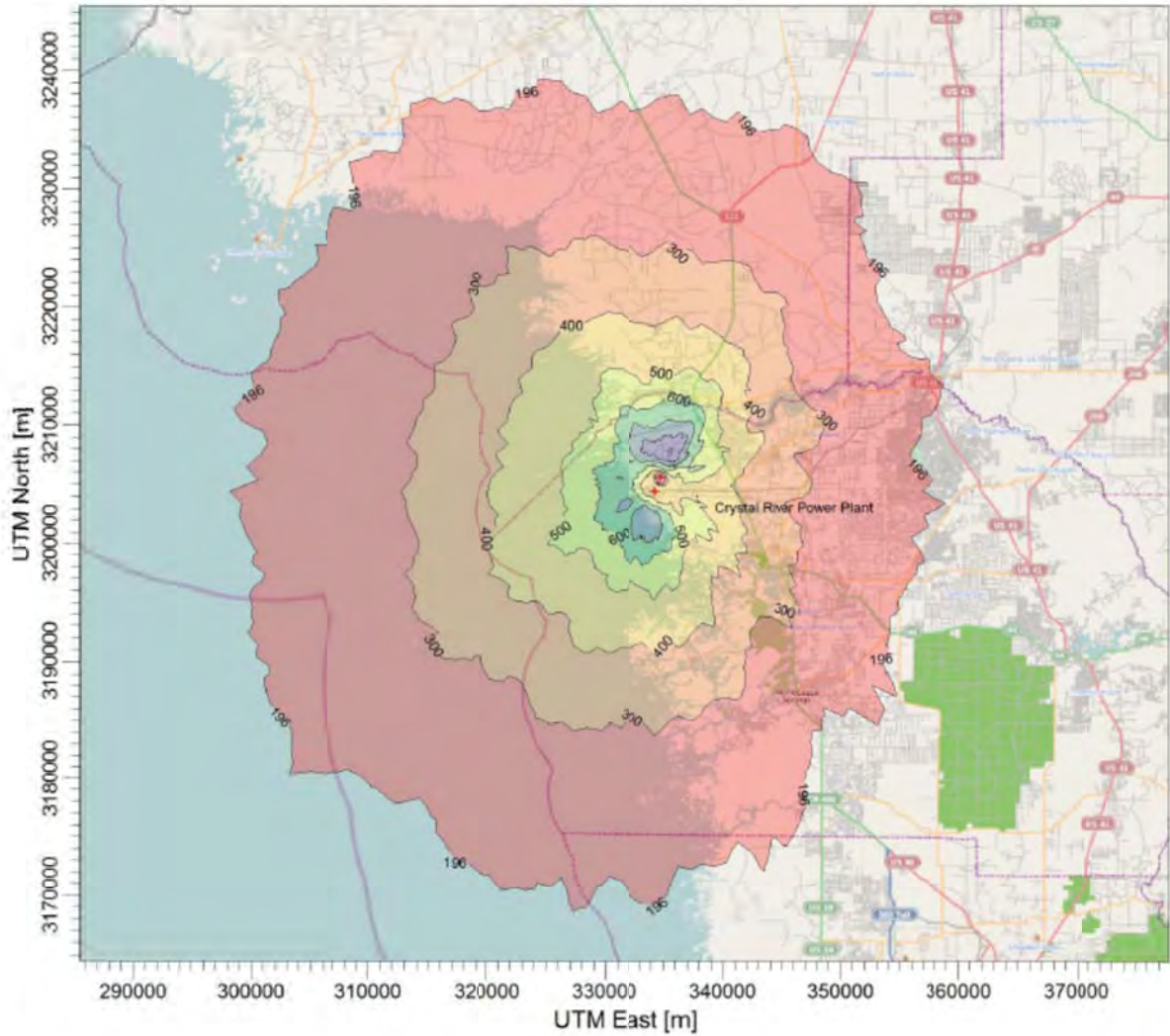
This tight timeline is directly relevant to the Commission’s review of Progress Energy’s plans because the Crystal River plant is causing violations of the NAAQS, and so will have to install controls under any legal SIP. Sierra Club engaged an expert air modeler, Steve Klafka of Wingra Engineering, to evaluate the plant’s compliance with the NAAQS, using EPA’s models and methodology.³ We modeled both the plant’s allowable emissions – those authorized by its Title V Air Operation Permit, No. 017000–025-AV, and its maximum emissions in 2011, the most recent year with complete data in EPA’s Air Pollution Markets Database. Whether measured by

³ The methodology is described in detail in the attached report, Ex. 3.

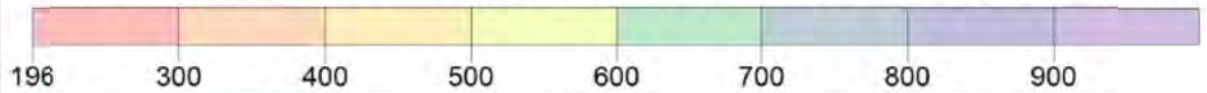
its permit or by its most recent maximum emissions, the plant causes pollutants in the air near Crystal River to reach dangerous levels.


The figure below shows the SO₂ pollution plume the plant would create when operating at its permit limits. All colored areas violate the NAAQS. While the NAAQS is set at 196.2 µg/m³, Crystal River's permit allows pollution levels to soar to a maximum of 921.0 µg/m³, over 460% of the safe value; even a bit further away from the plant, the pollution in the air directly over residential areas and over Crystal Bay is well above safe levels.

Crystal River Power Plant - Crystal River, Florida
Evaluation of Compliance with the 1-hour NAAQS for SO₂



1-hour average SO₂ concentrations (ug per cubic meter) - All colored areas exceed the NAAQS.



| | | | | | |
|---|-----------------|-----------------------------|--|--|------------------|
| All concentrations include a background of 5.2 ug/m ³ . This figure is based on allowable emissions. | Total Sources | 6 | | Conducted on behalf of the Sierra Club | |
| | Total Receptors | 22083 | | by Wingra Engineering, S.C. | |
| | Output Type | Concentration | | SCALE: | 1:580,926 |
| | Maximum | 921.02714 ug/m ³ | | 0  20 km | |
| | | | | DATE: | 6/25/2012 |

Importantly, Crystal River causes NAAQS violations even when operating below its permitted maximums. Last year, the plant's highest operating hour emissions saw SO₂ concentrations reach 534.6 µg/m³, which is nearly three times the safe value. See Ex. 2 at Table 1.

To reduce this illegal pollution, Crystal River would have to cut total facility emissions by 79.1% from its current permit. *Id.* at Table 3. To do so, it is highly likely to have to install a scrubber, thereby confronting hundreds of millions in control costs, which we document more fully below. Importantly, these costs will be far outweighed by public health benefits. EPA determined that the NAAQS will produce on the order of \$36 billion in *net* benefits once safe levels of SO₂ have been attained. 75 Fed. Reg. at 35,588. Crystal River residents will secure a substantial portion of these benefits – in the form of fewer asthma attacks, emergency room visits, and premature deaths – once the plant's pollution has been controlled.

In short, the SO₂ NAAQS, a pollution control requirement which Progress Energy does not even acknowledge in its Ten-Year Plan, is highly likely to require Crystal River Units 1 and 2 to retrofit or retire. It is not the only requirement to do so, as we next discuss.

ii. MATS Requirements

In the Clean Air Act of 1990, Congress ordered EPA to investigate hazardous air pollutants emitted by power plants, and to promulgate emissions standards for these pollutants if they threatened public health. 42 U.S.C. § 7412(n)(1). Because coal power plants are dominant sources of mercury, acid gases, and other highly toxic pollutants, EPA was obligated to issue such standards, and finally did so in 2012, 22 years later. See 77 Fed. Reg. 9,304 (Feb. 16, 2012).

The final MATS rule issued in response to this Congressional mandate requires operators to control mercury and acid gases. A smoke stack scrubber can be required to comply with EPA's control requirements. In EPA's analysis of compliance options, it presumed that coal plants emitting more than 2 lbs/MMBtu of SO₂ would have to install scrubbers to comply with the standard. 77 Fed. Reg. at 9,412. Crystal River's air operation permit allows it to emit 2.1 lbs/MMBtu of SO₂, meaning that the MATS rule will likely drive scrubbers installation at the facility. See FL DEP Air Operation Permit 0170003-025-AV at 7. Notably, Crystal River is also the single largest source of mercury in Florida, dumping more than 300 kg of mercury a year into the air around the plant.⁴ On both counts, MATS compliance will, accordingly, be a major focus for the facility.

⁴ See Laura S. Sherman *et al.*, *Investigation of Local Mercury Deposition from a Coal-Fired Power Plant Using Mercury Isotopes*, Environment Science & Technology (2012), attached as Ex. 4.

The Clean Air Act requires that existing sources comply with MATS “as expeditiously as practicable, but in no event later than 3 years after the effective date” of the standard. 42 U.S.C. § 7412(i)(3). Because MATS was promulgated and effective on February 16, 2012, plants must comply by that date in 2015. Although limited compliance extension of up to 1-2 additional years may be available in some limited circumstances, *see id.*, these extensions are disfavored. Accordingly, Progress Energy will have to scrub Crystal River by 2015, or shortly thereafter, or retire the facility, yet it entirely fails to acknowledge this major shift in its operations in its Ten-Year Plan.

iii. Regional Haze Requirements

Since 1977, the Clean Air Act has required EPA and the states to make “reasonable progress” towards restoring natural visibility in Class I areas – which are, essentially, national parks and wildernesses. *See* 42 U.S.C. § 7491. EPA has been very slow to implement this mandatory duty, but its rule to address regional haze, promulgated in 1999, are now being implemented, and Florida is the process of a SIP revision intended to protect Class I areas affected by sources in the state. *See* FL DEP, *Regional Haze Plan for Florida Class I Areas* (Draft as amended May 2012).⁵

The regional haze rule requires that Florida impose controls at all sources of visibility-impairing pollutants to the extent such controls will be needed to make reasonable progress towards restoring natural visibility by 2064. *See* 40 C.F.R. § 51.308(d)(3). The Act and the Rule also require sources which were in existence by August 7, 1977, but which had not been in operation before August 7, 1962, to install “the best available retrofit technology” (BART) to control visibility-impairing pollutants. 42 U.S.C. § 7491(b)(2)(A) & 40 C.F.R. § 51.308(e). FL DEP has determined that the Crist facility is subject to BART. *See* FL Draft Regional Haze Plan at 102.

FL DEP had planned to rely upon a separate EPA SO₂ trading program, the Clean Air Interstate Rule (“CAIR”) to address these requirements, but CAIR has been replaced with a new program which does not control SO₂ in Florida. *See* 77 Fed. Reg. 31,240, 31,248 (May 25, 2012). As such, FL DEP is reanalyzing control options and will have to propose source-specific control requirements for Crystal River Units 1 and 2.

These controls are likely to drive scrubber requirements because, according to FL DEP, SO₂ is the dominant source of visibility-impairing pollution in Florida. *See, e.g.*, FL Draft Regional Haze Plan at 91-92. Progress Energy has indicated as much to FL DEP. In a 2009 BART permit, Progress Energy agreed to retire the Crystal River units by December 31, 2020, as long as the second unit of its proposed Levy County nuclear facility was operating by that time.⁶ Just a few weeks ago, Progress submitted an updated BART implementation plan to FL DEP indicating that, whether or not the Levy County facility comes online, it would either install a

⁵ Available at http://www.dep.state.fl.us/air/rules/regulatory/regional_haze_imp.htm.

⁶ *See* Air Permit No. 0170004-017-AC (Feb. 26, 2009) at 6, attached as Ex. 5.

scrubber (by 2018 or 5 years after Florida's haze SIP is approved), retire the units by December 31, 2020, or limit operations to keep the plant's operations below BART limits.⁷ Because BART determinations will be approved within the next year, it is not at all clear how Progress expects to run its plants until 2020. Retirement within the next few years is the more likely option.

iv. Scrubber Costs

We have calculated the approximate cost of installing and running scrubbers (at 90% efficiency, a level which would likely be required, at a minimum, to meet the requirements of all three relevant rules) at Crystal River Units 1 and 2, based upon the EPA's Integrated Planning Model and a scrubber-focused appendix developed by Sargent & Lundy.⁸ This model predicts that the capital costs for fitting these units with scrubbers as \$486 million. The result (including operational costs) would be a \$36.6/MWh spike in incremental costs. Progress Energy would no doubt seek to pass these costs on to rate-payers if it opted to continue to run the plant, rather than to retire it. These expenditures are extraordinarily high simply in order to extend the lives of these decades-old, expensive, coal-fired power plants.

B. Other Environmental Liabilities

Scrubber costs are not the only liabilities Crystal River faces. There are also pending rules requiring upgrades to coal plant cooling water systems, *see* 76 Fed. Reg. 22,174 (Apr. 20, 2011), better handling and disposal practices for coal combustion waste, *see* 75 Fed. Reg. 35,128 (June 21, 2010), and new treatment systems for liquid effluent discharges,⁹ all of which are likely to be finalized in the next two years. EPA is also updating the NAAQS for particulate matter and for ozone. Moreover, EPA has recently proposed carbon controls for new electricity generating units. *See* 77 Fed. Reg. 22,39 (Apr. 13, 2012). Once finalized, these rules will obligate EPA to extend carbon controls to existing facilities, including Crystal River. *See* 42 U.S.C. § 7411(d). The cumulative impact of these liabilities on Progress Energy will be large and are likely to lend further weight to retirement decisions.

C. Likely Retirements

The cumulative compliance costs from all the rules which apply to Progress Energy's Crystal River units are substantial. Upon reviewing them, and considering the wide availability of more inexpensive power sources, Progress is highly likely to follow industry trends towards coal retirement.

Coal use is falling quickly, in response both to the cost of pollution controls and to national economic trends, including the growth of inexpensive wind power and the boom in shale gas production. As EPA has recently documented, "all indications suggest that very few new coal-

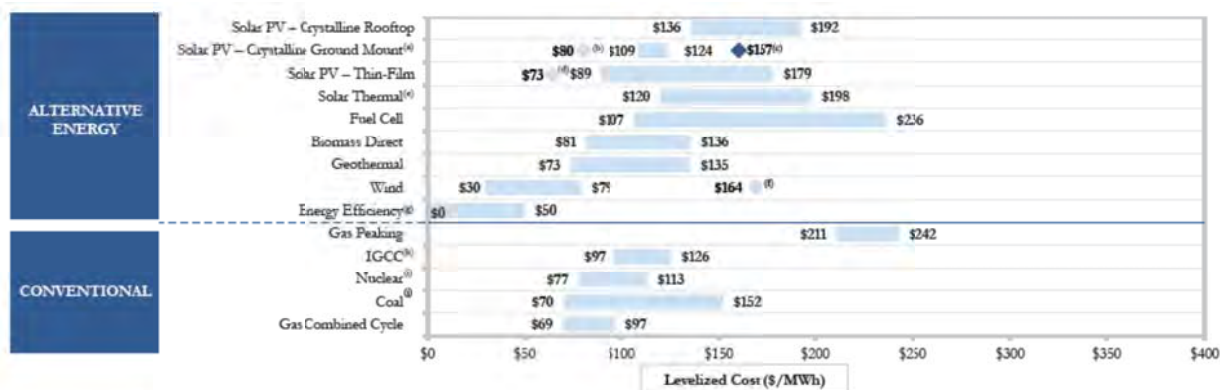
⁷ *See* Ex. 2, *supra*.

⁸ All modeling parameters can be found at <http://www.epa.gov/airmarkt/progsregs/epa-ipm/BaseCasev410.html>.

⁹ *See* EPA's plans for this rule at http://water.epa.gov/scitech/wastetech/guide/steam_index.cfm

fired power plants will be constructed in the foreseeable future.” 77 Fed. Reg. at 22,413, and the Energy Information Administration (EIA) is documenting increasing retirements of existing plants. In particular, the EIA’s Annual Energy Outlook for 2012 forecasts no new unplanned coal capacity through 2020. RIA at 5-5. EIA’s most recent Electric Power Monthly report confirms that this trend continues. Thus far this year, *none* of the 5,627 MW of new units to come online are coal-fired; instead, new capacity additions are largely in renewable power or natural gas. EIA, *Electric Power Monthly June 2012* at Table ES3.¹⁰ Conversely, retirements to date have been predominantly coal-fired units. *See id.* at Table ES4. Utilities across the country have announced thousands of megawatts worth of coal retirements over the last few years.¹¹

Industry-wide levelized cost figures compiled by independent analysts demonstrate why these retirements are occurring. The most recent (2011) edition of Lazard’s Levelized Cost of Energy Analysis,¹² a widely-used reference, shows that energy efficiency, wind, and natural gas combined cycle levelized costs are already below those of coal, as the figure below demonstrates.



Under these circumstances, prudent operators are increasingly deciding not to impose additional costs on their ratepayers by running coal-fired units with costly new pollution technology. Instead, they are opting to retire older units and pursue cleaner, cheaper, energy options. Progress Energy could, and should, decide to follow the same course.

D. Recommended Commission Action

¹⁰ Available at: <http://205.254.135.7/electricity/monthly/pdf/epm.pdf>.

¹¹ *See, e.g.*, Progress Energy Press Release, “Progress Energy Carolinas to retire coal power plant ahead of schedule” (Apr. 1, 2011) (recording the retirement of four North Carolina coal plants), available at <https://www.progress-energy.com/company/media-room/news-archive/press-release.page?title=Progress+Energy+Carolinas+to+retire+coal+power+plant+ahead+of+schedule&pubdate=04-01-2011>; FirstEnergy Press Release, “FirstEnergy, Citing Impact of Environmental Regulations, Will Retire Six Coal-Fired Power Plants” (Jan. 29, 2012) (announcing the retirement of six coal plants in Ohio), available at https://www.firstenergycorp.com/content/fecorp/newsroom/news_releases/firstenergy_citingimpactofenvironmentalregulationswillretiresixc.html; Environment News Service, “Dominion Virginia to Replace Coal Plants with Gas, Nuclear” (Sept. 7, 2011) (documenting retirement of two Virginia coal plants), available at <http://www.ens-newswire.com/ens/sep2011/2011-09-07-091.html>.

¹² Attached as Ex. 6.

Progress Energy has entirely failed to address these environmental compliance issues, and the impacts of retirements at Crystal River upon its system and upon ratepayers. The failure renders the draft plan “unsuitable” as a planning document. See F.S. §186.801. The Commission, “may suggest alternatives to the plan,” *id.*, however, and may classify a plan as suitable upon the submission of “additional data,” see F.A.C. § 25-22.071(5). We respectfully request that the PSC exercise its authority to ensure that Progress’s plan provides adequate data to allow the PSC and the public to address these plant retirements.

Specifically, we submit that the Commission should seek the following information from Progress and require resubmission of a complete plan addressing these submissions:

1. The utility should provide an analysis of all environmental compliance obligations which it will experience at the Crystal River plant. For each requirement, the utility should cite the relevant rule, explain how it is likely to apply to the plant, the likely costs of compliance to the utility and to ratepayers, and the timeline on which compliance will be required. The utility should also document any steps it has taken to address these compliance obligations, and alternative steps it might take. For instance, if the utility anticipates that it will have to install a scrubber to comply with MATS, it should report to the Commission on scrubber installation and operation costs, whether it has contracted to purchase a scrubber and on what timeline, and what other options it has considered. See F.S. § 186.801 (requiring utilities to document “[p]ossible alternatives to the proposed plan”).
2. The utility should provide a comparative analysis of compliance costs and the cost costs of replacing the plant’s power through energy efficiency, demand response, power purchase agreements, new generation facilities, or other means. See F.S. §186.801 (requiring utilities to explain the impact of their plans on fuel diversity and on the need for electric power in their regions). In light of this analysis, the utility should indicate whether it intends to retire any facility, and on what timeline, and the relative costs of retirement versus those of other options. If retirement has not been selected but is being considered, the utility should indicate when the decision will be made.
3. For any facility where retirement is possible, the utility should discuss how it intends to address any reliability issues which may be caused by the retirement. The Commission should play an active role in this regard, as it must maintain reliability of the electric grid. See F.S. § 366.05(7)-(8) (authorizing the Commission to “require reports from all electric utilities to assure the development of adequate and reliable energy grids” and to order “installation and repair of necessary facilities” to address reliability issues”). The Commission has determined that “[r]eserve margins in Florida typically remain well above” relevant minimums through 2020, so system-wide resource adequacy problems are unlikely, but the Commission may still need to address localized reliability issues. If such problems appear to be present, the

Commission should work proactively and transparently with the Florida Reliability Coordinating Council to address them well in advance of any planned retirement.

We appreciate this careful consideration of Progress Energy's environmental compliance options, and any resulting plant retirements, and remind the Commission that such thorough analysis is required to ensure that the Ten-Year Plan complies with legal requirements. We request that the Commission share the results of its inquiry with us and with the public, and request formal notice of the Commission's next steps.

Please contact the undersigned with any concerns or questions.

Sincerely,
s/ Craig Holt Segall
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Exhibit B

Mr. Phillip O. Ellis
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pellis@psc.state.fl.us

CC: Traci Matthews
tmatthew@psc.state.fl.us

Re: Comments on 2013 Ten-Year Plan Submittals

Dear Mr. Ellis and Ms Matthews:

Thank you for accepting these comments on behalf of the Sierra Club and its nearly 27,000 Florida members and on behalf of Earthjustice. We appreciated the opportunity to participate in the Public Service Commission (PSC)'s Ten-Year Plan review process in 2012, and are happy to continue our participation this year.

In last year's comments,¹ we asked that the PSC consider the implications of the retirement of Duke (then Progress) Energy's Crystal River Units 1 & 2, and of Gulf Power's Lansing Smith Units 1 & 2. We advised the PSC that the units had significant environmental compliance obligations which rendered them noneconomic to run in the near-term, but that neither company had included full analysis of that possibility in its submittal.

We appreciate that the PSC addressed these retirement issues in its review of the 2012 plans. *See, e.g., PSC, Review of the 2012 Ten-Year Site Plans ("2012 Review")* at 3. We respectfully submit that that analysis should continue in further depth this year because both utilities have now confirmed our retirement predictions from last year. Duke has committed to retiring Crystal River 1 & 2 for economic reasons and Gulf, though it has not made a final decision, has deferred further environmental compliance work on Lansing Smith and has requested PSC approval for transmission upgrades which would allow for Lansing Smith 1 & 2 to shut down.

In its review, the PSC assumed that the capacity of these retiring units would be replaced by natural gas, which would increase natural gas's share in Florida's electric generation to 62.9% by 2022 (up from 56.7% without the retirements, and from 57.7% in 2011). *Id.* The PSC states that it views "the growing lack of fuel diversity" within Florida as a "major strategic concern." *Id.* at 39. Although we certainly welcome the retirements of these dangerous coal plants, we share this fuel diversity concern: Undue dependence on natural gas leaves the state overly vulnerable to fuel price volatility, even as potential LNG exports and other shifts in the gas market seem likely to increase gas prices in the medium term. For this reason, we strongly suggest that the PSC consider planning scenarios which employ other, less risky, resources to make up some or all of the share of generation now served by the retiring plants.

¹ Attached as Exhibits 1 & 2, for your reference.

In particular, we believe that demand-side management measures, including energy efficiency, other demand response programs, and demand-side renewable energy, can make up a significant portion of any resource gap left by the likely retirements. Increased supply side renewable energy can also increase the diversity of the state's resource mix. Because the PSC will be considering new goals for both Duke and Gulf under the Florida Energy Efficiency and Conservation Act (FEECA) this year, this is a particularly good time to develop the data needed for sensible planning.

I. Coal Retirements

Both Duke and Gulf have confirmed that retirement is likely in the cards for their economically vulnerable plants, though Duke has gone further and confirmed that Crystal River 1 & 2 will certainly retire. Duke appears to be planning to address these retirements largely through adding new generating capacity. Gulf intends to rely on power imports in the near term.

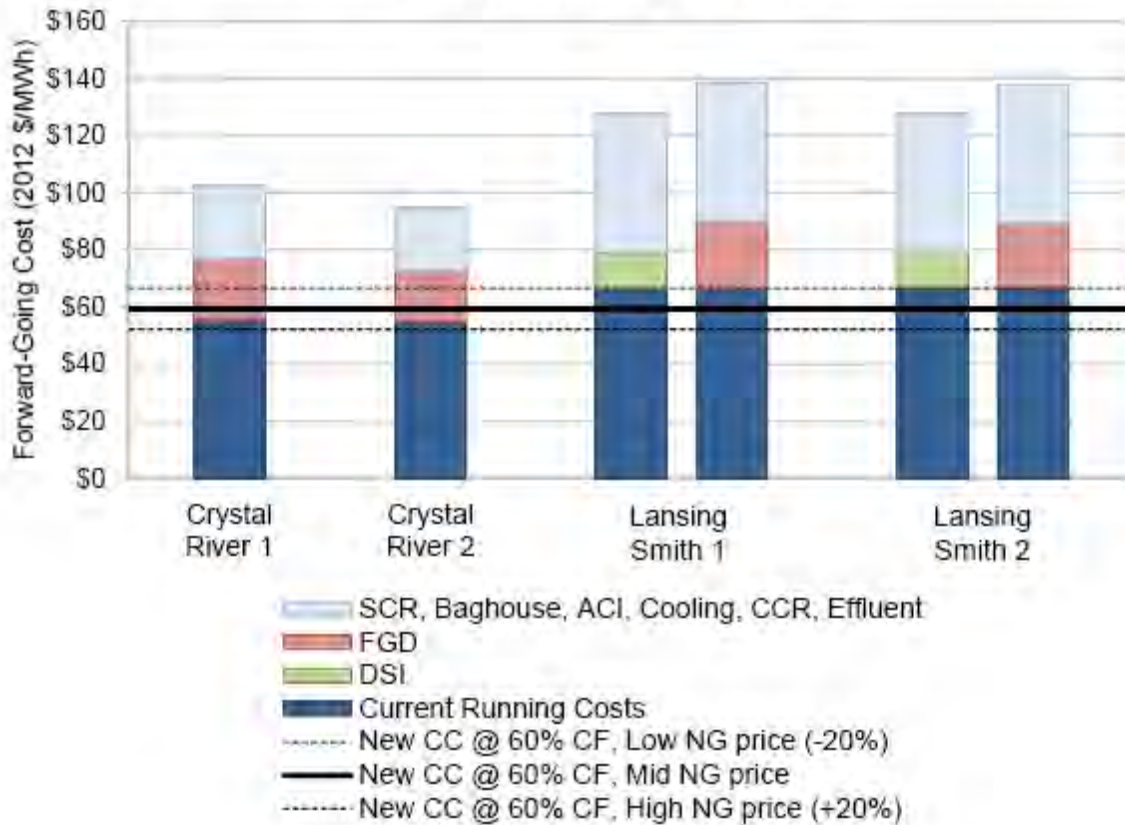
Duke/Progress

Duke has confirmed “expected retirement of Crystal River 1 & 2 in 2016.” Duke TYSP at 3-2. As Duke explains in testimony filed in the Environmental Cost Recovery Docket, the lifecycle projected system cost for retiring units 1 & 2 is far lower than the cost of retrofitting the units to comply with environmental compliance obligations: The difference between the retirement and retrofit scenarios is \$ 1.32 billion in Duke's base case analysis; retrofit is unfavorable only in the extremely unlikely case of very high gas prices and no CO₂ regulation. Direct Testimony of Benjamin M. H. Borsch on Behalf of Progress Energy Florida (Apr. 1, 2013) at 4, Docket No. 130007-EI; *see also* Progress Energy Florida, *Review of Integrated Clean Air Compliance Plan* (Apr. 1, 2013) (“*Duke Compliance Plan*”) at 25-26.

To be sure, Duke has held out the option of making short-term fuel mix adjustments which might allow the units to continue operating, perhaps as long as 2020. *Duke Compliance Plan* at 21. Continued operation would plainly be economically imprudent. As we demonstrated in our comments and workshop presentation on last year's plan, and as the figure below shows, the Crystal River units already verge on noneconomic when compared even against the substantial expense of constructing a new combined cycle natural gas plant to replace their capacity, much less against more sensible options, including demand side programs.²

² This figure is drawn from our 2012 workshop presentation and is based on work by Synapse Energy Economics, using public cost estimates from the Energy Information Administration's cost reporting forms and the EPA's Integrated Planning Model, developed by Sargent & Lundy.

Forward Going Costs of Existing Coal Units and Probable Environmental Controls



Because Crystal River 1 & 2 are uneconomic by almost any measure (as Duke acknowledges), the pertinent question is how best to replace any portion of their 965 MW in nameplate capacity which will be required going forward. (In practice, this lost capacity is smaller: both units have been relatively little used in recent years.) Lost capacity from the 860 MW Crystal River 3, the retired nuclear unit at the site, will also play a substantial role in system planning, of course.

Over the period from 2013 to 2022, Duke expects its firm summer peak demand to grow by 1287 MW, TYSP at 3-7, and increase of just shy of 15% over the next decade, or about 1.5% per year. At present, Duke reports that it intends to make up necessary capacity to match this growth through “planned power purchases from 2016 through 2020 and planned installation of combined cycle facilities in 2018 and 2020 at undesignated sites.” *Id.* at 3-2. According to Duke, these energy imports are likely to grow an additional 1470 MW above its current ~ 1900 MW of imported capacity, *id.* at Schedule 7.1. The addition of a 1307 MW (winter capacity) combined cycle facility in 2018, and a second 1307 MW facility in 2020 then replaces these imports. *See id.* at 3-7, 3-10 – 3-11. This additional capacity is 764 MW greater than the capacity which Duke is losing, leading to a 21% reserve margin by 2022.

As we discuss below, Duke’s strategy of increasing its built generating capacity substantially in response to projected growth, and relying on natural gas generation to do so, is not the prudent one for either the company or for Florida.

Gulf Power

As the figure above indicates, Lansing Smith 1 & 2 are even less economically attractive to operate than the uncontrolled Crystal River coal units. Gulf has not yet committed to retirement publicly, but its filings in this docket and in the Environmental Cost Recovery docket make clear that it is preserving that option.

Specifically, Gulf has requested the PSC approve a \$77 million transmission upgrade project, which it explains is necessary to ensure that Lansing Smith is not a must run unit. Gulf Power, *Third Supplemental Petition of Gulf Power Company Regarding its Environmental Compliance Program*, Docket No. 13007-EI (Mar. 29, 2013) at 8. According to Gulf, these upgrades will allow Plant Smith to run at lower levels or to close, and would be “required if these units retire or are controlled as a result of [the mercury and air toxics rule.]” *Id.* at 8. Gulf, thus, maintains that it intends to “reserve the decision to install ... controls or to retire the two units for a future time when more is known with regard to costs of compliance requirements associated with additional environmental regulations.” *Id.*

Because Gulf Power – unlike Duke – has not shared cost information with the public comparing the cost of controlling versus retiring the plant, *see* Gulf Power, *Environmental Compliance Program Update*, Docket No. 13007-EI (Mar, 29, 2013) at 22-27, it is clear that it anticipates considerable additional compliance obligations at Plant Smith, including additional air, water, and waste rules. *Id.* at 22. Although Gulf has not provided economic analysis of a retirement option, it is clear that operating costs from the mercury rule alone would “greatly increase the variable operating cost of Smith Units 1 and 2,” *id.* at 23, enough so that spending \$77 million on transmission to reduce the operating need for the plant is more economic than continuing to run it, *id.* at 26.

We certainly agree that it is better to run Plant Smith less. The truth, however, is that Plant Smith is not economic to run *at all* under current conditions. It is certainly not economic to run going forward as environmental compliance costs increase. The appropriate course for Gulf Power is to retire the facility, rather than simply building transmission which will allow it to operate the costly plant somewhat less. Its transmission project, apparently, will enable that retirement, which remains an option. We urge the PSC to continue to analyze retirement possibilities.

In this regard, Gulf’s Ten Year Site Plan submission does not clearly discuss all the implications of Plant Smith. It acknowledges, again, that “potential incremental capital expenditures for compliance may be substantial,” Gulf TYSP at 3, but does not yet appear to provide a straightforward retirement analysis. Gulf anticipates 575 MW in summer peak demand growth by 2022 (about 20% growth over that period, or, according to Gulf, a 1.9% annual increase over the next decade). *See* Gulf TYSP at Schedule 3.1.

Gulf’s plan indicates that capacity additions are not necessary to manage this projected growth. Gulf reports that a power purchase agreement (PPA) which it has signed with Shell Energy for use of 885 MW of capacity from an existing gas combined cycle plant will meet its needs through 2023, after which it will construct additional in-system capacity. *Id.* at 2-3. For this reason, the PSC’s projection last year that Lansing Smith’s retirement will lead to gas generation increases in Florida appears to be incorrect in the near term. As with Crystal River’s retirement, however, we believe that demand-side

options and other non-gas resources should be emphasized to meet any capacity needs that eventually arise.

II. Implications for the Ten-Year Plan and FEECA Goal-Setting Processes

Because the PSC will shortly move fully into the FEECA goal-setting process for the next five years, this is a particularly appropriate time to consider alternate futures for the Duke and Gulf power networks, with an emphasis on resources which the Legislature designed FEECA to encourage. The cost of adding new fossil capacity will almost always be higher than the cost of demand-side measures. The savings possible through an efficiency-focused strategy, coupled with efficiency's potential to help Florida avoid the undue dependence on natural gas which the PSC is seeking to avoid, argue strongly for a careful analysis of these questions in this year's Ten-Year Site Plan Review.

The Legislature has determined that it is "critical to utilize the most efficient and cost-effective demand-side renewable energy systems and conservation systems in order to protect the health, prosperity, and general welfare of the state and its citizens." Section 366.81, F.S. A study commissioned by the Legislature this past year confirmed these findings, concluding that "FEECA appears to provide a positive net benefit to ratepayers." Galligan *et al.*, *Evaluation of Florida's Energy Efficiency and Conservation Act* (Dec. 7, 2012) ("FEECA Study") at 9.

Despite these benefits, the PSC has, in the past, opted to suspend further program expansion for Duke and FPL, on cost grounds. *See, e.g., Re: Progress Energy Florida, Inc.*, Docket No. 1000160-EG, 2001 WL 3659327 (Aug. 6, 2011). The PSC should revisit this position during this year's goal-setting process in view of the positive findings of the legislative study, and the pressing need to address the retirements of vulnerable coal units in ways that best protect the ratepayers from further risk from fossil fuel price shifts and regulatory uncertainty. Ratepayers will face costs associated with new capacity and loss of fuel supply diversity which are far greater than those imposed by demand-side programs --- programs which the legislative study have determined have net *benefits*.

In particular, the PSC should view with skepticism Duke's proposal to construct 2614 MW of natural gas generation in just the next few years in order to cope with a 1.5% annual average growth rate in its predicted demand. Initially, Duke has a history of significant positive errors in its forecasts. As the PSC explained in its 2012 Ten Year Site Plan Review, Duke overestimated net energy for load forecasts by 11.36% on average between 2007 and 2011, and by 6.17% between 2006 and 2010. *2012 Review at 19*. Certainly the recession contributed to some of this overage, but the size of the error should give the PSC pause.

More importantly, however, the 1.6% demand growth rate which Duke forecasts, even if accurate, is within the range of load growth rates which demand-side management can address. According to the legislative FEECA study, many states require annual reductions far greater. *See FEECA Study at 177-180*. States requiring savings of at least 1% a year, according to that study, include Arizona, Indiana, Maine, Maryland, Michigan, Minnesota, New York, Ohio, and Texas, with many other states not far behind (still other states, including California, are listed as having very large reduction goals, but a percentage reduction is not specified). *See id.* Such reduction rates would entirely offset Duke's projected load growth, obviating the need for much, if not all, of its projected capacity needs in light of the Crystal River retirements.

Duke plainly has the potential to greatly expand its programs. It reports that only 25% (405,000 customers out of 1.6 million) take part in its demand response program, for instance. Duke TYSP at 1-1. This low participation is likely one reason that Duke is well below its FEECA goals for summer MW and annual GWh reductions – missing the annual target by more than 60%. *See* PSC, *Annual Report on Activities Pursuant to [FEECA]* (Feb. 2013) at 19. Duke has told the PSC that it was unable to reach its performance levels because “of the Commission decision to not approve a new DSM plan” for the company. *Id.* at 20. Thus, if the PSC engages with Duke to approve an improved plan, Duke may well be able to increase efficiency programs sufficiently to greatly decrease its capacity needs.

This analysis also applies to Gulf. Although Gulf does not plan new capacity for the next decade, it, too, has potential for further improvements, failing to meet even its modest existing FEECA goal by 12%. *Id.* at 19. If Gulf were performing at the level of nationally leading utilities – saving more than 1.5% of its demand per year – it could likely avoid those projected capacity additions.

Such enhanced performance could help Florida, as a whole, to meet the Legislature’s directive in FEECA. At present, Florida ranks in the bottom half of the states with regard to energy efficiency. *See* American Council for an Energy-Efficient Economy, *State Scorecard 2012* (ranking Florida #29).³ The coal retirements before the PSC provide a strong incentive to do better.

We understand that the PSC will be conducting substantial analysis on this front during its FEECA goal-setting process, *see* Section 366.82, F.S., which requires careful consideration of the “full technical potential” of demand-side programs. We suggest that the PSC conduct that analysis in tandem with its Ten-Year Site Plan review, valuing demand-side programs as a resource which can be used to address capacity and energy issues arising from the coal retirements announced or likely in the site plan docket. Thus, in its 2013 Ten-Year Site Plan Review, the PSC could profitably evaluate the several different scenarios post-retirement, including scenarios in which capacity is replaced with more aggressive demand side measures. Other scenarios should also, of course, explore the potential of other energy sources, including enhanced in-state renewables, including solar, and out-of-state PPAs for renewable (and hence zero fuel cost) energy. In the FEECA process, meanwhile, the PSC can consider the costs and benefits of such measures, especially as compared with costly and risky new gas capacity. The two processes can and should reinforce each other as the PSC works to find ways to minimize risks and costs to ratepayers.

III. Conclusion

Last year, we cautioned that a significant amount of coal-fired capacity in Florida was set for retirement. That process has continued. To manage any ratepayer risk from these retirements and the possible over-dependence on natural gas which they may promote, the PSC should emphasize demand-side management options as alternatives to gas-fired capacity. We look forward to working with the Commission to ensure that Florida ratepayers secure healthier air and a more reliable and efficient electricity system.

Sincerely,

³ Available at: <http://aceee.org/energy-efficiency-sector/state-policy/aceee-state-scorecard-ranking>.

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Exhibit C

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Re: Supplemental Information Following 2013 Ten-Year Site Plan Workshop

Dear Mr. Ellis and Ms. Matthews:

Thank you for the opportunity to present to the Commission at the September 25, 2013, Ten-Year Site Plan Workshop. At the Workshop the Commissioners raised a number of questions in response to our presentation and we agreed to provide supplemental information to more fully address those questions. This letter transmits and explains that supplemental information.

As discussed at the Workshop, the information supports deferring plan approval until the utilities provide a comparative analysis of the costs and quantified risks of all relevant energy resources, including supply side and demand side. Substantiating the cost-effectiveness of planned investments in this way is squarely within the utilities' ten-year site plan data requirements. See F.A.C. § 25-22.072 (incorporating by reference Form PSC/RAD 43-E (11/97), requiring evidence of "lowest cost possible" planned energy). Yet the utilities' plans lack the requisite comparative analysis of the costs and risks of the various energy resources available to Florida. Without this analysis by the utilities, the Commission cannot meaningfully review the plans for enumerated statutory criteria, such as "possible alternatives to the proposed plan," nor can the Commission evaluate and plan for risks like "disrupted energy supplies or unexpected prices surges." F.S. § 186.801 (citing State Comprehensive Plan, F. S. § 187.201). For these reasons, the information herein supports the Commission deferring plan approval, including approval of planned new gas-burning capacity, until the utilities provide the missing comparative cost-risk analysis to substantiate the cost-effectiveness of their proposed investments.

Moreover, the Sierra Club urges the Commission to follow the regulatory best practice of making the comparative cost-risk analysis available for public comment. Doing so would provide the Commission with a fuller critique of the options for addressing pressing issues, including the need to: (1) plan for significant coal and nuclear retirements; (2) appropriately minimize Florida's exposure to natural gas price shocks and supply disruptions; (3) evaluate and seize opportunities to pursue cost competitive energy resources; and 4) hedge against the costs and risks of fossil fuel-burning generation capacity.

I. A Comparative Analysis of Costs and Quantified Risks of All Relevant Resources (Supply Side and Demand Side) Is Critical for Prudent Resource Planning.

Prudent resource planning minimizes costs and risks. To minimize not just the present value of revenue requirements—alone, a limited focus of resource planning—but also risk, planners generally evaluate a wide range of scenarios (not just the scenario deemed most likely, the "reference

case”). Planners do this through a number of different methods. Many planners use probabilistic modeling and sensitivity analyses for inputs including but not limited to: load growth, fuel prices, electricity spot prices, market structure, environmental regulations, and other risk factors. In addition, some planners also rely on other analytic aids, including market reports, requests for proposals, and stakeholder feedback. This section addresses the Commissioners’ questions about planning for cost and risk with examples and explanations of emerging best practices.

a. CERES Report—Guidance Primarily for Commissions

Practicing Risk-Aware Electricity Regulation: What Every State Regulator Needs to Know offers guidance that is especially relevant to states like Florida that are “facing substantial coal generation retirements and evaluating a spectrum of resource investment options.” Ron Binz & CERES, *Practicing Risk-Aware Electricity Regulation: What Every State Regulator Needs to Know* (2012) (“*Risk-Aware*”) at iii, Ex. 1. Like other reports discussed below, this report reviews existing practices and makes recommendations for valuing and selecting plans to minimize risk. What sets this report apart, and why the Sierra Club has highlighted it, is its focus on the role of state regulatory utility commissions in the planning process.

Risk-Aware urges commissions to proactively identify and address risks. *See, e.g., id.* at 14. This includes gathering information on all relevant future conditions and investment alternatives, not only the conditions and investments identified by the utilities. *Id.* at 46. Further, by fostering transparency and stakeholder engagement throughout the planning processes, commissions are able to build trust and enhance understanding of energy options among all interested parties. *Id.* at 11.

During the Workshop, Commissioner Graham expressed interest in risk assessment methodology. *Risk-Aware* shows one way that planners can systematically assess risk. The report draws on decades of relevant energy regulation and finance experience to develop a composite cost-risk analysis showing the relative cost and relative risk among a wide range of investment alternatives (e.g., nuclear, natural gas combined cycle, solar, efficiency programs). *See id.* at iii, Figures 14 and 15. Spurring commissions to develop tailored assessments like this for their respective jurisdictions, *see id.* at 34, *Risk-Aware* describes its risk assessment methodology in a step-by-step fashion. First, *Risk-Aware* examines twenty-two resources across seven risk categories, wherein the report describes and then quantifies the risks associated with each resource. *See id.* at 30 – 34; *see also id.* at Figures 13, 16. Next, *Risk-Aware* establishes composite risk indices for each resource. *Id.* at 34 – 36. Finally, *Risk-Aware* compares relative risk and relative cost. *Id.* at Figure 17.

b. Nicholas Institute Report—Risk Assessment Made Easier

Least-Risk Planning for Electric Utilities, recently published by the Nicholas Institute for Environmental Policy Solutions at Duke University, presents another relatively easy way to address risks in resource plans. *See* David Hoppock & Patrick Bean, *Least-Risk Planning for Electric Utilities* (2013) (“*Least-Risk Planning*”), Ex. 2. *Least-Risk Planning* emphasizes that “**evaluating a wide range of potential scenarios [such as 10 to 15] that fully capture the realistic range of all relevant sources of uncertainty is critical.**” *Id.* at 11 (emphasis added). Picking up where traditional scenario analysis leaves off, *Least-Risk Planning* suggests that modeling outputs like production costs and fixed costs can be used to compare the costs and quantified risks of investment alternatives. *Id.* at 14. *Least-Risk Planning* illustrates how, with three, then four investment alternatives (deliberately simplified examples), it reviews the steps by which a utility would identify trends, risks, and the hedge value of

energy efficiency programs and renewable resources like wind and solar. *Id.* at 8, 14. *Least-Risk Planning* maintains that utility planners and state regulators would find this method “attractive” (no new tools or modeling required), “sensible” (not too pessimistic or too optimistic about risks), and complementary to traditional scenario analysis. *Id.* at 5, 6. Indeed, some utilities like the Tennessee Valley Authority have adopted a similar risk assessment method already. *Id.* at 6 (citing 2011 TVA Integrated Resource Plan).

c. Regulatory Assistance Project & Synapse Report—A Survey of Several States

Best Practices in Electric Utility Integrate Resource Planning, recently commissioned by the Regulatory Assistance Project and prepared by Synapse Energy Economics, reviews emerging best practices in several states’ resource planning processes. See Bruce Biewald & Rachel Wilson, *Best Practices in Electric Utility Integrate Resource Planning* (2013) (“*Best Practices*”), Ex. 3. To be sure, many other reports examine resource planning best practices, and *Best Practices* cites some of these reports. However, the strength of *Best Practices* is its breadth and depth of coverage, as it reviews the practices of several states from across the Nation and prepares case studies on three states in particular—Arizona, Colorado, and Oregon.

Overall, *Best Practices* recommends active commission oversight, stakeholder engagement, and transparency. See *id.* at 26, 27. For example, commissions in Arkansas and Hawaii promote transparency and robust stakeholder engagement through their planning rules. *Id.* at 26, 27. The Kentucky and Colorado commissions also allow interveners to file, and require utilities to respond to, written interrogatories and comments. *Id.* at 21, 27. In turn, the supplemental information from the interveners and utilities supports these commissions’ planning oversight. *Id.*

Best Practices stresses transparent modeling because “[m]odeling in general is only as good as the *input assumptions* used to generate the portfolios.” *Id.* at 25. Specifically, the report suggests: “A proper [resource plan] will include discussion of the inputs and results, and appendices with full technical details. Only items that are truly sensitive business information should be treated as confidential, because such treatment can hinder important stakeholder input processes.” *Id.* at 32. Further, the best practice for commissions is to “take an active role in assessing the validity of inputs used by the utilities in their filings, the resulting outcomes, and whether these are consistent with both the [relevant state] rules and the state’s energy policies and goals.” *Id.* at 27. Limiting transparency hinders a commission’s ability to perform this oversight. See, e.g., *id.* at 25.

Best Practices also offers several insights on how to optimize modeling results. The first insight is to avoid “inadvertently exclud[ing] combinations of options that deserve consideration.” *Id.* at 31. This could happen when utilities define (potentially biased) future resource portfolios, rather than deferring to models to select the portfolios. See *id.* Alternatively, this could happen when “users constrain optimization models so that a model may not, given the cost, select the quantity of a specific resource that [the user] may want,” such as where a utility may limit the amount of a resource that a model can consider—for instance, limiting investments in energy efficiency to the minimum level that a state policy may require, rather than allowing the model to consider larger investments in energy efficiency that the model may otherwise identify as the least-cost, least-risk means of addressing energy needs. *Id.* at 27. Against such defects, the report offers this cure:

The best [resource plans] create levelized cost curves for demand-side resources that are comparable to the levelized cost curves for supply-

side resources. ... By developing cost curves for demand-side options, planners allow the model to choose an optimum level of investment. So if demand-side resources can meet customer demand for less cost than supply-side resources, as is frequently the case, this approach may result in more than the minimum investment levels required under other policies.

Id. at 29 (emphasis added) (quoting State and Local Energy Efficiency Action Network, *Using Integrated Resource Planning to Encourage Investment in Cost-Effective Energy Efficiency Measures* (2011), at 6, Ex. 4).

Best Practices also identifies the risks that are commonly addressed by scenario or sensitivity analyses in resource plans. These include: “fuel prices (coal, oil, and natural gas), load growth, electricity spot prices, variability of hydro resources, market structure, environmental regulations, and regulations on carbon dioxide (CO₂) and other emissions.” *Best Practices* at 5. The case studies on Arizona, Colorado, and Oregon illustrate how resource plans incorporate risk, as discussed below.

- ◊ **Arizona:** During the state’s 2012 planning process, the Arizona utility modeled low and high scenarios for what it deemed to be “major cost inputs,” including: natural gas prices, CO₂ prices, production and investment tax credits for renewable resources, energy efficiency costs, and monetization of SO₂, NO_x, PM, and water. *See id.* at 16. During the modeling, the utility monitored certain metrics to compare and evaluate potential resource investment alternatives. *Id.* at 16-17. In addition to revenue requirements, these metrics included: fuel diversity, capital expenditures, natural gas burn, water use, and CO₂ emissions. *Id.* at 16. Arizona’s final 2012 resource plan and materials from five stakeholder meetings are available at www.aps.com/en/ourcompany/ratesregulationsresources/resourceplanning/Pages/resourceplanning.aspx.
- ◊ **Colorado:** During the state’s 2011 planning process, the Colorado utility evaluated its baseline case and eight alternative cases under several sensitivity scenarios, altering the price of CO₂ emissions, renewable tax incentives, natural gas prices, and level of sales. *See Best Practices* at 19-22. Notably, per an intervenor’s recommendation the Colorado Public Utilities Commission asked the utility to adopt higher energy efficiency goals. *Id.* at 27 (citing Colorado Public Utilities Commission, Decision No. C11-0442; Docket No. 10A-554EG (2011)). The utility incorporated the new goals into its calculation of resource need in subsequent modeling. *See Public Service Company of Colorado, 2011 Electric Resource Plan* (2011), available at www.xcelenergy.com/About_Us/Rates_&_Regulations/Resource_Plans/PSCo_2011_Electric_Resource_Plan.
- ◊ **Oregon:** Of the three case studies, Oregon’s planning process was the most comprehensive. *Best Practices* at 23. During the state’s 2012 planning process, the Oregon utility defined 67 input scenarios including: alternative transmission configurations, CO₂ price levels and regulation types, natural gas prices, and renewable resource policies. *Id.* at 24. Sensitivity cases examined additional incremental costs for coal plants, alternative load forecasts, renewable generation costs and incentives, and demand-side management resource availability. *Id.* Top resource portfolios were identified through a combination of lowest average portfolio cost and worst-case portfolio cost resulting from 100 simulation runs. *Id.* Final portfolios were selected after considering such criteria as risk-adjusted portfolio cost, 10-year customer rate impact, CO₂ emissions, supply

reliability, resource diversity, and uncertainty and risk surrounding greenhouse gas and renewable portfolio standard policies. *Id.*; *see also* PacifiCorp, 2011 *Integrated Resource Plan*, available at www.pacificorp.com/content/dam/pacificorp/doc/Energy_Sources/Integrated_Resource_Plan/2011IRP/2011IRP-MainDocFinal_Vol1-FINAL.pdf.

II. The Commission Should Not Approve the Utilities’ Ten-Year Site Plans: The Commission Cannot Determine What the Reliable, Least-Cost Energy Mix Is Because the Utilities’ Plans Are Missing the Requisite Comparative Analysis of Costs and Quantified Risks of All Relevant Energy Resources, Including Supply Side and Demand Side.

Commissioner Brown requested clarification of the Sierra Club’s recommendations for further action by the Commission. In short, we recommended that the Commission defer approval of the plans until the utilities provide the requisite comparative analysis of the costs and quantified risks of all relevant energy resources, including supply side and demand side. As discussed below, the missing analysis is legally required, and it will put the Commission—and the public—in a better position to ensure low-cost, low-risk power for Florida, and to understand the reasoning behind the investments that are ultimately selected. Moreover, subjecting such analysis to public notice and comment will provide the Commission with a fuller critique of the strengths and weaknesses of the plans.

a. The Utilities’ Ten-Year Site Plans Must Provide an Analysis of the Relative Cost and Relative Risk of All Relevant Energy Resources that is Sufficient to Allow the Commission to Classify the Plans as Suitable or Unsuitable, Suggest Alternatives to the Plans, and Ensure a Reliable, Least Cost Power Supply for Florida.

Ten-year site plans are Florida’s primary vehicle for collecting information about, and preparing for future conditions related to, the state’s power supply. The Commission established the legally required data requirements in Form PSC/RAD 43-E (11/97), “Electric Utility Ten-Year Site Plan Information and Data Requirements” (“Form”). *See also* F.A.C. § 25-22.072 (incorporating the Form by reference). Notably, the Form requires utilities to describe their planning assumptions, modeling methods, and outcomes. *See* Form at 4-6 (enumerating these requirements in the section titled “Other Planning Assumptions and Information”). Moreover, each plan must “provide sufficient information to assure the Commission that an adequate and reliable supply of electricity at the lowest cost possible is planned for the state’s electric needs.” *Id.* at 4. Here, cost should be considered over the life of the investment, and to ensure a robust understanding of potential costs, the plans should quantify the risks that could materially affect the costs, including factors identified above that are routinely considered by other commissions, such as fuel price surges and regulatory risks.

This reading of cost is supported by the governing Florida statutory provisions, F. S. § 186.601 (Ten-Year Site Plans) and § 187.201(11)(b)(10) (State Comprehensive Plan), which call for such circumspect planning. Under mandatory statutory criteria, the Commission must review each utilities’ ten-year site plan for, among other things, “possible alternatives to the proposed plan,” and must evaluate and prepare for risks like “disrupted energy supplies or unexpected price surges.” *See* F.S. § 186.801 (citing State Comprehensive Plan, F.S. § 187.201). Without a comparative cost-risk analysis, the Commission lacks the prerequisite information to perform this statutorily required

planning oversight. Moreover, as discussed at the Workshop and in our comments, the missing analysis hinders the Commission’s ability to fulfill its over-arching statutory duty to maintain “sufficient, adequate, and efficient service” and “fair and reasonable rates” for all Floridians. *See, e.g.*, F.S. § 366.03; *see also* Sierra Club, Comments on 2013 Ten-Year Plan Submittals Comments (2013) (“Sierra Club Comments”), Ex. 5.

b. The Utilities’ Ten-Year Site Plans Fail to Provide the Required Analysis of the Relative Cost and Relative Risk Among the Relevant Energy Resources Available to Florida.

Our comments and Workshop presentation demonstrated how two utilities in particular have failed to include sufficient cost and risk information in their plans. To recap, Gulf Power and Duke Energy Florida’s plans do not show the following:

- ◇ Alternative load forecasts, accounting for significant positive errors in historic forecasts;
- ◇ Implications, costs, and expected timelines of upcoming retirement/retrofit decisions;
- ◇ Alternative investment scenarios beyond the selected “reference case” or “base expansion case”;
- ◇ A sensitivity analysis of fuel price, carbon price, supply disruptions, and other risks;
- ◇ A direct comparison of levelized cost curves for demand-side and supply-side resources;
- ◇ A direct comparison of the relative risk among all potential energy resource investment; and
- ◇ A full accounting of energy efficiency and renewable resource options, including (but not limited to) renewable energy contracts and self-build options for utility scale solar systems.

Without the missing analysis, the Commission cannot meaningfully verify whether the proposed investments—such as Duke’s “planned power purchases from 2016 through 2020 and planned installation of combined cycle facilities in 2018 (1,307 MW, winter capacity) and 2020 (another 1,307 MW) at undesignated sites,” Progress (now Duke) Energy Florida TYSP at 3-2—do in fact provide reliable, least-cost power.

c. The Commission Should Require the Utilities to Conduct a Comparative Cost-Risk Analysis and Subject the Analysis to a Public Comment Period.

As discussed at the Workshop, Florida’s energy system is at a crossroads and planning presents a critical opportunity to enhance the understanding of energy options among all interested parties. The Sierra Club urges the Commission to require the utilities to conduct a comparative cost-risk analysis and invite interveners’ comments on this analysis. Doing so now would help the Commission address pressing issues, including the need to: (1) plan for significant coal and nuclear retirements; (2) appropriately minimize Florida’s exposure to natural gas price shocks and supply disruptions; (3) evaluate and seize opportunities to pursue cost competitive energy resources; and 4) hedge against the costs and risks of fossil fuel-burning generation capacity.

i. The Utilities Should Provide a Full Retirement/Retrofit Analysis of Existing Generation Capacity to Ensure an Accurate and Meaningful Cost-Risk Comparison of Energy Options Going Forward.

While Gulf Power and Duke Energy Florida have confirmed the Sierra Club’s retirement predictions from last year, we expect (but have not seen plans that address) more coal-burning unit retirements within the planning horizon, such as Lansing Smith 1 and 2. As we have seen, the Federal

Government has and may well continue to ratchet down power plant emissions under the Clean Air Act to address public health and welfare concerns. These regulations could impact the economic viability of certain fossil-fuel burning capacity in Florida. Indeed, the Florida Reliability Coordinating Council (FRCC) has acknowledged “potential multiple generation retirements from the same site, starting as early as April 2015.” FRCC, 2013 Load & Resource Reliability Assessment Report (2013). In any event, we continue to urge the Commission to require the utilities to provide a straightforward retirement/retrofit analysis, including decommissioning costs and timelines for existing generating capacity, as well as their implications for the utilities’ generating needs. This information is critical for developing an accurate cost-risk comparison of all relevant energy resources available to Florida going forward.

ii. The Utilities Should Identify and Analyze Options to Minimize Florida’s Exposure to Natural Gas Price Shocks and Supply Disruptions.

One of the utilities’ plans most troubling defects is their unwarranted reliance on more natural gas imports—channeling money out-of-state and worsening Florida’s exposure to natural gas price shocks and supply disruptions. As the Sierra Club has stressed, nowhere do the plans substantiate that proceeding this way is cost effective or necessary. For example, Duke and Gulf Power forecasted load growth near 1% per year over the planning horizon, which is well within the range that demand-side management could address at a lower cost. *See* Sierra Club Comments.

Moreover, natural gas-burning capacity is risky in ways that alternative (zero fuel cost) energy is not. Here, we recap three sources of risk. First, the U.S. Energy Information Administration (EIA) dramatically revised downward its estimates of the domestic shale gas reserves, by 42% nationally, and by 66% in the Marcellus. *See* EIA, *Advanced Energy Outlook 2012 Early Release Overview* (2012) at 9. Second, the natural gas industry is moving quickly to export liquefied natural gas. *See, e.g.*, Federal Energy Regulatory Commission, *Proposed/Potential North America LNG Import/Export Terminals*, available at www.ferc.gov/industries/gas/indus-act/lng/lng-proposed-potential.pdf (last visited October 11, 2013). Both of these factors—declining supply and increasing demand at international market prices—create a risk of materially higher natural gas prices in the future. To be sure, numerous studies examine the implications of natural gas exports, and at the Workshop we highlighted EIA’s higher risk case predicting that rapid expansion of gas exports could drive up domestic natural gas prices at the wellhead by as much as 54% (\$3.23/Mcf) by 2018. Whether or not this particular rate of price increase comes to pass, it certainly suggests that the Commission would benefit from a transparent analysis of price shock risks before it approves further natural gas generation in Florida—an analysis which is lacking in the plans.

Third, Florida’s limited natural gas transport infrastructure raises the specter of supply disruptions. Planning should address such risks and should include the costs of building additional infrastructure, such as additional natural gas pipelines, in evaluating energy investment options. For all these reasons, the Commission should instruct the utilities to identify in their cost-risk comparisons all relevant energy resource investment options that minimize Florida’s exposure to natural gas prices shocks and supply disruptions.

iii. The Utilities Should Identify and Justify How They Value and Select Alternative Energy Resources, Including the Value that Renewable Energy And Energy Efficiency Provide For Capacity and Energy Needs,

and As A Hedge Against the Risks and Costs of Further Natural Gas Generation.

As we identified at the Workshop, alternative energy investments are low-cost, low-risk, and compare favorably to conventional generation. The Commission would benefit from a full analysis of such resources in the utilities' ten-year site plans. Duke Energy Florida's plan has served as our example of just how little information the utilities have provided on alternative energy investments. This dearth of information prevents the Commission from verifying that cost-effective alternative energy investments (demand side and supply side) have been appropriately valued and incorporated into the plans. Duke's plan states that by March 2013 the utility's ongoing Request for Renewables logged over 310 responses—responses that are not disclosed or described in Duke's plan. *See* Duke TYSP at 3-21. Duke's plan also omits the option of self-building renewable energy projects. The plan plainly lacks the requisite comparative cost-risk analysis, and even lacks the statutorily required "statement describing how the production and purchase of renewable energy resources impact the utility's present and future capacity and energy needs." *See* F.S. § 186.801(2)(j).

The Commission should not approve such defective plans, especially since the 2012 legislative study determined that Florida has a track record of cost-effective alternative energy investments that have yielded net benefits to Florida's ratepayers. *See* Galligan et al., *Evaluation of Florida's Energy Efficiency and Conservation Act* (Dec. 7, 2012) ("*FEECA Study*") at 9, 10. Instead, we continue to strongly recommend that the Commission instruct the utilities to provide analyses that identify: (1) how they valued and selected alternative energy resources, (2) how these resources impact the utilities' capacity and generation needs, and (3) how the utilities have captured the hedge value of alternative energy resources against the risks associated with further expansion of fossil fuel-burning generation, especially of natural gas.

III. The Commission Should Demand a Clear and Thorough Analysis of the Comparative Costs and Risks of Energy Resources, Including Enhanced Energy Efficiency and Renewable Energy Investments, Because in Today's Market, the Analysis May Well Show that it is More Prudent to Invest in Energy Efficiency and Renewable Energy than Natural Gas.

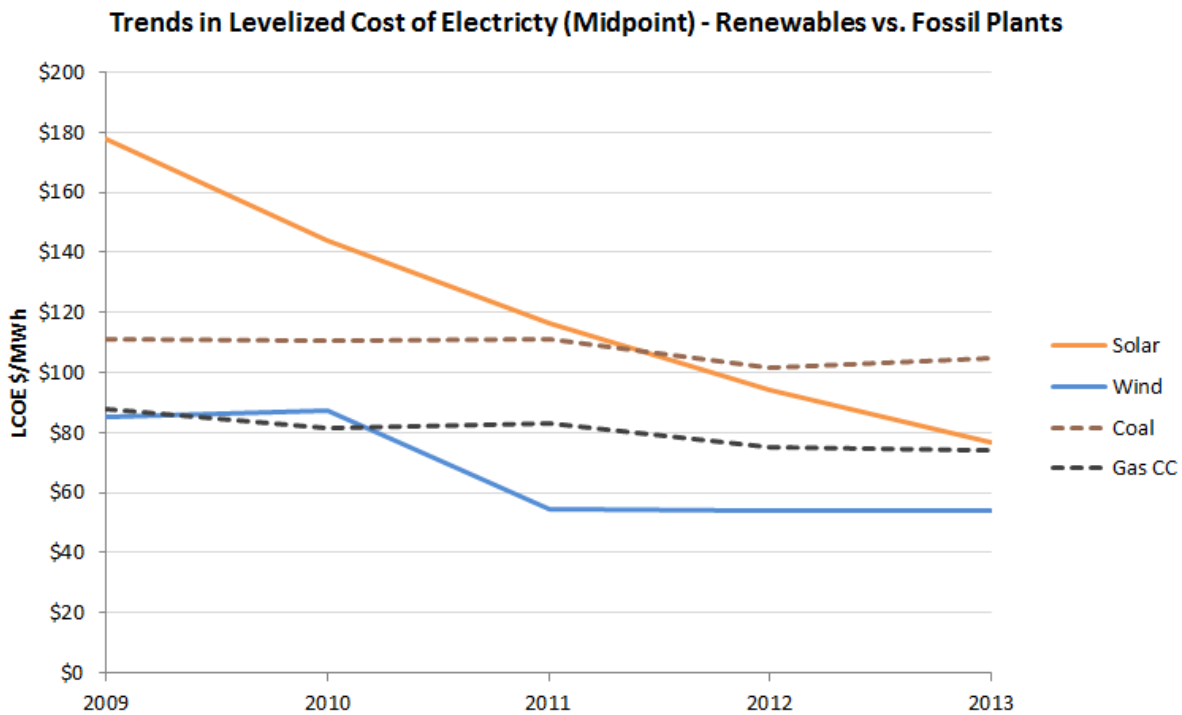
Although at the Workshop we spent a considerable amount of time addressing risks of further natural gas development, the other half of a cost and risk analysis is cost. As discussed at the Workshop, energy markets—and the costs of various types of energy resources, both supply and demand—are rapidly changing. Renewable energy generation continues to plummet in price, while coal and nuclear generation continue to increase, and natural gas is showing clear and increasing signs of significant upward pressure. In this mix, energy efficiency continues to be by far the cheapest energy resources in the market today.

As we noted at the Workshop, there are any number of ways to evaluate such costs. Below we identify some of the more common means of evaluating costs, and reiterate information indicating what those costs are in today's market.

a. Levelized Cost of Electricity Is One Common Comparative Metric of The Costs of Energy Resources.

Levelized cost of electricity (LCOE) is one key metric for comparing resource costs, and one commonly cited source of LCOE data is the international advisory and asset management firm Lazard Ltd, *Lazard’s Levelized Cost of Energy Analysis—Version 7.0* (2013) (“*Lazard’s Analysis*”). At the Workshop we emphasized that national LCOE data can reveal cost trends, while resource planning best practice is for utilities to create (generally using models) levelized cost curves for demand-side resources that are comparable to the levelized cost curves for supply-side resources available within the context of the regional grid. See, e.g., State and Local Energy Efficiency Action, *Using Integrated Resource Planning to Encourage Investment in Cost-Effective Energy Efficiency Measures* (2011) at 7.

Since we have not seen evidence of such side-by-side levelized cost comparisons in the ten-year site plans, we have cited *Lazard’s Analysis*: Energy efficiency programs average \$0-\$50 MWh, or better, since these figures do not fully account for the opportunity cost of foregone consumption due to demand response. See *Lazard’s Analysis* at 4. Renewable resources are becoming increasingly cost competitive. Utility-scale solar photovoltaic systems are approaching “grid parity” without tax subsidies and may currently reach “grid parity” under certain conditions. *Id.* As discussed at the Workshop, the graph reproduced below plots Lazard’s levelized cost of electricity data from 2009 to 2013 to show cost trends of renewable resources like solar and wind versus conventional fossil fuel-burning resources like coal and natural gas.



Source: Lazard 2009-2013.

The trends shown in this graph favor investments in renewable resources like wind and solar because they are already cost-competitive with conventional generation resources like coal and gas, and their prices keep falling fast—thanks largely to technological advances, such as larger wind turbines and cheaper components for solar-power arrays. As we have noted, the opposite is true for

fossil fuel-burning generation; costs are generally increasing due to increasingly stringent pollution controls, fuel price volatility, and supply disruption risks.

a. Given Rapidly Changing Electricity Markets, Requests for Proposals are a Common, But Not Exclusive, Way of Identifying Resource Costs.

Commissioner Balbis requested clarification of the Sierra Club's suggestion of using requests for proposals (RFPs) to test resource costs for ten-year site planning purposes. In short, we suggested that, as an initial step, the Commission should obtain from the utilities more information about the renewable energy bids that they received in response to existing RFPs. Duke's plan, for example, states that the utility's ongoing Request for Renewables returned over 310 bids by March 2013. Bids like these are a potential trove of cost information that would enhance the understanding of energy options among all interested parties. *See* Duke TYSP at 3021. Indeed, the 2012 legislative study found that Florida jurisdictional utilities are missing opportunities to share information and best practices on saving energy. *See FEECA Study* at 13. Ten-year site planning is where the utilities can start to remedy this, and the Commission should instruct the utilities to make the bid information, other than the truly sensitive business information, available to the public.

Further, at the Workshop we suggested that a review of existing RFPs and responsive bids may well reveal opportunities for further market testing, perhaps through RFPs, to identify the cost-effective resources available to Florida. For instance, Connecticut recently issued an RFP to identify cost-effective resources for meeting that state's energy policy goals. *See* Connecticut Department of Energy and Environmental Protection, *Request for Proposals for Long Term Energy Contracts* (2013), available at www.ct.gov/deep/cwp/view.asp?a=4405&Q=527812&deepNav_GID=2121. Notably, *Power Purchase Agreement Checklist for States and Locals Governments*, produced by that National Renewable Energy Laboratory, offers guidance on developing RFPs for solar photovoltaic (PV) power purchase agreements in particular. *See* National Renewable Energy Laboratory, *Power Purchase Agreement Checklist for States and Locals Governments* (2009), Ex. 6.

Alternatively, as we discussed at the Workshop, the Commission could identify resource costs by reviewing examples of recent electricity purchase or production decisions, such as the new solar photovoltaic generation in Georgia and Colorado. *See* Georgia Public Service Commission, *PSC Approves Agreement to Resolve Georgia Power 2013 Integrated Resource Plan and Expands the Use of Solar Energy* (Aug. 2013); Xcel Energy, *Xcel Energy Proposes Adding Economic Solar, Wind to Meet Future Customer Energy Demands* (Sept. 2013). Additional cost data—especially from local or regional electricity markets—is essential for prudent planning, and the Commission should require the utilities to include sufficient cost data in their plans to substantiate the cost-effectiveness of their proposed investments.

IV. Conclusion

For all these reasons, the Commission should defer ten-year site plan approval, including approval of planned new gas-burning capacity, until the utilities provide the missing comparative cost-risk

analysis. Moreover, the Sierra Club urges the Commission to follow the best practice of making the comparative cost-risk analysis available for public comment.

Sincerely,

/s/

Diana Csank
Associate Attorney
Sierra Club Environmental Law Program
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(202)-548-4595
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Exhibit D



Robby A. Odom
Station Manager, Crystal River
Steam Plant & Fuel Operations

January 21, 2014

Submitted via email:

Erin.DiBacco@dep.state.fl.us

SWD_AIR@dep.state.fl.us

<ftp://ftp.dep.state.fl.us/pub/incoming>

Erin Anthony DiBacco
Compliance and Enforcement
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, FL 33637

Dear Mr. DiBacco:

Re: Crystal River Energy Complex Units 1 and 2
Permit No.: 0170004-040-AC
Test Report for Coal Blend Testing / Post Combustion Controls

Please find attached the information to be submitted per the requirements of Air Permit No. 0170004-040-AC (Coal Blend Testing/Post Combustion Controls). The testing was conducted from September 16 through October 3, 2013 on Crystal River Unit 1 and from November 4 through November 21, 2013 on Crystal River Unit 2. Please note that no testing of sub-bituminous (Powder River Basin) coal blends occurred during the test burn, only various types of bituminous coal were tested, with and without hydrated lime and/or activated carbon injection.

Please contact Ron Johnson at (352) 501-5170 or Jamie Hunter at (727) 820-5764 if you have any questions.

Sincerely,

A handwritten signature in blue ink that reads "Mark Gillespie".

for Robby A. Odom
Station Manager/Responsible Official

Enclosures

Appendix 1

(Schedule and Overall Description of each Test Burn Run)

Crystal River Unit 1 September Test Burn Results

| Start Time | End Time | Load | Coal | Sootblowing? | Reagent Injection (lb/hr) | | PM (lb/Mbtu) | Unit 1 | | | Notes |
|---------------|---------------|----------|----------|--------------|---------------------------|------------------|--------------|---------------|-------------------|-------------|---|
| | | | | | Hydrated Lime | Activated Carbon | | HCl (lb/Mbtu) | Mercury (lb/Tbtu) | Opacity (%) | |
| 9/16/13 0:00 | 9/16/13 0:00 | 92% | CAPP | | 0 | 0 | 0.047 | | | 15 | |
| 9/16/13 12:30 | 9/16/13 13:39 | (363 MW) | CAPP | | 0 | 0 | | | | | Run Void due to Rail Issue |
| 9/16/13 19:10 | 9/16/13 20:20 | | CAPP | Yes | 0 | 0 | 0.056 | | | 21 | |
| 9/18/13 11:30 | 9/18/13 12:32 | 70% | West Elk | | 0 | 0 | 0.030 | 0.007 | 1.715 | 7 | |
| 9/18/13 13:20 | 9/18/13 14:32 | (277 MW) | West Elk | | 0 | 0 | 0.019 | 0.009 | 1.716 | 8 | |
| 9/18/13 15:10 | 9/18/13 16:22 | | West Elk | Yes | 0 | 0 | 0.022 | 0.008 | 1.557 | 10 | |
| 9/19/13 8:30 | 9/19/13 9:42 | 85% | West Elk | | 0 | 0 | 0.045 | 0.012 | 1.794 | 15 | |
| 9/19/13 10:10 | 9/19/13 11:22 | (335 MW) | West Elk | | 0 | 0 | 0.042 | 0.007 | 1.773 | 15 | |
| 9/19/13 12:00 | 9/19/13 13:12 | | West Elk | Yes | 0 | 0 | 0.057 | 0.005 | 1.498 | 16 | |
| 9/20/13 9:00 | 9/20/13 10:12 | 92% | West Elk | | 0 | 0 | 0.057 | 0.003 | 1.145 | 20 | |
| 9/20/13 10:30 | 9/20/13 11:42 | (363 MW) | West Elk | | 0 | 0 | 0.095 | 0.004 | 1.163 | 23 | |
| 9/20/13 12:05 | 9/20/13 13:17 | | West Elk | Yes | 0 | 0 | 0.110 | 0.004 | 1.154 | 24 | |
| 9/23/13 9:00 | 9/23/13 10:12 | 70% | West Elk | | 75 | 150 | 0.053 | 0.005 | 0.893 | 14 | |
| 9/23/13 12:20 | 9/23/13 13:32 | (277 MW) | West Elk | | 75 | 75 | 0.042 | 0.004 | 0.895 | 15 | |
| 9/23/13 14:00 | 9/23/13 15:12 | | West Elk | Yes | 75 | 75 | 0.041 | 0.003 | 0.861 | 14 | |
| 9/24/13 9:35 | 9/24/13 10:47 | 85% | West Elk | | 75 | 75 | 0.074 | 0.003 | 1.040 | 21 | |
| 9/24/13 11:25 | 9/24/13 12:37 | (335 MW) | West Elk | | 75 | 75 | 0.073 | 0.003 | 1.029 | 23 | |
| 9/24/13 13:05 | 9/24/13 14:17 | | West Elk | Yes | 75 | 75 | 0.080 | 0.003 | 0.916 | 25 | |
| 9/30/13 9:35 | 9/30/13 10:47 | 92% | CAPP | | 50 | 75 | 0.102 | 0.079 | 2.995 | 16 | High Ash CAPP |
| 9/30/13 11:35 | 9/30/13 12:47 | (363 MW) | CAPP | | 50 | 75 | 0.093 | 0.090 | 3.026 | 18 | |
| 9/30/13 13:15 | 9/30/13 14:27 | | CAPP | Yes | 50 | 75 | 0.139 | 0.088 | 2.601 | 21 | |
| 10/1/13 8:10 | 10/1/13 9:22 | 85% | West Elk | | 50 | 75 | 0.105 | 0.002 | 0.776 | 19 | |
| 10/1/13 10:05 | 10/1/13 11:17 | (335 MW) | West Elk | | 50 | 75 | 0.079 | 0.002 | 0.704 | 20 | |
| 10/1/13 12:00 | 10/1/13 13:12 | | West Elk | Yes | 50 | 75 | 0.088 | 0.002 | 0.749 | 22 | |
| 10/2/13 8:35 | 10/2/13 9:42 | 85% | West Elk | | 50 | 0 | 0.080 | 0.002 | 1.037 | 20 | |
| 10/2/13 10:10 | 10/2/13 11:10 | (335 MW) | West Elk | | 50 | 0 | | | 0.986 | | HCl & PM Run void due to filter temperature issue |
| 10/2/13 12:10 | 10/2/13 13:22 | | West Elk | Yes | 50 | 0 | 0.079 | 0.002 | 0.875 | 22 | |
| 10/2/13 14:10 | 10/2/13 15:22 | | West Elk | | 50 | 0 | 0.113 | 0.002 | 0.974 | 26 | |
| 10/3/13 7:25 | 10/3/13 8:37 | 92% | West Elk | | 50 | 75 | 0.119 | 0.004 | 0.858 | 28 | |
| 10/3/13 9:35 | 10/3/13 10:47 | (365 MW) | West Elk | | 50 | 75 | | 0.003 | 0.731 | | No PM run |
| 10/3/13 13:50 | 10/3/13 15:02 | | West Elk | | 0 | 0 | | 0.002 | 1.131 | | No PM run |

Crystal River Unit 2 November Test Burn Results

| Start Time | End Time | Load | Coal | Sootblowing? | Reagent Injection (lb/hr) | | | HCl (lb/Mbtu) | Unit 2 | | Opacity (%) | Notes |
|----------------|----------------|-----------------|----------|--------------|---------------------------|------------------|--------------|---------------|-------------------|----------------------------|-------------|--|
| | | | | | Hydrated Lime | Activated Carbon | PM (lb/Mbtu) | | Mercury (lb/Tbtu) | SO ₂ (lb/MMBtu) | | |
| 11/4/13 10:05 | 11/4/13 11:14 | 92% (480 MW) | CAPP | | 0 | 0 | 0.015 | 0.089 | 3.014 | 0.0013 | 5 | |
| 11/4/13 12:10 | 11/4/13 13:18 | | CAPP | | 0 | 0 | 0.012 | 0.085 | 3.578 | 0.0008 | 6 | |
| 11/4/13 13:55 | 11/4/13 15:03 | | CAPP | Yes | 0 | 0 | 0.021 | 0.081 | 3.339 | 0.0011 | 6 | |
| 11/6/13 12:00 | 11/6/14 13:08 | 70% (365 MW) | West Elk | | 0 | 0 | 0.033 | 0.006 | 1.323 | | 12 | Unit 2 tripped the previous night, 11/5. Build-up of residual light oil on ESP plates appears to have adversely impacted collection performance. |
| 11/6/13 13:35 | 11/6/14 15:03 | | West Elk | | 0 | 0 | 0.037 | 0.006 | 1.211 | | 13 | |
| 11/6/13 15:10 | 11/6/14 15:18 | | West Elk | Yes | 0 | 0 | 0.048 | 0.007 | 1.281 | | 15 | |
| 11/7/13 9:00 | 11/7/14 9:30 | | West Elk | | 0 | 0 | 0.013 | | | | 3 | |
| 11/7/13 11:15 | 11/7/13 12:23 | 85% (440 MW) | West Elk | | 0 | 0 | 0.062 | 0.011 | 1.267 | | 16 | |
| 11/7/13 12:50 | 11/7/13 13:58 | | West Elk | | 0 | 0 | 0.056 | 0.012 | 1.127 | | 16 | |
| 11/7/13 14:30 | 11/7/13 15:38 | | West Elk | Yes | 0 | 0 | 0.071 | 0.010 | 1.185 | | 17 | |
| 11/11/13 11:50 | 11/11/13 12:58 | 92% (480 MW) | West Elk | | 0 | 0 | 0.017 | 0.004 | 1.241 | 0.0002 | 9 | |
| 11/11/13 13:25 | 11/11/13 14:33 | | West Elk | | 0 | 0 | 0.038 | 0.003 | 1.140 | 0.0003 | 12 | |
| 11/11/13 15:10 | 11/11/13 16:23 | | West Elk | Yes | 0 | 0 | 0.040 | 0.002 | 0.875 | 0.0012 | 13 | |
| 11/12/13 10:25 | 11/12/13 11:33 | 70% (365 MW) | West Elk | | 48 | 75 | 0.022 | 0.002 | 0.587 | | 8 | |
| 11/12/13 12:00 | 11/12/13 13:08 | | West Elk | | 48 | 75 | 0.015 | 0.002 | 0.511 | | 9 | |
| 11/12/13 13:30 | 11/12/13 14:38 | | West Elk | Yes | 48 | 75 | 0.016 | 0.002 | 0.280 | | 10 | |
| 11/13/13 10:30 | 11/13/13 11:38 | 85% (440 MW) | West Elk | | 48 | 75 | 0.061 | 0.002 | 0.422 | | 16 | 30 minute run |
| 11/13/13 12:10 | 11/13/13 12:45 | | West Elk | | 48 | 75 | 0.045 | 0.002 | 0.371 | | 17 | |
| 11/14/13 10:15 | 11/14/13 11:23 | 85% (440 MW) | West Elk | | 0 | 0 | 0.063 | 0.002 | 1.027 | | 16 | Dropped 10MW during test ID Fan biased flow to C ESP |
| 11/14/13 11:45 | 11/14/13 12:18 | | West Elk | | 0 | 0 | 0.040 | 0.002 | 0.975 | | 16 | |
| 11/14/13 15:45 | 11/14/13 16:53 | | 70% | | 0 | 0 | 0.037 | 0.003 | 1.006 | | 12 | |
| 11/14/13 17:25 | 11/14/13 17:58 | | 85% | | 0 | 0 | 0.048 | 0.011 | 0.974 | | 17 | |
| 11/18/13 10:15 | 11/18/13 11:23 | 92% (480 MW) | West Elk | | 50 | 50 | 0.044 | 0.009 | 0.961 | 0.0017 | 13 | |
| 11/18/13 11:45 | 11/18/13 12:53 | | West Elk | | 50 | 50 | 0.072 | 0.005 | 0.722 | 0.0004 | 15 | |
| 11/18/13 13:15 | 11/18/13 14:23 | | West Elk | | 50 | 50 | 0.048 | 0.004 | 0.670 | 0.0005 | 16 | |
| 11/21/13 9:30 | 11/21/13 10:38 | 92% (480 MW) | West Elk | | 0 | 0 | 0.049 | 0.004 | 0.607 | 0.0007 | 12 | |
| 11/21/13 11:00 | 11/21/13 12:08 | | West Elk | | 0 | 0 | 0.029 | 0.004 | 0.398 | 0.0002 | 12 | |
| 11/21/13 12:30 | 11/21/13 13:38 | | West Elk | | 0 | 0 | 0.026 | 0.004 | 0.413 | 0.0003 | 9 | |
| 11/21/13 14:30 | 11/21/13 15:38 | | West Elk | | 0 | 0 | 0.029 | 0.004 | 0.450 | 0.0003 | 10 | |

Exhibit E

IPM Model – Revisions to Cost and Performance for APC Technologies

Particulate Control Cost Development Methodology

FINAL

March 2011

Project 12301-009

Systems Research and Applications Corporation

Prepared by



55 East Monroe Street • Chicago, IL 60603 USA • 312-269-2000

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This work was funded and reviewed by the U.S. Environmental Protection Agency under the supervision of William A. Stevens, Senior Advisor – Power Technologies. Additional input and review was provided by Dr. Jim Staudt, President of Andover Technology Partners.

Particulate Control Cost Development Methodology – Final

Technology Description

There are two main particulate capture unit operations employed in the utility industry:

- Electrostatic Precipitator (ESP)
- Fabric Filter (FF)

ESPs have been implemented in the utility industry since the 1960's; there have been a great number of installations in the U.S. and around the world. The ESP collects PM in a three step process: charging, collecting, and cleaning the collected ash off the electrodes. The ESP relies on fly ash resistivity to charge and collect the particles. ESPs can reduce PM emissions to below 0.015 lb/MMBtu and opacity below 10% depending on the ash characteristics and particulate loading. However, it is difficult to collect fly ash when burning low sulfur coal because of high fly ash resistivity requiring large ESP. ESPs are not well suited for processes that are highly variable because the collection efficiency is sensitive to fluctuations in gas stream conditions.

Recently fabric filters (specifically pulse-jet type or PJFF) have become the preferred choice for new and retrofit utility particulate capture. PJFFs have been utilized commercially for over 25 years and are considered a mature technology. Modern PJFFs are reliable, versatile and cost effective. In a PJFF, particulate matter is collected on a fabric bag; then the particles are cleaned off the bag surfaces with a pulse of air. During cleaning, the collected particulate falls into hoppers and is removed via an ash handling system to a silo. PJFF suppliers provide guarantees as low as 0.010 lb/MMBtu depending on the application.

Co-Benefits

Due to the filter cake inherent in PJFFs, PJFF units have additional benefits that are not available in ESPs:

- Mercury removal is enhanced by a PJFF by contacting the flue gas with the unburned carbon in the fly ash;
- Collection of injected activated carbon with a PJFF can dramatically increase the mercury removal from the flue gas versus an ESP particulate collector;
- With in-duct dry sorbent injection, the SO₂ removal can be greatly increased when a PJFF is used versus an ESP for the sorbent capture; and
- Acid gases are removed when the flue gas is passed through the filter cake in a PJFF.

Particulate Control Cost Development Methodology – Final

Establishment of Cost Basis

The major cost driver for a baghouse is the required gross air-to-cloth (A/C) ratio. When the baghouse is installed in a retrofit situation following another collection device, such as an ESP, then an A/C of 6.0 would be appropriate if activated carbon injection is applied for mercury removal.

If the baghouse will be used as the sole particulate capture unit operation, an A/C of 4.0 should be specified. The lower A/C ratio will provide better bag life with the high inlet particulate loading expected for the single particulate capture device in the process.

Cost data from the S&L current database of projects, for several different baghouse installations, was reviewed and a relationship was developed for the capital costs of the system on a flue gas rate basis. The capital costs include:

- Duct work modifications,
- Foundations,
- Structural steel,
- ID fan modifications or new booster fans, and
- Electrical modifications.

Methodology

Inputs

Several input variables are required in order to predict the total future retrofit costs:

- Type of coal,
- Unit size,
- Unit heat rate, and
- Baghouse required size.

A retrofit factor that equates to difficulty in construction of the system must be defined.

Outputs

Total Project Costs (TPC)

A base installed cost for the baghouse is calculated (BM). The base installed cost is then increased by:

- Engineering and construction management costs at 10% of the BM cost;
- Labor adjustment for 6 x 10 hour shift premium, per diem, etc., at 5% of the BM cost; and
- Contractor profit and fees at 5% of the BM cost.

Particulate Control Cost Development Methodology – Final

A capital, engineering, and construction cost subtotal (CECC) is established as the sum of the BM and the additional engineering and construction fees.

Additional costs and financing expenditures for the project are computed based on the CECC. Financing and additional project costs include:

- Owner's home office costs (owner's engineering, management, and procurement) at 5% of the CECC; and
- Allowance for Funds Used During Construction (AFUDC) at 6% of the CECC is added to account for AFUDC based on a complete project duration of 2 years.

The total project cost is based on a multiple lump sum contract approach. Should a turnkey engineering procurement construction (EPC) contract be executed, the total project cost would be 10 to 15% higher than what is currently estimated.

Escalation is not included in the estimate. The total project cost (TPC) is the sum of the CECC and the additional costs and financing expenditures.

Fixed O&M (FOM)

The fixed operating and maintenance (O&M) cost is a function of the additional operations staff (FOMO), maintenance labor and materials (FOMM), and administrative labor (FOMA) associated with the baghouse installation. The FOM is the sum of the FOMO, FOMM, and FOMA.

The following factors and assumptions underlie calculations of the FOM:

- All of the FOM costs were tabulated on a per kilowatt-year (kW-yr) basis.
- In general, 0 additional operators are required for a baghouse.
- The fixed maintenance materials and labor is a direct function of the process capital cost (BM).
- The administrative labor is a function of the FOMO and FOMM.

Variable O&M (VOM)

Variable O&M is a function of:

- Bag and cage replacement.

Particulate Control Cost Development Methodology – Final

The following factors and assumptions underlie calculations of the VOM:

- All of the VOM costs were tabulated on a per megawatt-hour (MWh) basis.
- Bag and cage replacement every 3 and 9 years respectively for unit operations with 6.0 A/C.
- Bag and cage replacement every 5 and 10 years respectively for unit operations with 4.0 A/C.

Input options are provided for the user to adjust the variable O&M costs per unit. Average default values are included in the base estimate. The variable O&M costs per unit options are:

- Bag and cage costs in \$/item.

The variables that contribute to the overall VOM are:

$$\text{VOMB} = \text{Variable O\&M costs for bags and cage replacement}$$

The total VOM is the VOMB. The additional auxiliary power requirement is reported as a percentage of the total gross power of the unit.

Table 1 contains an example of the complete capital and O&M cost estimate worksheet for a baghouse installation.

Particulate Control Cost Development Methodology – Final

Table 1. Example Complete Cost Estimate for a 4.0 A/C Baghouse Installation (Costs are all based on 2009 dollars)

| Variable | Designation | Units | Value | Calculation |
|-----------------------------|-------------|-----------|---------------|---|
| Unit Size (Gross) | A | (MW) | 500 | <--- User Input |
| Retrofit Factor | B | | 1 | <--- User Input (An "average" retrofit has a factor = 1.0) |
| Gross Heat Rate | C | (Btu/kWh) | 9500 | <--- User Input |
| Type of Coal | D | | Bituminous | <--- User Input |
| Baghouse Air-to-Cloth Ratio | E | | 4.0 A/C Ratio | <--- User Input |
| Heat Input | F | (Btu/hr) | 4.75E+09 | = A * C * 1000 |
| Flue Gas Rate | G | (acfm) | 2,068,502 | Downstream of an air preheater For Bituminous Coal = A * C * 0.435 For PRB Coal = A * C * 0.400 For Lignite Coal = A * C * 0.362 |
| Aux Power | H | (%) | 0.60 | 0.6 default value Should be used for model input. |
| Aux Power Cost | J | (\$/kWh) | 0.06 | |
| Bag Cost | K | (\$/bag) | 30 | |
| Cage Cost | L | (\$/cage) | 30 | |
| Operating Labor Rate | M | (\$/hr) | 60 | Labor cost including all benefits |

Capital Cost Calculation

Includes - Equipment, installation, buildings, foundations, electrical, and retrofit difficulty

BM (\$) = $(E = 6.0 \text{ Air-to-Cloth then } 422, E = 4.0 \text{ Air-to-Cloth then } 476) * B * G^{0.81}$

BM (\$/kW) =

Total Project Cost

A1 = 10% of BM

A2 = 5% of BM

A3 = 5% of BM

CECC (\$) = BM + A1 + A2 + A3

CECC (\$/kW) =

B1 = 5% of CECC

B2 = 6% of CECC + B1

TPC (\$) = CECC + B1 + B2 + C1 + C2

TPC (\$/kW) =

Fixed O&M Cost

FOMO (\$/kW yr) = (0 additional operators) * 2080 * M / (A * 1000)

FOMM (\$/kW yr) = BM * 0.005 / (B * A * 1000)

FOMA (\$/kW yr) = 0.03 * (FOMO + 0.4 * FOMM)

FOM (\$/kW yr) = FOMO + FOMM + FOMA

Variable O&M Cost

VOMB (\$/MWh) = $(E = 6.0 \text{ Air-to-Cloth then } 0.004, E = 4.0 \text{ Air-to-Cloth then } 0.005) * (K/3 + L/9)$

VOM (\$/MWh) = VOMB

Example

Comments

| | | |
|----|------------|--|
| \$ | 62,128,000 | Base module for an additional baghouse including: ID or booster fans, piping, ductwork, etc... |
| | 124 | Base module cost per kW |
| \$ | 6,213,000 | Engineering and Construction Management costs |
| \$ | 3,106,000 | Labor adjustment for 6 x 10 hour shift premium, per diem, etc... |
| \$ | 3,106,000 | Contractor profit and fees |
| \$ | 74,553,000 | Capital, engineering and construction cost subtotal |
| | 149 | Capital, engineering and construction cost subtotal per kW |
| \$ | 3,728,000 | Owners costs including all "home office" costs (owners engineering, management, and procurement activities) |
| \$ | 4,697,000 | AFUDC for baghouse: 6% for a 2 year engineering and construction cycle |
| \$ | 82,978,000 | Total project cost |
| | 166 | Total project cost per kW |
| \$ | - | Fixed O&M additional operating labor costs |
| \$ | 0.62 | Fixed O&M additional maintenance material and labor costs |
| \$ | 0.01 | Fixed O&M additional administrative labor costs |
| \$ | 0.63 | Total Fixed O&M costs |
| \$ | 0.15 | Variable O&M costs for bags and cages. |
| \$ | 0.15 | |

Particulate Control Cost Development Methodology – Final

Table 2. Example Complete Cost Estimate for a 6.0 A/C Baghouse Installation (Costs are all based on 2009 dollars)

| Variable | Designation | Units | Value | Calculation |
|-----------------------------|-------------|-----------|---------------|---|
| Unit Size (Gross) | A | (MW) | 500 | <--- User Input |
| Retrofit Factor | B | | 1 | <--- User Input (An "average" retrofit has a factor = 1.0) |
| Gross Heat Rate | C | (Btu/kWh) | 9500 | <--- User Input |
| Type of Coal | D | | Bituminous | <--- User Input |
| Baghouse Air-to-Cloth Ratio | E | | 6.0 A/C Ratio | <--- User Input |
| Heat Input | F | (Btu/hr) | 4.75E+09 | = A*C*1000 |
| Flue Gas Rate | G | (acfm) | 2,068,502 | Downstream of an air preheater For Bituminous Coal = A*C*0.435 For PRB Coal = A*C*0.400 For Lignite Coal = A*C*0.362 |
| Aux Power | H | (%) | 0.60 | 0.6 default value Should be used for model input. |
| Aux Power Cost | J | (\$/kWh) | 0.06 | |
| Bag Cost | K | (\$/bag) | 80 | |
| Cage Cost | L | (\$/cage) | 30 | |
| Operating Labor Rate | M | (\$/hr) | 60 | Labor cost including all benefits |

Capital Cost Calculation

Includes - Equipment, installation, buildings, foundations, electrical, and retrofit difficulty

$$BM (\$) = \text{if}(E = 6.0 \text{ Air-to-Cloth then } 422, E = 4.0 \text{ Air-to-Cloth then } 476) * B * G * 0.81$$

$$BM (\$/KW) =$$

Total Project Cost

$$A1 = 10\% \text{ of } BM$$

$$A2 = 5\% \text{ of } BM$$

$$A3 = 5\% \text{ of } BM$$

$$CECC (\$) = BM + A1 + A2 + A3$$

$$CECC (\$/KW) =$$

$$B1 = 5\% \text{ of } CECC$$

$$B2 = 8\% \text{ of } CECC + B1$$

$$TPC (\$) = CECC + B1 + B2 + C1 + C2$$

$$TPC (\$/KW) =$$

Fixed O&M Cost

$$FOMO (\$/kW \text{ yr}) = (0 \text{ additional operators}) * 2080 * M / (A * 1000)$$

$$FOMM (\$/kW \text{ yr}) = BM * 0.005 / (B * A * 1000)$$

$$FOMA (\$/kW \text{ yr}) = 0.03 * (FOMO + 0.4 * FOMM)$$

$$FOM (\$/kW \text{ yr}) = FOMO + FOMM + FOMA$$

Variable O&M Cost

$$VOMB (\$/MWh) = \text{if}(E = 6.0 \text{ Air-to-Cloth then } 0.004, E = 4.0 \text{ Air-to-Cloth then } 0.005) * (K/3 + L/9)$$

$$VOM (\$/MWh) = VOMB$$

Example

Comments

| | | |
|----|-------------------|--|
| \$ | 55,080,000 | Base module for an additional baghouse including: ID or booster fans, piping, ductwork, etc... |
| | 110 | Base module cost per kW |
| \$ | 5,508,000 | Engineering and Construction Management costs |
| \$ | 2,754,000 | Labor adjustment for 6 x 10 hour shift premium, per diem, etc... |
| \$ | 2,754,000 | Contractor profit and fees |
| \$ | 66,096,000 | Capital, engineering and construction cost subtotal |
| | 132 | Capital, engineering and construction cost subtotal per kW |
| \$ | 3,305,000 | Owners costs including all "home office" costs (owners engineering, management, and procurement activities) |
| \$ | 4,164,000 | AFUDC for baghouse: 6% for a 2 year engineering and construction cycle |
| \$ | 73,565,000 | Total project cost |
| | 147 | Total project cost per kW |
| \$ | - | Fixed O&M additional operating labor costs |
| \$ | 0.55 | Fixed O&M additional maintenance, material and labor costs |
| \$ | 0.01 | Fixed O&M additional administrative labor costs |
| \$ | 0.56 | Total Fixed O&M costs |
| \$ | 0.12 | Variable O&M costs for bags and cages. |
| \$ | 0.12 | |

D. Progress Energy – Crystal River



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

Sent by Electronic mail – Received Receipt Requested

Mr. Robby Odom, Plant Manager
Progress Energy Florida, Inc
299 First Avenue, North
St. Petersburg, Florida 3370

Re: Project No. 0170004-036-AC
Progress Energy Florida, Crystal River Power Plant
Regional Haze Implementation

Dear Mr Odom:

On June 15, 2012, you submitted an application requesting a sulfur dioxide (SO₂) emissions standard of 0.15 lb/MMBtu heat input on a 30-day rolling average basis from Units 1 and 2. The application also requested the installation of SO₂ control technologies to meet the Florida Regional Haze Implementation Plan. The second alternative in the application was a shutdown date of December 31, 2020 for firing coal in Crystal River Power Plant's Units 1 and 2. The third option requested was an emission limit to exempt out of the Florida Regional Haze Implementation Plan for Units 1 and 2. The existing facility is located in Citrus County at 15760 West Power Line Street in Crystal River, Florida. Enclosed are the following documents: the Written Notice of Intent to Issue Air Permit; the Public Notice of Intent to Issue Air Permit; the Technical Evaluation and Preliminary Determination; and the Draft Permit with Appendices. The Public Notice of Intent to Issue Air Permit is the actual notice that you must have published in the legal advertisement section of a newspaper of general circulation in the area affected by this project. If you have any questions, please contact the project engineer, Leigh-Ann Pell at 850-717-9033.

Sincerely,

Jeffery F. Koerner, Program Administrator
Office of Permitting and Compliance
Division of Air Resource Management

Enclosures

JFK/al/lp

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

*In the Matter of an
Application for Air Permit by:*

Progress Energy Florida, Inc
299 First Avenue, North
St. Petersburg, Florida 3370

Project No. 0170004-036-AC
Minor Air Construction Permit

Authorized Representative:
Robby Odom, Plant Manager

Crystal River Power Plant
Regional Haze Implementation
Citrus County, Florida

Facility Location: Progress Energy Florida proposes to operate the existing Crystal River Power Plant, which is located in Citrus County at 15760 West Power Line Street in Crystal River, Florida.

Project: The project establishes a sulfur dioxide (SO₂) emission standard of 0.15 pounds per million Btu of heat input or 95 percent (%) reduction, whichever is less stringent, for coal-fired Units 1 and 2. The limit will be accomplished by a combination of dry flue gas desulfurization (FGD) and changes to the electrostatic precipitators and/or addition of baghouses to capture the reacted sorbent. This condition shall become effective upon the effective date of EPA's approval of these specific requirements in the Florida Regional Haze State Implementation Plan. Details of the project are provided in the application and the enclosed Technical Evaluation and Preliminary Determination.

Permitting Authority: Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210 and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Division of Air Resource Management's (DARM) Office of Permitting and Compliance is the Permitting Authority responsible for making a permit determination for this project. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, Tallahassee, Florida. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400. The Permitting Authority's telephone number is 850/717-9000.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at address indicated above for the Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address or phone number listed above.

Notice of Intent to Issue Permit: The Permitting Authority gives notice of its intent to issue an air permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of the proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a final permit in accordance with the conditions of the draft permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

Public Notice: Pursuant to Section 403.815, F.S. and Rules 62-110.106 and 62-210.350, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue Air Permit (Public Notice). The Public Notice shall be published one time only as soon as possible in the legal advertisement section of a newspaper of general circulation in the area affected by this project. The newspaper used must meet the requirements of Sections 50.011 and 50.031, F.S. in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the Permitting Authority at above address or phone number. Pursuant to Rule 62-110.106(5) and (9), F.A.C., the applicant shall provide

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

proof of publication to the Permitting Authority at the above address within 7 days of publication. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rule 62-110.106(11), F.A.C.

Comments: The Permitting Authority will accept written comments concerning the draft permit for a period of 14 days from the date of publication of the Public Notice. Written comments must be received by the Permitting Authority by close of business (5:00 p.m.) on or before the end of the 14-day period. If written comments received result in a significant change to the draft permit, the Permitting Authority shall revise the draft permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the applicant or any of the parties listed below must be filed within 14 days of receipt of this Written Notice of Intent to Issue Air Permit. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the attached Public Notice or within 14 days of receipt of this Written Notice of Intent to Issue Air Permit, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner; the name, address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of when and how each petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Written Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available in this proceeding.

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

Executed in Tallahassee, Florida.

Jeffery F. Koerner, Program Administrator
Office of Permitting and Compliance
Division of Air Resource Management

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Written Notice of Intent to Issue Air Permit package (including the Written Notice of Intent to Issue Air Permit, the Public Notice of Intent to Issue Air Permit, the Technical Evaluation and Preliminary Determination and the Draft Permit with Appendices) was sent by electronic mail, or a link to these documents made available electronically on a publicly accessible server, with received receipt requested before the close of business on the date indicated below to the following persons.

Robby Odom, Plant Manager, PEF: robby.odom@PGNmail.com
Scott Osbourn, P.E., Golder Associates, Inc: sosbourn@golder.com
Robert Wong, Administrator, DEP SWD: robert.wong@dep.state.fl.us
Anne Harvey, Earth Justice: aharvey@earthjustice.org
Heather Ceron, US EPA Region 4: ceron.heather@epa.gov
Barbara Friday, DEP OPC: barbara.friday@dep.state.fl.us
Lynn Scarce, DEP OPC: lynn.scarce@dep.state.fl.us

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

PERMITTEE

Florida Power Corporation
d/b/a Progress Energy Florida, Inc.
299 First Avenue, North
St. Petersburg, Florida 33701

Air Permit No. 0170004-036-AC
Crystal River Power Plant Units 1 and 2
Standard Industrial Classification Code No. 4911
Expiration Date: December 31, 2018

Authorized Representative:
Robby Odom, Plant Manager

Sulfur Dioxide Emission Standards/Controls
Citrus County

PROJECT

This is the final air construction permit, which establishes an additional sulfur dioxide (SO₂) emission standard for Units 1 and 2, authorizes installation of dry flue gas desulfurization (FGD) systems and authorizes physical changes to the electrostatic precipitators and plant components or installation of baghouses to facilitate installation of the dry FGD systems. The proposed work will be conducted at the existing Crystal River Power Plant, located in Citrus County at 15760 West Power Line Street in Crystal River, Florida. The UTM coordinates are Zone 17, 334.3 km East and 3204.5 km North.

This final permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions); Section 4 (Appendices). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000) and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida

(DRAFT)

Jeffery F. Koerner, Program Administrator
Office of Permitting and Compliance
Division of Air Resource Management

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination and Final Permit with Appendices) was sent by electronic mail, or a link to these documents made available electronically on a publicly accessible server, with received receipt requested before the close of business on the date indicated below to the following persons.

Robby Odom, Plant Manager PEF: robby.odom@pgnmail.com
Scott Osbourn, P.E., Golder Associates, Inc: sosbourn@golder.com
Robert Wong, Air Program Administrator, DEP SWD: robert.wong@dep.state.fl.us
Anne Harvey, Earth Justice: aharvey@earthjustice.org
Heather Ceron, US EPA Region 4: ceron.heather@epa.gov
Barbara Friday, DEP OPC: barbara.friday@dep.state.fl.us
Lynn Scarce, DEP OPC: lynn.scarce@dep.state.fl.us

Clerk Stamp

**FILING AND ACKNOWLEDGMENT
FILED**, on this date, pursuant to Section
120.52(7), Florida Statutes, with the designated
agency clerk, receipt of which is hereby
acknowledged.

(DRAFT)

SECTION 1. GENERAL INFORMATION

FACILITY DESCRIPTION

The existing facility consists of the following emissions units (E.U.).

| E.U. No. | Brief Description |
|--|--|
| <i>Regulated Emission Units</i> | |
| 001 | Fossil Fuel Steam Generator, Unit 1 |
| 002 | Fossil Fuel Steam Generator, Unit 2 |
| 004 | Fossil Fuel Steam Generator, Unit 4 |
| 003 | Fossil Fuel Steam Generator, Unit 5 |
| 006 | Fly ash transfer (Source 1) from FFSG Unit 1 |
| 008 | Fly ash storage silo (Source 3) for FFSG Units 1 and 2 |
| 009 | Fly ash transfer (Source 4) from FFSG Unit 2 |
| 010 | Fly ash transfer (Source 5) from FFSG Unit 2 |
| 014 | Bottom ash storage silo for FFSG Units 1 and 2 |
| 012 | Relocatable diesel generators |
| 013 | Cooling towers for FFSG Units 1, 2, and 3 |
| 015 | Cooling towers for FFSG Units 4 and 5 |
| 016 | Material handling activities for coal-fired steam units |
| 020 | Portable Cooling Towers for Fossil Fuel Steam Generators Units 1 and 2 |
| 028 | 3500 kW diesel generator associated with Unit 3 |
| 029 | Diesel fire pump, south yard |
| 030 | Emergency generator (meteorological weather station) |
| <i>Unregulated Emissions Units and/or Activities</i> | |
| 017 | Fuel and lube oil tanks and vents |
| 018 | Sewage treatment, water treatment, lime storage |
| 019 | Two 3,500 kW diesel generators associated with Unit 3 |

PROPOSED PROJECT

This project addresses coal-fired Units 1 and 2. The project supplements permit No. 0170004-017-AC (issued February 26, 2009) by providing additional options for complying with Florida's Regional Haze State Implementation Plan. The three emission reduction scenarios authorized by this project include:

- A) Discontinuation of operation of Units 1 and 2 as coal-fired units by December 31, 2020;
- B) Installation and operation of a Dry Flue Gas Desulfurization (DFGD) system before January 1, 2018, or within 5 years of EPA's final approval of Florida's final Regional Haze SIP, whichever is later, and establishment of emissions standards of 95 percent (%) sulfur dioxide SO₂ removal efficiency or 0.15 pounds per million Btu heat input (lb/MMBtu); or
- C) Agree to a permit limit for SO₂ applicable on January 1, 2018, or within 5 years of EPA's final approval of Florida's final Regional Haze State Implementation Plan, whichever is later, at a level sufficient to exempt out of Best Available Retrofit Technology (BART) requirements.

FACILITY REGULATORY CLASSIFICATION

- The facility is a major source of hazardous air pollutants (HAP).
- The facility operates units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Office of Permitting and Compliance in the Division of Air Resource Management of the Department of Environmental Protection (Department). The Office of Permitting and Compliance mailing address is 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the DEP Southwest District Office at: 13051 N. Telecom Parkway Temple Terrace, Florida 33637-0926.
3. Appendices: The following Appendices are attached as a part of this permit: Appendix A (Citation Formats and Glossary of Common Terms); Appendix B (General Conditions); and Appendix C (Common Conditions).
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
6. Modifications: No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) & 62-212.300(1)(a), F.A.C.]
7. New Permit Specific Conditions: The applicant has proposed three emission reduction scenarios to satisfy the Florida Regional Haze Implementation Plan for the eligible emissions units at the Crystal River Power Plant. The applicant shall make a decision regarding the scenario that will be pursued and shall notify the Department of this decision no later than January 1, 2015, at which time the scenarios (and corresponding permit conditions) which were not selected will become obsolete. The applicant shall comply with one of the following three scenarios:
 - a. Discontinuation of operation of Crystal River Units 1 and 2 as coal-fired units by December 31, 2020. Refer to Section 3, Scenario A. This scenario is currently in effect pursuant to Permit No. 0170004-AV with certain contingencies related to other projects planned by the applicant.
 - b. Install and operate a sulfur dioxide (SO₂) Dry Flue Gas Desulfurization (DFGD) system before January 1, 2018, or within 5 years of the effective date of EPA's approval of this specific requirement in the Florida Regional Haze State Implementation Plan, whichever is later, and establish additional emissions standards of 95 percent sulfur dioxide SO₂ removal efficiency or 0.15 pounds per million Btu heat input (lb/MMBtu), whichever is less stringent, for Crystal River Units 1 and 2 as presumptive Best Available Retrofit Technology (BART). Refer to Section 3, Scenario B.
 - c. Agree to and demonstrate compliance with a permit limit for SO₂ by January 1, 2018, or within 5 years of the effective date of EPA's approval of this specific requirement in the Florida Regional Haze State Implementation Plan, whichever is later, at a level sufficient to exempt out of BART. Refer to Section 3, Scenario C.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

[Application No. 0170004-036-AC; Rule 62-296.340(5)(c), F.A.C.; and, Rules 62-4.070(1)&(3), and 62-213.440(1), F.A.C.]

8. Application for Title V Permit: This permit establishes optional emissions reduction scenarios as detailed in Section 3. A Title V air operation permit is required for regular operation of the permitted emissions unit. If Scenario A is chosen, an application to revise the facility's Title V air operation permit shall be submitted by January 1, 2015. If Scenario B is chosen, an application to incorporate the conditions of Scenario B of this permit into the facility's Title V air operation permit shall be submitted within 180 days after completing the physical changes authorized by this permit, but no later than 90 days prior to the expiration date shown above. If Scenario C is chosen, a Title V revision application shall be submitted as specified in the air construction permit that will be issued pursuant to this option. To apply for a Title V air operation permit, the applicant shall submit the appropriate application form and such additional information as the Department may by law require. The application shall be submitted to the appropriate Permitting Authority with copies to the Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220 and Chapter 62-213, F.A.C.]

DRAFT

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

Emission Units 1 and 2

This section of the permit addresses the following emissions units.

| ID No. | Emission Unit Description |
|--------|--|
| 001 | Fossil Fuel Steam Generator, Unit 1 - 3,750 MMBtu/hour |
| 002 | Fossil Fuel Steam Generator, Unit 2 - 4,795 MMBtu/hour |

SCENARIO A: CEASE OPERATION OF UNITS 1 & 2 AS COAL-FIRED UNITS BY 12/31/2020.

- A.1.** Compliance With Permit No. 0170004-017-AC. If the chosen emission reduction scenario is to cease operating Units 1 and 2 as coal fired units by December 31, 2020, then PEF shall comply with the existing emissions and operation limitations contain in Permit No. 0170004-017-AC, except that Condition 3.C.16. is changed as follows (~~strike through~~ indicates deleted text, double underline indicates added text):

Shut Down of Units 1 and 2. Units 1 and 2 shall cease to be operated as coal-fired units by December 31, 2020. ~~This date assumes timely licensing, construction and commencement of commercial operation of PEF's proposed new nuclear units (Levy County Units 1 and 2). The shutdown (or repowering) of Units 1 and 2 coal fired units is contingent upon completion of the first fuel cycle for Levy County Unit 2. PEF shall timely advise the Department of any developments that would delay the shutdown (or repowering) of Units 1 and 2 beyond the completion of the first fuel cycle for Levy County Unit 2. [Rule 62-296.340 (BART), F.A.C. and Applicant Request]~~ [Application No. 0170004-036-AC]

SCENARIO B: INSTALL DRY FLUE GAS DESULFURIZATION (DFGD) SYSTEM.

Authorized Construction

- B.1.** Previous Permits: The conditions of this section supplement all previously issued air construction permits and regulations affecting Units 1 and 2. Relevant provisions of these permits are incorporated in the Facility Title V Operation Permit No. 0170004-025-AV.
- B.2.** Sulfur Dioxide (SO₂) Control Project: For Units 1 and 2, the permittee is authorized to install a dry flue gas desulfurization (FGD) system including vessels, pumps, metering equipment, slaking equipment, bins, silos and other equipment required to store, feed and contact lime or similar sorbent with exhaust gas. [Application 0170004-036-AC]
- B.3.** Particulate Matter (PM) Control: If the permittee actually conducts the SO₂ Control Project on Units 1 and 2, then the permittee is required to make physical or operational changes to the PM control systems to avoid significantly increasing PM emissions caused by use of the dry FGD. The changes may include but are not limited to:
- Replacement or addition of wires, collection plates, transformer/rectifier sets, rappers, dust hoppers, conveyors and duct work on the existing electrostatic precipitators (ESPs);
 - Conversion of ESPs or portions of ESPs to baghouses;
 - Addition of baghouses, hoppers and conveyance equipment; and
 - Installation of modern micro-processor controls.
- [Application 0170004-036-AC]
- B.4.** Coal and Ash Handling Equipment: The permittee is authorized to make changes and improvements to the coal and ash handling equipment to facilitate the use of lower or higher sulfur coal blends and facilitate removal of dry FGD reaction products while achieving the SO₂ emission standard specified in Condition 6, below. [Application 0170004-036-AC]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

Emission Units 1 and 2

Performance Restrictions

- B.5.** Emission Increases: This permit does not authorize major modifications or increases in capacity. [Rule 62-210.200, F.A.C. (Definitions: Major Modification, Potential-to-Emit, Actual Baseline Emissions; Projected Actual Emissions and Significant Emissions Rate)]
- B.6.** Sulfur Dioxide (SO₂) Emission Standard: When combusting coal in Units 1 and 2, the owner or operator shall not cause to be discharged into the atmosphere from either unit any gases that contain SO₂ in excess of 0.15 pounds per million of heat input (lb/MMBtu) or 5 percent of the potential combustion concentration (95 percent reduction) on a 30-day rolling average basis, whichever is less stringent. Compliance with the emission standard shall be determined on a 30-day rolling average basis in accordance with the procedures contained in 40 Code of Federal Regulation (CFR), Part 60, Subpart Da. This condition shall become effective no later than January 1, 2018, or within 5 years of the effective date of EPA's approval of this specific requirement in the Florida Regional Haze State Implementation Plan, whichever is later. [Application No. 0170004-036-AC]
- {Note: This condition will apply in addition to other SO₂ requirements contained in Facility Title V Air Operation Permit 0170004-025-AV, its renewals and its revisions. Reference is made to certain procedures contained in 40 CFR 60, Subpart Da strictly for convenience. Units 1 and 2 are not affected facilities under this subpart.}*
- B.7.** Particulate Matter (PM) Emissions: No later than January 1, 2018, or within 5 years of the effective date of EPA's approval of this specific requirement in the Florida Regional Haze State Implementation Plan, whichever is later, PM emissions shall not exceed 0.015 lb/MMBtu, as determined by EPA Method 5. [Rule 62-4.070, F.A.C.; avoidance of Rule 62-212.400 (PSD), F.A.C.]
- B.8.** Visible Emissions: No later than January 1, 2018, or within 5 years of the effective date of EPA's approval of this specific requirement in the Florida Regional Haze State Implementation Plan, whichever is later, visible emissions shall not exceed 15% opacity under normal operations and 20% opacity under soot blowing and load change operations, as determined by data collected from the existing COMS. [Rule 62-4.070, F.A.C.; avoidance of Rule 62-212.400 (PSD), F.A.C.]
- B.9.** SO₂ Continuous Emissions Monitoring Systems (CEMS): The permittee shall use data collected from each of the previously installed and certified Acid Rain SO₂ CEMS to demonstrate compliance with the emissions standards specified in this permit. An additional SO₂ CEMS shall be installed prior to the new DFGD and shall be calibrated and certified to record pre-control SO₂ emissions in order to demonstrate the SO₂ removal efficiency of the DFGD. The SO₂ CEMS shall be operated and data recorded during all periods of operation including periods of startup, shutdown, malfunction, or emergency conditions, except for continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments. [40 CFR 60 Appendix A; 40 CFR 75]

Testing Requirements

- B.10.** Initial Compliance Tests. Following installation of the control devices authorized by Conditions B.2. and B.3., compliance tests shall be conducted for particulate matter and visible emissions to demonstrate compliance with the emissions standards specified in Conditions B.7. and B.8. Compliance with the PM standard shall be demonstrated on the average of the 3 required 1-hour test runs. [Rule 62-297.310, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

Emission Units 1 and 2

Design Details and Projected Actual Emission Update

- B.11. Preliminary Design:** The permittee shall as soon as practicable and no later than January 1, 2015, submit to the Department updated project details including the selection of implementation strategies including but not limited to: the capacity and location of the DFGD systems and associated silos; approximate fuel sulfur specifications; contemplated improvements to the electrostatic precipitators, reorientation of components; and contemplated modifications and improvements to coal, ash and any new coal combustion products handling systems. [Rule 62-4.070, F.A.C. (Reasonable Assurance)]
- B.12. Estimates of Projected Actual Emissions:** The permittee shall as soon as practicable and no later than January 1, 2015, submit to the Department updated estimates of baseline actual emissions and future actual emissions of SO₂, Nitrogen oxides (NO_x), carbon monoxide (CO), PM, PM smaller than 10 microns (PM₁₀) and (PM_{2.5}) in accordance with the procedures specified in Rule 62-210.200, F.A.C. [Rules 62-4.070, F.A.C. (Reasonable Assurance) and Rule 62-210.200, F.A.C. (Definitions: Potential-to-Emit, Actual Baseline Emissions; Projected Actual Emissions and Significant Emissions Rate)]

SCENARIO C: ESTABLISH A PERMIT LIMIT TO EXEMPT OUT OF BART.

- C.1. Submission of Permit Application:** If PEF chooses to establish permit conditions sufficient to exempt out of BART, an application for an air construction permit containing a complete 5-factor BART determination clearly indicating control strategies and necessary emissions limits shall be submitted to the Department no later than January 1, 2015. This application shall be submitted along with the notification required in Condition 2.7, above, indicating that exempting out of BART is the chosen emission reduction scenario. [Rules 62-4.070 & 62-296.340, F.A.C.; and, Application No. 0170004-036-AC]
- C.2. Physical Changes Authorized by Exemption Permit:** The authority to make any necessary physical changes pursuant to emissions reduction Scenario C shall be effective upon the effective date of the air construction permit issued according to that chosen scenario. The emissions limitations established by that permit shall become effective as soon as practicable following completion of the physical changes authorized by that permit, but no later than 5 years after the effective date of EPA's approval of these specific requirements in the Florida Regional Haze State Implementation Plan. [Rule 62-4.070, F.A.C. and Application No. 0170004-036-AC]
- C.3. Compliance With Chosen BART Exemption Conditions:** PEF shall complete all necessary physical changes and shall comply with the proposed BART exemption emissions limits no later than January 1, 2018, or within 5 years of EPA's final approval of Florida's final Regional Haze SIP, whichever is later. [Rules 62-4.070 & 62-296.340, F.A.C.; and, Application No. 0170004-036-AC]



**TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION**

APPLICANT

Florida Power Corporation d/b/a
Progress Energy Florida, Inc.
299 First Avenue, North
St. Petersburg, Florida 33701

Crystal River Energy Complex
Facility ID No. 0170004

PROJECT

Project No. 0170004-036-AC
Sulfur Dioxide Emission Standards/Controls for Boilers 1 and 2

COUNTY

Citrus County, Florida

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Division of Air Resource Management
Office of Permitting and Compliance
2600 Blair Stone Road, MS#5505
Tallahassee, Florida 32399-2400

July 31, 2012

1. GENERAL PROJECT INFORMATION

1.1. Air Pollution Regulations

Projects at stationary sources with the potential to emit air pollution are subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The statutes authorize the Department of Environmental Protection (Department) to establish regulations regarding air quality as part of the Florida Administrative Code (F.A.C.), which includes the following applicable chapters: 62-4 (Permits); 62-204 (Air Pollution Control – General Provisions); 62-210 (Stationary Sources – General Requirements); 62-212 (Stationary Sources – Preconstruction Review); 62-213 (Operation Permits for Major Sources of Air Pollution); 62-296 (Stationary Sources - Emission Standards); and 62-297 (Stationary Sources – Emissions Monitoring). Specifically, air construction permits are required pursuant to Chapters 62-4, 62-210 and 62-212, F.A.C.

In addition, the U. S. Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of Federal Regulations (CFR). Part 60 specifies New Source Performance Standards (NSPS) for numerous industrial categories. Part 61 specifies National Emission Standards for Hazardous Air Pollutants (NESHAP) based on specific pollutants. Part 63 specifies NESHAP based on the Maximum Achievable Control Technology (MACT) for numerous industrial categories. The Department adopts these federal regulations in Rule 62-204.800, F.A.C.

1.2. Facility Description and Location

The Progress Energy Crystal River Energy Complex is an existing power plant, which is categorized under Standard Industrial Classification Code No. 4911. Refer to Figures 1 and 2. The existing Crystal River Power Plant is located in Citrus County at 15760 West Power Line Street in Crystal River, Florida.

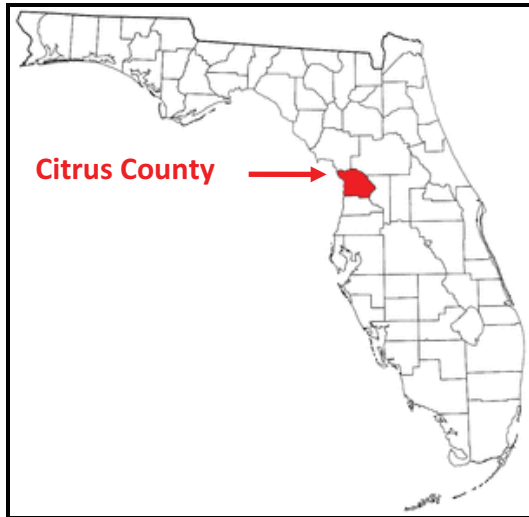


Figure 1. Citrus County, Florida

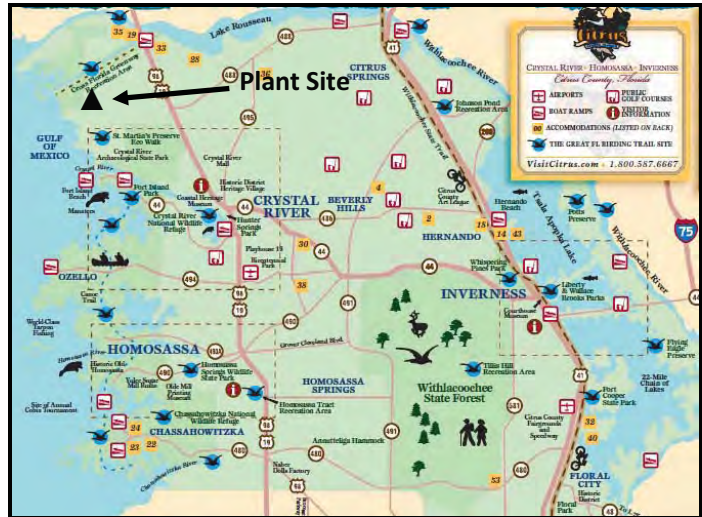


Figure 2. Location of Crystal River Energy Complex

The UTM coordinates of the existing facility are Zone 17, 334.3 km East and 3204.5 km North. This site is in an area that is in attainment (or designated as unclassifiable) for all air pollutants subject to Ambient Air Quality Standards (AAQS).

Table 1 is a summary of Emissions Units (E.U.) from the Facility Title V Air Operation Permit 0170004-036-AV. Units 1 and 2 are the subject of the present permit application. Units 1 and 2 are tangentially-fired, dry bottom pulverized coal-fueled boilers with gross capacity ratings of 440.5 and 523.8 megawatts (MW), respectively. The units commenced commercial operation in 1966 and 1969, respectively.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Table 1. Summary of Emissions Units

| E.U. No. | Brief Description |
|--|---|
| <i>Regulated Emission Units</i> | |
| 001 | Fossil Fuel Steam Generator, Unit 1 |
| 002 | Fossil Fuel Steam Generator, Unit 2 |
| 004 | Fossil Fuel Steam Generator, Unit 4 |
| 003 | Fossil Fuel Steam Generator, Unit 5 |
| 006 | Fly ash transfer (Source 1) from Unit 1 |
| 008 | Fly ash storage silo (Source 3) for Units 1 and 2 |
| 009 | Fly ash transfer (Source 4) from Unit 2 |
| 010 | Fly ash transfer (Source 5) from Unit 2 |
| 014 | Bottom ash storage silo for Units 1 and 2 |
| 012 | Relocatable diesel generators |
| 013 | Cooling towers for Units 1, 2, and 3 |
| 015 | Cooling towers for Units 4 and 5 |
| 016 | Material handling activities for coal-fired steam units |
| 020 | Portable Cooling Towers for Units 1 and 2 |
| 028 | 3500 kW diesel generator associated with Unit 3 |
| 023 | Limestone and Gypsum Material Handling Activities |
| 029 | Diesel fire pump, south yard |
| 030 | Emergency generator (meteorological weather station) |
| <i>Unregulated Emissions Units and/or Activities</i> | |
| 017 | Fuel and lube oil tanks and vents |
| 018 | Sewage treatment, water treatment, lime storage |
| 019 | Two 3500 kW diesel generators associated with Unit 3 |

Unit 1 is equipped with a 499 foot stack and Unit 2 has a 502 foot stack. Each has an electrostatic precipitator (ESP) to control particulate matter (PM) and Low NO_x burners to control nitrogen oxides (NO_x). Each is equipped with Continuous emissions monitoring systems (CEMS) to measure and record NO_x and sulfur dioxide (SO₂) emissions and a continuous opacity monitoring system (COMS) to measure and record the opacity of the exhaust gas.

1.3. Facility Regulatory Categories

- The facility is a major source of hazardous air pollutants (HAP).
- The facility operates units subject to the acid rain provisions of the Clean Air Act.
- The facility is a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

1.4. Application

On June 15, 2012, Progress Energy Florida submitted an air construction permit application for Crystal River Power Plant Units 1 and 2. [Link to Application](#) The application includes the three options listed below.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

1. Commit to cease operation of Crystal River Units 1 and 2 as coal-fired units by December 31, 2020.
2. Install and operate a sulfur dioxide (SO₂) Flue Gas Desulfurization (FGD) system before January 1, 2018, or within 5 years of EPA's final approval of Florida's final Regional Haze SIP, whichever is later, and establish emissions standards of 95 percent sulfur dioxide SO₂ removal efficiency or 0.15 pounds per million Btu heat input (lb/MMBtu) from Crystal River Units 1 and 2 as presumptive Best Available Retrofit Technology (BART).
3. Agree to a permit limit for SO₂ by January 1, 2018 or within 5 years of EPA's final approval of Florida's final Regional Haze State Implementation Plan, whichever is later, at a level sufficient to exempt out of BART.

Details on the SO₂ project are available in a separate document submitted to the Department on May 30, 2012 as the Best Available Retrofit Technology (BART) proposal for Units 1 and 2.

1.5. Project Description

If Crystal River Units 1 and 2 continue to operate as coal-fueled units beyond 2020, the company will install FGD technology. The supplementary information included analyses of wet FGD and dry FGD options. However, the document indicated a preference by the applicant towards the latter due to lower impacts related to water use, volume of coal combustion products (calcium sulfite sludge or gypsum product), and lower capital costs (e.g. less expensive carbon steel).

Fabric filters are often used in conjunction with dry FGD technologies, especially when high efficiency SO₂ removal is required. The reason is that the filter cake (e.g. lime) that builds up in the bags provides additional contact between exhaust gases and reagent compared with an ESP. The Department infers from the information reviewed to-date that a dry FGD technology, including fabric filters is the most likely scenario for the second option listed above.

Refer to Figures 3 and 4. There are various types of dry and semi-dry FGD designs. The discussion below features one of dozens of possible arrangements possible for dry FGD installations at coal-fueled power plants. It is shown here for convenience to explain principles of dry scrubbing. It is not a design proposed by the company or an arrangement specifically recommended by the Department.

The arrangement in Figure 3 was installed at the small AES Greenidge Unit 4 in New York. It features a hydrated lime [Ca(OH)₂] based scrubber and a fabric filter (baghouse) associated with the scrubber to optimize use of the hydrated lime sorbent. The circulating fluidized bed (CFB) scrubber (called TurboSorp[®]) shown in Figure 4 was used within AES Greenidge project.

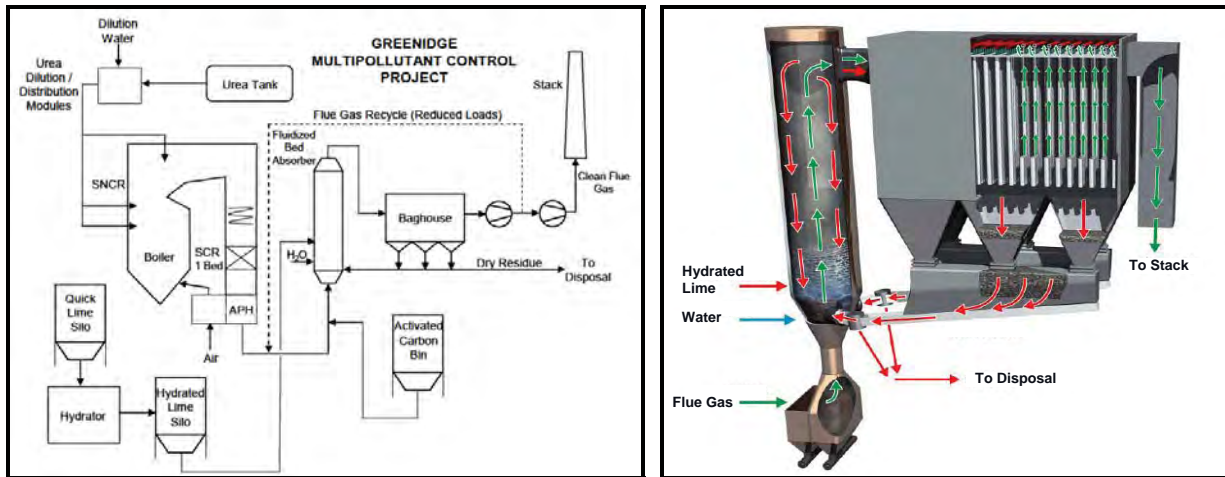


Figure 3. Control System at AES Greenidge Figure 4. Circulating Fluidized Bed Dry Scrubber

To achieve 95% efficiency with a dry scrubber will require a baghouse. To achieve 0.15 lb SO₂/MMBtu without a baghouse will likely require use of lower sulfur coal and require substantial upgrades to the existing ESPs.

1.6. Processing Schedule

May 30, 2012 Received control options document in advance of application.

June 15, 2012 Received application.

July 31, 2012 Issued Draft Permit Package.

2. PSD APPLICABILITY FOR DRY SCRUBBING OPTION

2.1. General PSD Applicability

The Department regulates major stationary sources in accordance with Florida's PSD program pursuant to Rule 62-212.400(PSD), F.A.C. PSD preconstruction review is required in areas that are currently in attainment with the state and federal ambient air quality standards (AAQS) or areas designated as "unclassifiable" for these regulated pollutants.

Commonly addressed PSD pollutants in the power industry include: CO, SO₂, NO_x, PM, PM smaller than 10 micrometers (µm) (PM₁₀), PM smaller than 2.5 µm (PM_{2.5}), volatile organic compounds (VOC), sulfuric acid mist (SAM), lead (Pb), fluorides (F), and mercury (Hg).

Additional PSD pollutants that are more common to certain other industries include: hydrogen sulfide (H₂S), TRS including H₂S, reduced sulfur compounds (RSC) including H₂S, municipal waste combustor (MWC) organics measured as total tetra- through octa-chlorinated dibenzo-p-dioxins and dibenzofurans (dioxin/furan), MWC metals measured as PM; MWC acid gases measured as SO₂ and HCl, and municipal solid waste (MSW) landfill emissions as non-methane organic compounds (NMOC).

As defined in Rule 62-210.200(Definitions), F.A.C., a stationary source is a "major stationary source" (major PSD source) if it emits or has the potential to emit (PTE):

- 250 tons per year (tons/year) or more of any PSD pollutant; or
- 100 tons/year or more of any PSD pollutant and the facility belongs to one of the 28 listed PSD major facility categories.

The list given in the citation includes the category of "fossil fuel-fired steam electric plants of more than 250 million British thermal units per hour heat input". The given category applies to the Crystal River Energy Complex. The Crystal River Energy Complex is a major stationary source based on actual emissions of and potential to emit 100 tons/year or more of several individual PSD pollutants.

For major stationary sources such as the Crystal River Energy Complex, PSD applicability for modification projects is based on thresholds known as the significant emission rates (SER) as defined in Rule 62-210.200 (Definitions), F.A.C. Any "net emissions increase" as defined in Rule 62-210.200 (Definitions), F.A.C. of a PSD pollutant from the project that equals or exceeds the respective SER is considered "significant".

SER also means any emissions rate or any net emissions increase of a PSD pollutant associated with a major stationary source or major modification which would construct within 10 km of a Class I area and have an impact on such area equal to or greater than 1 gram per cubic meter, 24-hour average. Although a facility may be "major" (i.e. emits or has the potential to emit 100 or 250 tons/year as applicable) for only one PSD pollutant, a project must include Best Available Control Technology (BACT) for any PSD pollutant increase in that equals or exceeds the corresponding significant emission rate given in Table 1.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Table 1. List of Significant Emission Rates by PSD-Pollutant Relevant to the Facility ²

| Pollutant | SER (tons/year) | Pollutant | SER (tons/year) |
|---|------------------------|---|------------------------|
| PM | 25 | PM ₁₀ | 15 |
| PM _{2.5} | 10 | PM _{2.5} (NO _x) ¹ | 40 |
| PM _{2.5} (SO ₂) ¹ | 40 | CO | 100 |
| SO ₂ | | NO _x | 40 |
| Ozone (NO _x) ¹ | 40 | Ozone (VOC) ¹ | 40 |
| Sulfuric acid mist (SAM) | 7 | fluoride | 3 |
| mercury | 0.1 | lead | 0.6 |

1. PM_{2.5} is also regulated through precursors (NO_x and SO₂); Ozone (O₃) is regulated through precursors (VOC and NO_x).
 2. There is federal SER of 75,000 tons/year for Greenhouse Gases (GHG) as carbon dioxide equivalent (CO₂e) that has not been incorporated into Department rules.

According to 40 CFR 52.21, six greenhouse gases (GHG), are also subject to regulation at new stationary sources. According to 40 CFR 52.21, six greenhouse gases (GHG), are also subject to regulation at new stationary sources that will emit or have the potential to emit 100,000 tons/year (SER equal to 75,000 tons/year) expressed as the carbon dioxide equivalent emissions (CO₂e). This requirement has not been incorporated into Department rules but is a separate requirement of the EPA.

2.2. PSD Applicability for Project

The project is located in Citrus County, which is in an area that is currently in attainment with the state and federal AAQS or otherwise designated as unclassifiable.

Methodology for Calculations of Baseline Actual Emissions and Projected Actual Emissions

To determine whether the project causes net emissions increases equal to or greater than the respective SER (triggering PSD) requires a comparison of recent “baseline actual emissions” with future “projected actual emissions”. According to Rule 62-210.200(Definitions), F.A.C., for any existing electric utility steam generating unit:

“Baseline actual emissions” means the average rate, in tons per year, at which the unit actually emitted the pollutant during any consecutive 24-month period selected by the owner or operator within the 5-year period immediately preceding the date a complete permit application is received by the Department. The Department shall allow the use of a different time period upon a determination that it is more representative of normal source operation”.

1. The average rate shall include fugitive emissions to the extent quantifiable, and emissions associated with startups and shutdowns.
2. The average rate shall be adjusted downward to exclude any non-compliant emissions that occurred while the source was operating above any emission limitation that was legally enforceable during the consecutive 24-month period.
3. For a PSD pollutant, when a project involves multiple emissions units, only one consecutive 24-month period must be used to determine the baseline actual emissions for the emissions units being changed. A different consecutive 24-month period can be used for each PSD pollutant.
4. The average rate shall not be based on any consecutive 24-month period for which there is inadequate information for determining annual emissions, in tons per year, and for adjusting this amount if required by subparagraph 2., above.

According to Rule 62-210.200(Definitions), F.A.C., for an existing unit (other than an electric steam generating unit):

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

“Projected Actual Emissions” means the maximum annual rate, in tons/year, at which an existing emissions unit is projected to emit a PSD pollutant in any one of the 5 years following the date the unit resumes regular operation after the project, or in any one of the 10 years following that date, if the project involves increasing the emissions unit’s design capacity or its potential to emit that PSD pollutant and full utilization of the unit would result in a significant emissions increase or a significant net emissions increase at the major stationary source. One year is one 12-month period. In determining the projected actual emissions, the Department:

- (a) Shall consider all relevant information, including historical operational data, the company’s own representations, the company’s expected business activity and the company’s highest projections of business activity, the company’s filings with the State or Federal regulatory authorities, and compliance plans or orders, including consent orders; and
- (b) Shall include fugitive emissions to the extent quantifiable and emissions associated with startups and shutdowns; and
- (c) Shall exclude that portion of the unit’s emissions following the project that an existing unit could have accommodated during the consecutive 24-month period used to establish the baseline actual emissions and that are also unrelated to the particular project including any increased utilization due to product demand growth; or
- (d) In lieu of using the method set out in paragraphs (a) through (c) above, may be directed by the owner or operator to use the emissions unit’s potential to emit, in tons per year.

Department’s Assessment of PSD Applicability

Figure 5 is a summary of information derived from the EPA Air Markets Website pertinent to operation of Crystal River Units 1 and 2. During 2007-2008 the combined gross generation capacity of the two units was approximately 61.5% based on the annual gross electric generation reported for these units per EPA and the gross capacity descriptions in the recent permits. In 2011, the combined gross capacity factor was only 33%.

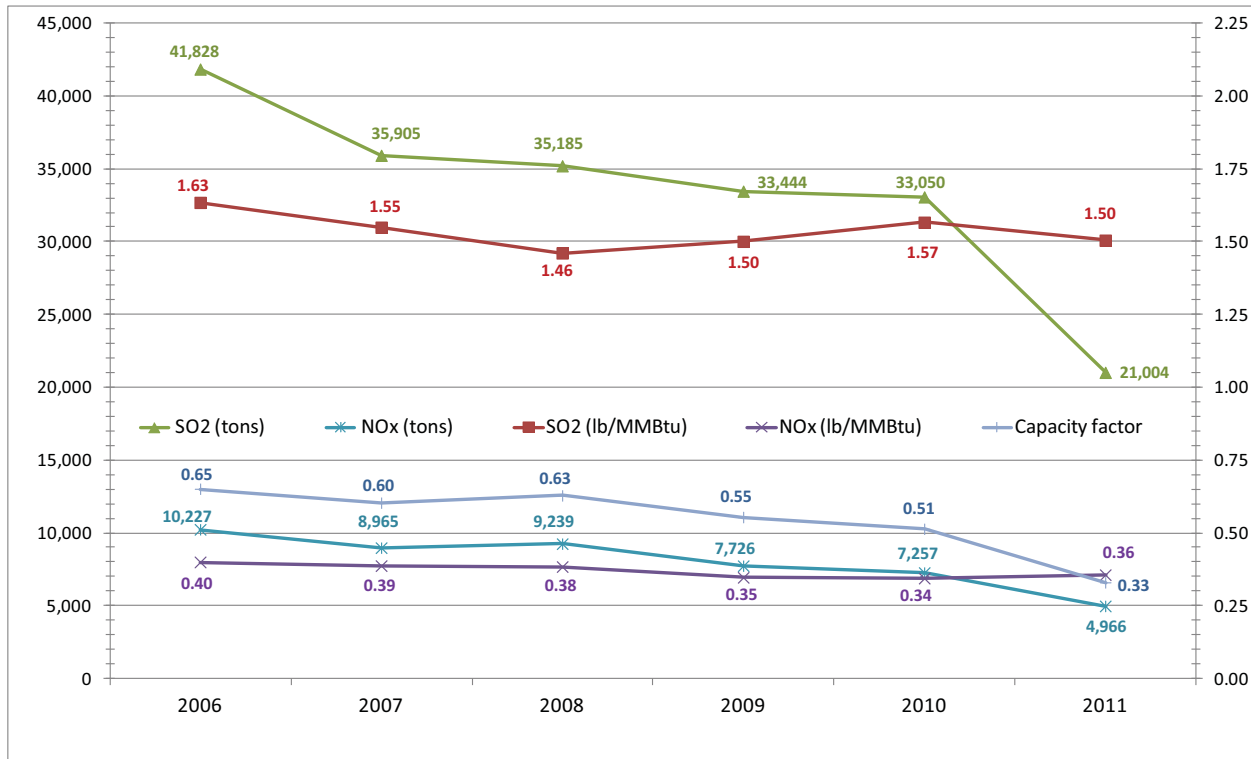


Figure 5. Combined Units 1 and 2 NO_x, SO₂ Emissions and Gross Generation Capacity Factors

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Average combined emissions of SO₂ and NO_x during 2007-2008 were 35,545 tons per year (tons/year) of SO₂ and 9,102 tons/year of NO_x. During 2011, SO₂ and NO_x emissions for 2011 were 21,004 and 4,966 tons/year, respectively.

During 2007-2008, the SO₂ and NO_x emissions factors were 1.5 and 0.385 pounds per million Btu per hour of heat input (lb/MMBtu/hr), respectively. During 2011, the values were 1.5 and 0.33 lb/MMBtu. The permitted SO₂ emission factor for Units 1 and 2 is 2.1 lb SO₂/MMBtu. The annual NO_x emission factor limit is 0.40 lb/MMBtu based on the Acid Rain Program (there is also an alternative limit based on company-wide averaging). Since 2006 emissions of SO₂ and NO_x from Units 1 and 2 have been reduced by approximately 50%.

Although not the subject of the present application, the emission trends at the adjacent Units 4 and 5 are relevant. Refer to Figure 6. Annual emissions and emission factors of both SO₂ and NO_x have been reduced by more than 90%. These reductions equate to 70,000 tons/year of SO₂ and NO_x combined. The reductions were achieved by installation of SCR and wet FGD scrubbers.

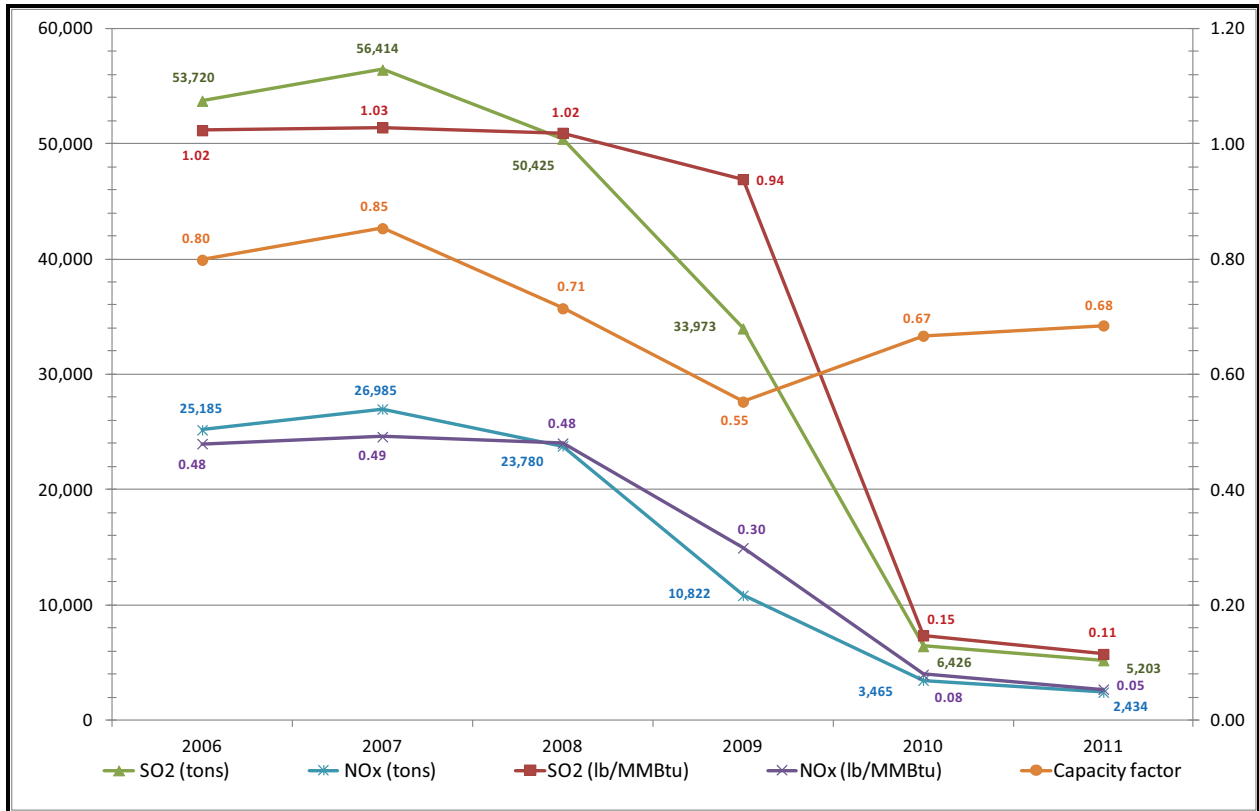


Figure 6. Combined Units 4 and 5 NO_x, SO₂ Emissions and Gross Generation Capacity Factors

Considering the four fossil fuel-fired units at the Crystal River Energy Complex, emissions of SO₂ and NO_x have been reduced by 72.5 and 79.2% since 2006. The reductions in total annual SO₂ and NO_x emissions are approximately 100,000 tons/year.

Because Progress Energy can take credit for the emission reductions to-date (by the PSD netting process) when considering future actual emissions, there is no reasonable scenario under which a future SO₂ control project *including dry scrubbers and baghouses (or ESP improvements)* on Units 1 and 2 can possibly trigger PSD.

On February 26, 2009 the Department issued a permit (0170004-017-AC) incorporating Best Available Retrofit Technology (BART) for Units 1 and 2. [Link to BART Permit](#) The permit includes PM limits for normal and soot blowing operations as follows:

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

3. Particulate Matter Emissions Standard – Steady State Operations. As determined by EPA Method 5 or 17, particulate matter emissions from Units 1 and 2 combined shall not exceed 0.04 lb/MMBtu, on a weighted average basis of the total heat input. Compliance shall be demonstrated on the average of the 3 required 1-hour test runs. [Rule 62-296.340 (BART), F.A.C.]
4. Particulate Matter Emissions Standard – Soot Blowing and Load Change Operations. As determined by EPA Method 5 or 17, particulate matter emissions from Units 1 and 2 combined shall not exceed 0.12 lb/MMBtu, on a weighted average basis of the total heat input. Compliance shall be demonstrated on the average of the 3 required 1-hour test runs. [Rule 62-296.340 (BART), F.A.C.]
5. Opacity Standard – Steady State Operations. As determined by data collected from the existing COMS or EPA 9, visible emissions during steady-state operations from: Unit 1 shall not exceed 30% opacity based on a 6-minute average except for one 6-minute average per hour not to exceed 35% opacity; Unit 2 shall not exceed 15% opacity based on a 6-minute average except for one 6-minute average per hour not to exceed 20% opacity. [Rule 62-296.340 (BART), F.A.C.]
6. Opacity Standard – Soot Blowing and Load Change Operations. As determined by data collected from the existing COMS or EPA 9, visible emissions resulting from soot-blowing and load change operations shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized. In no case shall the duration of such emissions exceed 3 hours in any 24-hour period and visible emissions from: Unit 1 shall not exceed 40% opacity based on a 6-minute average; Unit 2 shall not exceed 25% opacity based on a 6-minute average. A load change occurs when the operational capacity of a unit is in the 10 percent to 100 percent capacity range, other than startup or shutdown, which exceeds 10 percent of the unit's rated capacity and which occurs at a rate of 0.5 percent per minute or more. [Rule 62-296.340 (BART), F.A.C.]

The foregoing conditions and described limitations would not be compatible with the purpose and actual function of new dry scrubbers, if actually installed, on Units 1 and 2. With these conditions, there is not reasonable assurance that increases in PM will not occur once the substantial additional reagent and reaction product loadings are added to the existing fly ash loading.

As an example, it would be reasonable to assume Crystal River Units 1 and 2 (after installing significant air pollution control equipment) will during some years operate at an annual gross capacity factor on the order of 61.5% (like baseline years 2007-2008). To remove on the order of 30,000 tons/year and achieve 0.15 lb SO₂/MMBtu requires formation of roughly 60,000 tons/year of coal combustion products of calcium sulfate or calcium sulfite excluding hydration water present in each species.

If the existing ESPs removed 99% of the additional solids, then the remaining 1% would equal 600 tons/year of PM. At 99.9% removal, the additional PM would equal 60 tons/year.

To provide reasonable assurance that PSD is not triggered for PM/PM₁₀ under the dry FGD option, the Department will limit PM in this permit 0.015 lb PM/MMBtu at both units and limit visible emissions to 15% opacity at both units and 20% under soot blowing and load change operations.

If NO_x reductions such as by further combustion controls are implemented in the future, it is possible that PSD could be triggered for carbon monoxide (CO). Most likely the same combustion controls used for NO_x can be optimized to achieve low CO consistent with a Best Available Control Technology (BACT) determination.

3. RETIREMENT OPTION FOR UNITS 1 AND 2

In late 2008 Progress Energy announced that it planned to shut down Units 1 and 2 in conjunction with the construction of a 1,100 MW nuclear power plant in nearby Levy County. The previously mentioned permit includes the following relevant condition:

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

16. Shutdown of Units 1 and 2. Units 1 and 2 shall cease to operate as coal-fired units by December 31, 2020. This date assumes timely licensing, construction and commencement of commercial operation of PEF's proposed new nuclear units (Levy County Units 1 and 2). The shutdown of Units 1 and 2 coal-fired units is contingent upon completion of the first fuel cycle for Levy County Unit 2. PEF shall timely advise the Department of any developments that would delay the shutdown (or repowering) of Units 1 and 2 beyond the completion of the first fuel cycle for Levy County Unit 2. [Rule 62-296.340 (BART), F.A.C. and Applicant Request].

The Department will in this permitting action supersede the contingent language under the shutdown option contemplated within the present application. The description of the option creates a possible new contingency put forward by the applicant based upon a "remaining useful life" cost-effectiveness evaluation. The procedures for the evaluation are not clear and the caveat will not be included in this condition as it is implicit in the other options.

4. ALTERNATIVE REQUEST

The applicant's third option is to agree a permit limit for SO₂ by January 1, 2018 or within 5 years of EPA's final approval of Florida's final Regional Haze State Implementation Plan, whichever is later, at a level sufficient to exempt out of BART.

This option will be included as a new condition with some minor rewording to clarify that the new permit limit will be effective on January 1, 2018 and that the agreement will occur well before that date. The Department would require additional information in the future to insure that PSD is not triggered or would require submittal of a PSD application for increases in foreseen or as-yet unforeseen collateral emission increases in PSD pollutants such as PM, PM₁₀ and CO.

5. PRELIMINARY DETERMINATION

The permit will authorize the applicant to proceed with a DFGD project and will require improvements to the existing ESPs and/or installation of baghouses in conjunction with the DFGD systems. The Department will include the requested SO₂ emission standard of 95% SO₂ removal or 0.15 lb/MMBtu, whichever is less stringent. The emissions standard shall become effective upon the effective date of EPA's approval of these specific requirements in the Florida Regional Haze State Implementation Plan. Thereafter, the compliance date for the requested emission standards shall be no later than January 1, 2018, or within 5 years of the effective date of EPA's approval of this specific requirement in the Florida Regional Haze State Implementation Plan, whichever is later.

Additional details of this analysis may be obtained by contacting the project engineer at leigh.pell@dep.state.fl.us, 850/717-9033, or the Department's Office of Permitting and Compliance, 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400.



BART DETERMINATION FOR CRYSTAL RIVER POWER PLANT UNITS 1 AND 2

Progress Energy Florida, Inc.

REPORT

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Table of Contents

- 1.0 INTRODUCTION..... 1
- 2.0 DESCRIPTION OF BART-ELIGIBLE EMISSIONS UNITS..... 3
 - 2.1 EMISSION RATES..... 3
 - 2.2 MODELING METHODOLOGY..... 4
 - 2.3 BART EXEMPTION MODELING RESULTS 7
- 3.0 REQUIREMENTS FOR ANALYSIS OF BART CONTROL OPTIONS 8
- 4.0 BART ANALYSIS 17
 - 4.1 SO₂ Emissions 17
 - 4.1.1 Available Retrofit Control Technologies..... 17
 - 4.1.2 Control Technology Feasibility..... 17
 - 4.1.3 Control Effectiveness of Options..... 19
 - 4.1.4 Impacts of Control Technology Options..... 19
 - 4.1.5 Visibility Impacts..... 23
 - 4.1.6 Selection of BART 24
 - 4.2 NO_x Emissions 24

List of Tables

- Table 1A BART Modeling Data Input – Baseline Scenario
- Table 2A PM Speciation Summary for Units 1 and 2 – Baseline Scenario
- Table 3A Summary of BART Modeling Results, New IMPROVE Algorithm – Baseline Scenario
- Table 4A Visibility Rankings at PSD Class I Area – Baseline Scenario
- Table 1B BART Modeling Data Input – Compliance Coal
- Table 2B PM Speciation Summary for Units 1 and 2 – Compliance Coal
- Table 3B Summary of BART Modeling Results, New IMPROVE Algorithm – Compliance Coal
- Table 4B Visibility Rankings at PSD Class I Area – Compliance Coal
- Table 1C BART Modeling Data Input – PRB Coal
- Table 2C PM Speciation Summary for Units 1 and 2 – PRB Coal
- Table 3C Summary of BART Modeling Results, New IMPROVE Algorithm – PRB Coal
- Table 4C Visibility Rankings at PSD Class I Area – PRB Coal
- Table 1D BART Modeling Data Input – FGD Unit
- Table 2D PM Speciation Summary for Units 1 and 2 – FGD Unit
- Table 3D Summary of BART Modeling Results, New IMPROVE Algorithm – FGD Unit
- Table 4D Visibility Rankings at PSD Class I Area – FGD Unit
- Table 5 Summary of SO₂ BACT Determinations for Coal-Fired Utility Boilers
- Table 6 Cost Effectiveness of Fuel Switching for Crystal River Units 1 and 2
- Table 7 Cost Effectiveness of FGD System for Crystal River Units 1 and 2





1.0 INTRODUCTION

This submission is made in a cooperative effort to address regional haze rule (RHR) implementation issues resulting from recent regulatory developments related to EPA's Clean Air Interstate Rule (CAIR) and its successor, the Cross-State Air Pollution Rule (CSAPR). CSAPR is currently stayed, and CAIR remains in effect, pending judicial review of CSAPR. Depending on the court's decision on CSAPR, Progress may revisit, revise, or withdraw this proposal.

Progress Energy Florida, Inc. (PEF) owns and operates the Crystal River Power Plant (Facility ID No. 0170004) located on Power Line Road, West of U.S. Highway 19, Crystal River, in Citrus County, Florida. A Best Available Retrofit Technology (BART) determination analysis for particulate matter (PM) emissions from the BART-eligible emissions units (i.e., Unit No. 1 and Unit No. 2) at the Crystal River Power Plant was previously submitted to the Florida Department of Environmental Protection (FDEP) in 2007. This current report presents a revised BART determination analysis, which includes BART determinations for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) emissions from the BART-eligible emissions units at the Crystal River Plant.

Pursuant to Section 403.061(35), Florida Statutes, the federal Clean Air Act (CAA), and the regional haze regulations contained in Title 40, Part 51 of the Code of Federal Regulations (40 CFR 51), Subpart P – Protection of Visibility, the Florida Department of Environmental Protection (FDEP) is required to ensure that certain sources of visibility impairing pollutants in Florida use BART to reduce the impact of their emissions on regional haze in federal Prevention of Significant Deterioration (PSD) Class I areas. Requirements for individual source BART control technology determinations and for BART exemptions are contained in Rule 62-296.340 of the Florida Administrative Code (F.A.C.), which states that a BART-eligible source may demonstrate that it is exempt from the requirement for BART determination for all pollutants by performing an individual source attribution analysis in accordance with the procedures contained in 40 CFR 51, Appendix Y. A BART-eligible source is exempt from BART determination requirements if its contribution to visibility impairment, as determined below, does not exceed 0.5 deciview (dv) above natural conditions in any Class I area [Rule 62-296.340(5)(c), F.A.C.].

The previous BART analysis for PM was based on Rule 62-296.340(5)(c), F.A.C., which states that, for electric generating units subject to the Clean Air Interstate Rule (CAIR) Program, the source attribution analysis need only consider PM emissions (including primary sulfate) for comparison with the contribution threshold. A BART permit was issued on February 25, 2009 (permit No. 0170004-017-AC), which imposed a revised allowable PM emission limit. Specifically, PM emissions from Units 1 and 2 combined are not to exceed 0.04 lb/mmBtu on a weighted average basis of the total heat input during steady state operations and 0.12 lb/mmBtu on a weighted average basis of the total heat input (not to exceed 3 hours in any 24-hour period) during steady state operations. Compliance with these revised standards is to be demonstrated no later than December 31, 2013. Further, the permit assumes that Units 1 and 2 will cease to be operated as coal-fired units by December 31, 2020. The permit requires PEF to notify the



Department of any developments that would delay the shutdown (or repowering) of Units 1 and 2 beyond this date.

On July 6, 2011, EPA finalized the Cross-State Air Pollution Rule (CSAPR), which was to replace CAIR starting in 2012. CSAPR has different emission requirements for NO_x and SO_2 . Under CSAPR, the understanding under CAIR that compliance with CAIR requirements satisfied BART requirements for EGUs is no longer valid. EPA is developing a rule that would determine whether CSAPR is better than BART using a two-prong test and appropriate air quality modeling. The Federal Register notice for the final rule of CSAPR said that “EPA has not conducted any technical analysis to determine whether compliance with the Transport Rule would satisfy Reasonably Available Control Technology (RACT) requirements for EGUs in any nonattainment areas or Regional Haze BART-related requirements. For that reason, EPA is neither making determinations nor establishing any presumptions that compliance with the Transport Rule satisfies any RACT- or BART-related requirements for EGUs.”

However, on December 30, 2011, the United States Court of Appeals for the D.C. Circuit issued its ruling to stay CSAPR pending judicial review. As a result, CAIR has been put back into effect. The court set a speedy path to hear the legal arguments in the case, which were presented to the U.S. Court of Appeals in Washington, D.C. on April 13, 2012. However, a final ruling on CSAPR may not come until later this year or possibly in 2013.

It is expected that CSAPR is most likely to be reinstated in principal with the similar provisions as currently promulgated. If CSAPR is determined to be an alternative program that may substitute for source-specific BART, then the same BART modeling analyses for the Crystal River Power Plant conducted in 2007 should still be valid. However, the current version of CSAPR has different requirements for different states. For example, in Florida, it does not regulate SO_2 emissions and only has ozone-season NO_x emissions requirements. As a result, the BART exemption analysis for the Crystal River Power Plant, which was previously based on visibility impacts due to PM emissions only, needs to be re-evaluated, including PM, NO_x and SO_2 and sulfate emissions.

A description of the BART-eligible emissions units, a description of the modeling methodology, and the results of the BART exemption analysis are presented in Section 2.0. Regulatory requirements for the BART determination (control options) analysis are presented in Section 3.0. The BART determination analysis is presented in Section 4.0.

The source information and methodologies used for the BART determination are the same as those presented in the document entitled “Air Modeling Protocol to Evaluate Best Available Retrofit Technology (BART) Options for Affected Progress Energy Florida Plants”, commonly known as the “BART Protocol”. The BART Protocol was previously submitted to FDEP in January 2007.



2.0 DESCRIPTION OF BART-ELIGIBLE EMISSIONS UNITS

The BART-eligible emissions units at the Crystal River Power Plant include two fossil fuel steam generators (FFSGs), further characterized as pulverized coal dry bottom, tangentially-fired boilers, designated as Unit No. 1 and Unit No. 2. Unit No. 1 is a nominal 440.5 megawatt (MW) class (electric) steam generator while Unit No. 2 is a nominal 523.8 MW class (electric) steam generator. The units may burn bituminous coal or a bituminous coal and bituminous coal briquette mixture. Distillate fuel oil may be burned as a startup fuel.

The Crystal River Power plant is located at Universal Transverse Mercator (UTM) coordinates: 334.3 kilometers (km) East, 3,204.5 km North in UTM Zone 17. An area map showing the Plant and PSD Class I areas located within 300 km of the plant is presented in Figure 1-1 of the BART Protocol. The PSD Class I areas which were evaluated include:

- Saint Marks NWA - 174 km
- Chassahowitzka National Wilderness Area (NWA) - 21 km
- Wolf Island NWA - 293 km
- Okefenokee NWA- 178 km

The PSD Class I of the Bradwell Bay NWA is located within 300 km of the Crystal River Power Plant; however visibility impairment is not required to be addressed for this area.

The stack, operating, and PM emission data, including PM speciation, for the BART-eligible emissions units were presented in detail in the BART Protocol previously submitted to FDEP. The emissions units are regulated under Acid Rain-Phase II, Fossil Fuel Steam Generators with more than 250 million Btu per Hour Heat Input (Rule 62-296.405, F.A.C.), Best Available Retrofit Technology (BART) requirements (Rule 62-296.340, F.A.C.) and the Clean Air Interstate Rule (CAIR) requirements under 62-296.470, F.A.C.

As noted in the BART protocol and based on discussions with FDEP, building downwash effects were considered for the Crystal River Power Plant as the facility is located within 50 km of the closest PSD Class I area.

2.1 EMISSION RATES

Emission rates used in the Crystal River BART analysis were presented in the BART Protocol previously submitted to FDEP (only PM emission rates were included). This revised BART analysis includes SO₂ and NO_x emissions in addition to the PM emissions.

The EPA BART guidelines indicate that the emission rate to be used for BART modeling is the highest 24-hour actual emission rate representative of normal operations for the modeling period. Depending on



the availability of the source data, the source emissions information should be based on the following, in order of priority based on the BART common protocol:

- 24-hour maximum emissions based on continuous emission monitoring (CEM) data for the period 2001 to 2003
- Facility stack test emissions
- Potential to emit
- Allowable permit limits
- AP-42 emission factors

Table 1A presents the stack data, operating parameters, and emissions of SO₂, NO_x, and PM for the baseline (i.e., exemption) scenario. The SO₂ and NO_x emission rates are based on the maximum actual 24-hour average rate from the period 2001 to 2003 which were obtained from the CEM data.

The PM emissions rates are based on stack test data. Based on the latest regulatory guidance, PM emissions by size category are required to be considered in the appropriate species for the visibility analysis. The effect that each species has on visibility impairment is related to a parameter called the extinction coefficient. The higher the extinction coefficient, the greater the species' affect on visibility. Filterable PM is speciated into coarse (PMC), fine (PMF), and elemental carbon (EC), with default extinction efficiencies of 0.6, 1.0, and 10.0, respectively. PMC is PM with aerodynamic diameter between 10 microns and 2.5 microns. Both EC and PMF have aerodynamic diameters equal to or less than 2.5 microns. Condensable PM is comprised of inorganic PM such as sulfate (SO₄) and organic PM such as secondary organic aerosols (SOA).

The PM emissions from the BART-eligible units at the Crystal River plant were speciated into the recommended size and species categories using EPA's Compilation of Air Pollutant Emission Factors, AP-42 (fifth edition). The species categories for Crystal River Units 1 and 2 were determined from the speciation profile for a "dry bottom boiler burning pulverized coal with ESP" provided in Table 1.1-5 in AP-42. The different size categories were determined from particle size distribution for "dry bottom PC boilers with ESP" provided in Table 1.1-6 in AP-42. The PM speciation data for the exemption scenario are presented in Table 2A (also presented with the BART Protocol previously submitted to FDEP).

2.2 MODELING METHODOLOGY

The CALPUFF model, Version 5.756, also known as the "BART Version CALPUFF", was used to predict the maximum visibility impairment at each of the four PSD Class I areas located within 300 km of the Crystal River Power Plant identified above. This version of CALPUFF, together with the post-processing programs associated with the BART Version of CALPUFF (i.e., POSTUTIL, CALPOST), were also used in the current BART modeling which includes SO₂ and NO_x emissions.



The methods and assumptions used in the CALPUFF model were previously presented in the BART Protocol. The 4-km spacing Florida domain was used for the BART exemption. The refined CALMET domain used for the BART modeling analysis has been provided by FDEP. The major features used in preparing these CALMET data have also been described in Section 4.0 of the BART Protocol.

Based on FDEP guidelines, the 98th percentile, i.e., the 8th highest 24-hour average visibility impairment value in any year or the 22nd highest 24-hour average visibility impairment value over 3 years combined, whichever is higher, is compared to 0.5 dv in the source attribution analysis.

Based on the Visibility Improvement State and Tribal Association of the Southeast (VISTAS) recommendation, Visibility Method 6 was used in the BART-related modeling, which will compute extinction coefficients for hygroscopic species (modeled and background) using a monthly $f(RH)$ in lieu of calculating hourly RH factors. Monthly RH values from Table A-3 of EPA's *Guidance for Estimating Natural Visibility Conditions Under the Regional Haze Rule* (Haze Guideline) was used. Monthly $f(RH)$ factors for the Class I areas within 300 km of the Crystal River Plant are as follows:

| Month | Saint Marks NWA | Chassahowitzka NWA | Wolf Island NWA | Okefenokee NWA |
|-----------|-----------------|--------------------|-----------------|----------------|
| January | 3.7 | 3.8 | 3.4 | 3.5 |
| February | 3.4 | 3.5 | 3.1 | 3.2 |
| March | 3.4 | 3.4 | 3.0 | 3.1 |
| April | 3.4 | 3.2 | 3.0 | 3.0 |
| May | 3.5 | 3.3 | 3.3 | 3.6 |
| June | 4.0 | 3.9 | 3.7 | 3.7 |
| July | 4.1 | 3.9 | 3.7 | 3.7 |
| August | 4.4 | 4.2 | 4.1 | 4.1 |
| September | 4.2 | 4.1 | 4.0 | 4.0 |
| October | 3.8 | 3.9 | 3.7 | 3.8 |
| November | 3.7 | 3.7 | 3.5 | 3.5 |
| December | 3.8 | 3.9 | 3.5 | 3.6 |

Method 6 requires input of natural background (BK) concentrations of ammonium sulfate (BKSO₄), ammonium nitrate (BKNO₃), coarse particulates (BKPMC), organic carbon (BKOC), soil (BKSOIL), and



elemental carbon (BKEC) in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). The model then calculates the natural background light extinction and haze index based on these values.

According to FDEP recommendations, the natural background light extinction may be based on haze index (HI) values (in dv) for either the annual average or the 20-percent best visibility days provided by EPA in Appendix B of the Haze Guideline document (using the 10th percentile HI value). For this BART analysis, the annual average HI values were used to determine natural background light extinction of the Class I areas. The light extinction coefficient in inverse megameters (Mm^{-1}) is based on the concentration of the visibility impairing components and the extinction efficiency, in square meters per gram (m^2/g), for each component.

Per VISTAS and FDEP recommendations, the natural background light extinction that is equivalent to EPA-provided background HI values for each Class I area, based on the annual average, were estimated using the following background values:

- Rayleigh scattering = 10 Mm^{-1} ;
- Concentrations of BKSO_4 , BKNO_3 , BKPMC , BKEC , and BKEC = 0.0 ; and
- BKSOIL concentration, which is estimated from the extinction coefficient that corresponds to EPA's HI value (corresponding to the annual average) and then subtracting the Rayleigh scattering of 10 Mm^{-1} (assumes that the extinction efficiency of soil is $1 \text{ m}^2/\text{g}$). The BKSOIL concentration is estimated by subtracting the Rayleigh scattering of 10 Mm^{-1} from the extinction coefficient that corresponds to EPA's haze index value for the annual average light extinction coefficient, then dividing the remainder by the BKSOIL extinction efficiency of $1 \text{ m}^2/\text{g}$.

According to Appendix B of the Haze Guidance document, the annual average light extinction coefficients for each Class I area and corresponding calculated BKSOIL concentrations are as follows:

- Saint Marks NWA – 21.53 Mm^{-1} (equivalent to 7.67 dv); $11.53 \mu\text{g}/\text{m}^3$;
- Chassahowitzka NWA – 21.45 Mm^{-1} (equivalent to 7.63 dv); $11.45 \mu\text{g}/\text{m}^3$;
- Wolf Island – 21.33 Mm^{-1} (equivalent to 7.58 dv); $11.33 \mu\text{g}/\text{m}^3$; and
- Okefenokee NWA – 21.40 Mm^{-1} (equivalent to 7.61 dv); $11.40 \mu\text{g}/\text{m}^3$.

The atmospheric light extinction estimation technique using an algorithm developed by the Interagency Monitoring of Protected Visual Environments (IMPROVE) committee, which was adopted by the EPA under the 1999 Regional Haze Rule (RHR) and referred to as the "1999 IMPROVE" algorithm, was used in this revised analysis. This algorithm for estimating light extinction from particle speciation data tends to underestimate light extinction for the highest haze conditions and overestimate it for the lowest haze conditions, and does not include light extinction due to sea salt, which is important at sites near



seacoasts. As a result of these limitations, the IMPROVE Steering Committee developed the “new IMPROVE algorithm” for estimating light extinction from particulate matter component concentrations, which provides a better correspondence between measured visibility and that calculated from particulate matter component concentrations. A detailed description of the new IMPROVE algorithm and its implementation was presented in Section 3.4 of the BART Protocol.

Visibility impacts were predicted at the PSD Class I areas using receptors provided by the National Park Service (NPS).

2.3 BART EXEMPTION MODELING RESULTS

Summaries of the maximum visibility impairment values for the Crystal River BART-eligible emission units estimated using the new IMPROVE algorithm, are presented in Tables 3A and 4A. The 98th percentile (i.e., 8th highest) 24-hour average visibility impairment values for the years 2001, 2002, and 2003, and the 22nd highest 24-average visibility impairment values over the three years, are presented in Table 3A. The 8th highest visibility impairment values predicted at each PSD Class I area for each year are presented in Table 4A.

As shown in Tables 3A and 4A, the 8th highest visibility impairment values predicted for each year at all of the PSD Class I areas using the 1999 IMPROVE algorithm are greater than 0.5 dv. The 22nd highest visibility impairment value predicted over the 3-year period at this PSD Class I area is also greater than 0.5 dv. As a result, the Crystal River Power Plant is subject to the BART requirements, and a BART determination analysis for PM, SO₂, and NO_x is required for each of the BART-eligible emissions units at the plant.



3.0 REQUIREMENTS FOR ANALYSIS OF BART CONTROL OPTIONS

The visibility regulations define BART as follows:

Best Available Retrofit Technology (BART) means an emission limitation based on the degree of reduction achievable through the application of the best system of continuous emission reduction for each pollutant which is emitted by . . . [a BART-eligible source]. The emission limitation must be established, on a case-by-case basis, taking into consideration the technology available, the costs of compliance, the energy and non-air quality environmental impacts of compliance, any pollution control equipment in use or in existence at the source, the remaining useful life of the source, and the degree of improvement in visibility which may reasonably be anticipated to result from the use of such technology.

The BART analysis identifies the best system of continuous emission reduction, taking into account:

- (1) The available retrofit control options;
- (2) Any pollution control equipment in use at the source (which affects the availability of options and their impacts);
- (3) The costs of compliance with control options;
- (4) The remaining useful life of the facility;
- (5) The energy and non-air quality environmental impacts of control options; and
- (6) The visibility impacts analysis.

Once it is determined that a source is subject to BART for a particular pollutant, then for each affected emission unit, BART must be established for that pollutant. The BART determination must address air pollution control measures for each emissions unit or pollutant emitting activity subject to review.

The five basic steps of a case-by-case BART analysis are:

- STEP 1 – Identify All Available Retrofit Control Technologies
- STEP 2 – Eliminate Technically Infeasible Options
- STEP 3 – Evaluate Control Effectiveness of Remaining Control Technologies
- STEP 4 – Evaluate Impacts and Document the Results
- STEP 5 – Evaluate Visibility Impacts

Based on descriptions provided in 40 CFR 51 Appendix Y, Guidelines for BART Determinations Under the Regional Haze Rule, each of these steps is described briefly in the following sections.

STEP 1 – Identify All Available Retrofit Control Technologies

Available retrofit control options are those air pollution control technologies with a practical potential for application to the emissions unit and the regulated pollutant under evaluation. In identifying “all” options,



the most stringent option and a reasonable set of options for analysis that reflects a comprehensive list of available technologies must be identified. It is not necessary to list all permutations of available control levels that exist for a given technology – the list is complete if it includes the maximum level of control each technology is capable of achieving.

Air pollution control technologies can include a wide variety of available methods, systems, and techniques for control of the affected pollutant. Technologies required as Best Available Control Technology (BACT) or Lowest Achievable Emission Rate (LAER) are available for BART purposes and must be included as control alternatives. The control alternatives can include not only existing controls for the source category in question but also take into account technology transfer of controls that have been applied to similar source categories and gas streams. Technologies that have not yet been applied to (or permitted for) full scale operations do not need to be considered, and purchase or construction of a process or control device that has not already been demonstrated in practice is not expected.

Where a New Source Performance Standard (NSPS) exists for a source category (which is the case for most of the categories affected by BART), a level of control equivalent to the NSPS as one of the control options should be included. The NSPS standards are codified in 40 CFR 60.

Potentially applicable retrofit control alternatives can be categorized in three ways.

- Pollution prevention: use of inherently lower-emitting processes/practices, including the use of control techniques (e.g. low-NO_x burners) and work practices that prevent emissions and result in lower “production-specific” emissions
- Use of (and where already in place, improvement in the performance of) add-on controls, such as scrubbers, fabric filters, thermal oxidizers, and other devices that control and reduce emissions after they are produced
- Combinations of inherently lower-emitting processes and add-on controls

In the course of the BART review, one or more of the available control options may be eliminated from consideration because they are demonstrated to be technically infeasible or to have unacceptable energy, cost, or non-air quality environmental impacts on a case-by-case (or site-specific) basis.

EPA does not consider BART as a requirement to redesign the source when considering available control alternatives. For example, where the source subject to BART is a coal-fired electric generator, EPA does not require the BART analysis to consider building a natural gas-fired electric turbine although the turbine may be inherently less polluting on a per unit basis.

For emission units subject to a BART review, there will often be control measures or devices already in place. For such emission units, it is important to include control options that involve improvements to existing controls and not to limit the control options only to those measures that involve a complete replacement of control devices.



If a BART source has controls already in place that are the most stringent controls available (this means that all possible improvements to any control devices have been made), then it is not necessary to comprehensively complete each following step of the BART analysis. As long as these most stringent controls available are made federally enforceable for the purpose of implementing BART for that source, the remaining analyses may be skipped, including the visibility analysis in Step 5. Likewise, if a source commits to a BART determination that consists of the most stringent controls available, then there is no need to complete the remaining analyses.

STEP 2 – Eliminate Technically Infeasible Options

In Step 2, the source evaluates the technical feasibility of the control options identified in Step 1. The source should document a demonstration of technical infeasibility and should explain, based on physical, chemical, or engineering principles, why technical difficulties would preclude the successful use of the control option on the emissions unit under review. The source may then eliminate such technically infeasible control options from further consideration in the BART analysis.

Control technologies are technically feasible if either (1) they have been installed and operated successfully for the type of source under review under similar conditions, or (2) the technology could be applied to the source under review. Two key concepts are important in determining whether a technology could be applied: “availability” and “applicability.” A technology is considered “available” if the source owner may obtain it through commercial channels, or it is otherwise available within the common sense meaning of the term. An available technology is “applicable” if it can reasonably be installed and operated on the source type under consideration. A technology that is available and applicable is technically feasible.

Where it is concluded that a control option identified in Step 1 is technically infeasible, the source should demonstrate that the option is either commercially unavailable, or that specific circumstances preclude its application to a particular emission unit. Generally, such a demonstration involves an evaluation of the characteristics of the pollutant-bearing gas stream and the capabilities of the technology. Alternatively, a demonstration of technical infeasibility may involve showing that there are un-resolvable technical difficulties with applying the control to the source (e.g., size of the unit, location of the proposed site, operating problems related to specific circumstances of the source, space constraints, reliability, or adverse side effects on the rest of the facility). Where the resolution of technical difficulties is merely a matter of increased cost, the technology should be considered as technically feasible. The cost of a control alternative is considered later in the process.



STEP 3 – Evaluate Control Effectiveness of Remaining Control Technologies

Step 3 involves evaluating the control effectiveness of all the technically feasible control alternatives identified in Step 2 for the pollutant and emissions unit under review. Two key issues in this process include:

- (1) Ensuring that the degree of control is expressed using a metric that ensures an “apples to apples” comparison of emissions performance levels among options
- (2) Giving appropriate treatment and consideration of control techniques that can operate over a wide range of emission performance levels

This issue is especially important when comparing inherently lower-polluting processes to one another or to add-on controls. In such cases, it is generally most effective to express emissions performance as an average steady state emissions level per unit of product produced or processed, such as pounds of emissions per million British thermal units (lb/MMBtu) of heat input.

Many control techniques, including both add-on controls and inherently lower polluting processes, can perform at a wide range of levels. Scrubbers and high and low efficiency electrostatic precipitators (ESPs) are two of the many examples of such control techniques that can perform at a wide range of levels. It is important that in analyzing the technology one take into account the most stringent emission control level that the technology is capable of achieving. Recent regulatory decisions and performance data (e.g., manufacturer’s data, engineering estimates and the experience of other sources) should be considered when identifying an emissions performance level or levels to evaluate.

For retrofitting existing sources in addressing BART, one should consider ways to improve the performance of existing control devices, particularly when a control device is not achieving the level of control that other similar sources are achieving in practice with the same device. For example, one should consider improving performance when sources with ESPs are performing below currently achievable levels.

STEP 4 – Evaluate Impacts and Document the Results

After identifying the available and technically feasible control technology options, the following analyses should be conducted when making the BART determination:

- Costs of compliance
- Energy impacts
- Non-air quality environmental impacts
- Remaining useful life

The source should discuss and, where possible, quantify both beneficial and adverse impacts. In general, the analysis should focus on the direct impact of the control alternative.



Costs of Compliance

To conduct a cost analysis, the following steps are used:

- (1) Identify the emissions units being controlled
- (2) Identify design parameters for emission controls
- (3) Develop cost estimates based upon those design parameters

It is important to identify clearly the emission units being controlled, i.e., to specify a well-defined area or process segment within the plant. In some cases, multiple emission units can be controlled jointly. Then, the control system design parameters should be specified. The value selected for the design parameter should ensure that the control option will achieve the level of emission control being evaluated. The source should include documentation of the assumptions regarding design parameters. Examples of supporting references include the EPA Office of Air Quality Planning and Standards (OAQPS) Control Cost Manual and background information documents used for NSPS and hazardous pollutant emission standards.

Once the control technology alternatives and achievable emissions performance levels have been identified, the source must develop estimates of capital and annual costs. The basis for equipment cost estimates should also be documented, either with data supplied by an equipment vendor (i.e., budget estimates or bids) or by a referenced source (such as the OAQPS Control Cost Manual, Sixth Edition, February 2002). To maintain and improve consistency, cost estimates should be based on the OAQPS Control Cost Manual, where possible. The Control Cost Manual addresses most control technologies in sufficient detail for a BART analysis. The cost analysis should also take into account any site-specific design or other conditions identified above that affect the cost of a particular BART technology option.

Cost effectiveness, in general, is a criterion used to assess the potential for achieving an objective in the most economical way. For purposes of air pollutant analysis, “effectiveness” is measured in terms of tons of pollutant emissions removed, and “cost” is measured in terms of annualized control costs. EPA recommends two types of cost-effectiveness calculations – average cost effectiveness, and incremental cost effectiveness.

Average cost effectiveness means the total annualized costs of control divided by annual emissions reductions (the difference between baseline annual emissions and the estimate of emissions after controls). Because costs are calculated in (annualized) dollars per year (\$/yr) and emission rates are calculated in tons per year (tons/yr), the result is an average cost-effectiveness number in (annualized) dollars per ton (\$/ton) of pollutant removed.

The baseline emissions rate should represent a realistic depiction of anticipated annual emissions for the source. In general, for the existing sources subject to BART, the anticipated annual emissions will be estimated based upon actual emissions from a baseline period.



When future operating parameters (e.g., limited hours of operation or capacity utilization, type of fuel, raw materials or product mix or type) are projected to differ from past practice, and if this projection has a deciding effect in the BART determination, then these parameters or assumptions are to be translated into enforceable limitations. In the absence of enforceable limitations, baseline emissions are calculated based upon continuation of past practice.

In addition to the average cost effectiveness of a control option, the incremental cost effectiveness should also be calculated. The incremental cost effectiveness calculation compares the costs and performance level of a control option to those of the next most stringent option, as shown in the following formula (with respect to cost per emissions reduction):

$$\text{Incremental Cost Effectiveness (dollars per incremental ton removed)} = \frac{[(\text{Total annualized costs of control option}) - (\text{Total annualized costs of next control option})]}{[(\text{Control option annual emissions}) - (\text{Next control option annual emissions})]}$$

Energy Impacts

The energy requirements of the control technology should be analyzed to determine whether the use of that technology results in energy penalties or benefits. If such benefits or penalties exist, they should be quantified to the extent practicable. Because energy penalties or benefits can usually be quantified in terms of additional cost or income to the source, the energy impact analysis can, in most cases, simply be factored into the cost impacts analysis.

The energy impact analysis should consider only direct energy consumption and not indirect energy impacts. The energy requirements of the control options should be shown in terms of total (and in certain cases, also incremental) energy costs per ton of pollutant removed. Then these units can be converted into dollar costs and, where appropriate, can be factored into the control cost analysis. Indirect energy impacts (such as energy to produce raw materials for construction of control equipment) are generally not considered.

The energy impact analysis may also address concerns over the use of locally scarce fuels. The designation of a scarce fuel may vary from region to region. However, in general, a scarce fuel is one that is in short supply locally and can be better used for alternative purposes, or one that may not be reasonably available to the source either at the present time or in the near future.

Non-Air Quality Environmental Impacts

In the non-air quality related environmental impacts portion of the BART analysis, environmental impacts other than air quality due to emissions of the pollutant in question are addressed. Such environmental impacts include solid or hazardous waste generation and discharges of polluted water from a control device.



Any significant or unusual environmental impacts associated with a control alternative that have the potential to affect the selection or elimination of a control alternative should be identified. Some control technologies may have potentially significant secondary environmental impacts. Scrubber effluent, for example, may affect water quality and land use. Alternatively, water availability may affect the feasibility and costs of wet scrubbers. Other examples of secondary environmental impacts could include hazardous waste discharges, such as spent catalysts or contaminated carbon.

In general, the analysis need only address those control alternatives with any significant or unusual environmental impacts that have the potential to affect the selection of a control alternative, or elimination of a more stringent control alternative. Thus, any important relative environmental impacts (both positive and negative) of alternatives can be compared with each other.

Remaining Useful Life

The requirement to consider the “remaining useful life” of the source for BART determinations may be treated as one element of the overall cost analysis. The “remaining useful life” of a source, if it represents a relatively short time period, may affect the annualized costs of retrofit controls. For example, the methods for calculating annualized costs in EPA’s OAQPS Control Cost Manual require the use of a specified time period for amortization that varies based upon the type of control. If the remaining useful life will clearly not exceed this time period, the remaining useful life has an effect on control costs and on the BART determination process. Where the remaining useful life is less than the time period for amortizing costs, this shorter time period should be considered in the cost calculations.

The remaining useful life is the difference between:

- (1) The date that controls will be put in place (capital and other construction costs incurred before controls are put in place can be rolled into the first year, as suggested in EPA’s OAQPS Control Cost Manual); and
- (2) The date the facility permanently stops operations. Where this affects the BART determination, this date should be assured by a federally- or State-enforceable restriction preventing further operation.

EPA recognizes that there may be situations where a source operator intends to shut down a source by a given date, but wishes to retain the flexibility to continue operating beyond that date in the event, for example, that market conditions change. Where this is the case, the BART analysis may account for this, but it must maintain consistency with the statutory requirement to install BART within 5 years. Where the source chooses not to accept a federally enforceable condition requiring the source to shut down by a given date, it is necessary to determine whether a reduced time period for the remaining useful life changes the level of controls that would have been required as BART.



STEP 5 – Evaluate Visibility Impacts

The following is an approach EPA suggests to determine visibility impacts (the degree of visibility improvement for each source subject to BART) for the BART determination. Once it is determined that a source is subject to BART, a visibility improvement determination for the source must be conducted as part of the BART determination.

The permitting agency has flexibility in making this determination, i.e., in setting absolute thresholds, target levels of improvement, or *de minimis* levels, since the deciview improvement must be weighed among the five factors, and the agency is free to determine the weight and significance to be assigned to each factor. For example, a 0.3-dv improvement may merit a stronger weighting in one case versus another, so one “bright line” may not be appropriate.

CALPUFF or another appropriate dispersion model must be used to determine the visibility improvement expected at a Class I area from the potential BART control technology applied to the source. Modeling should be conducted for SO₂, NO_x, and direct PM emissions (PM_{2.5} and/or PM₁₀). There are several steps for determining the visibility impacts from an individual source using a dispersion model:

- Develop a modeling protocol.
- For each source, run the model at pre-control and post-control emission rates according to the accepted methodology in the protocol. Use the 24-hour average actual emission rate from the highest emitting day of the meteorological period modeled (for the pre-control scenario). Calculate the model results for each receptor as the change in dv compared against natural visibility conditions. Post-control emission rates are calculated as a percentage of pre-control emission rates. For example, if the 24-hour pre-control emission rate is 100 pounds per hour (lb/hr) of SO₂ and the control efficiency being evaluated is 95 percent, then the post-control rate is 5 lb/hr.
- Make the net visibility improvement determination. Assess the visibility improvement based on the modeled change in visibility impacts for the pre-control and post-control emission scenarios. The assessment of visibility improvements due to BART controls is flexible and can be done by one or more methods. The frequency, magnitude, and duration components of impairment may be considered. Suggestions for making the determination are:
 - Use of a comparison threshold, as is done for determining if BART-eligible sources should be subject to a BART determination. Comparison thresholds can be used in a number of ways in evaluating visibility improvement (e.g., the number of days or hours that the threshold was exceeded, a single threshold for determining whether a change in impacts is significant, or a threshold representing a given percentage change in improvement).
 - Compare the 98th percentile days for the pre- and post-control runs.

Each of the modeling options may be supplemented with source apportionment data or source apportionment modeling.



Selecting the “Best” Alternative

From the alternatives evaluated in Step 3, EPA recommends developing a chart (or charts) displaying for each of the alternatives the following:

- (1) Expected emission rate (tons per year, lb/hr)
- (2) Emissions performance level (e.g., percent pollutant removed, emissions per unit product, lb/MMBtu, parts per million)
- (3) Expected emissions reductions (tons per year)
- (4) Costs of compliance – total annualized costs (\$), cost effectiveness (\$/ton), incremental cost effectiveness (\$/ton), and/or any other cost-effectiveness measures (such as \$/dv)
- (5) Energy impacts
- (6) Non-air quality environmental impacts
- (7) Modeled visibility impacts

The source has the discretion to determine the order in which control options for BART should be evaluated. The source should provide a justification for adopting the technology selected as the “best” level of control, including an explanation of the CAA factors that led to the choice of that option over other control levels.

In the case where the source is conducting a BART determination for two regulated pollutants on the same source, if the result is two different BART technologies that do not work well together, then a different technology or combination of technologies can be substituted.

Even if the control technology is cost effective, there may be cases where the installation of controls would affect the viability of continued plant operations. There may be unusual circumstances that justify taking into consideration the conditions of the plant and the economic effects of requiring the use of a given control technology. These effects would include effects on product prices, the market share, and profitability of the source. Where there are such unusual circumstances that are judged to affect plant operations, the conditions of the plant and the economic effects of requiring the use of a control technology may be taken into consideration. Where these effects are judged to have a severe impact on plant operations, they may be considered in the selection process, but an economic analysis that demonstrates, in sufficient detail for public review, the specific economic effects, parameters, and reasoning may have to be provided. Any analysis may also consider whether other competing plants in the same industry have been required to install BART controls if this information is available.



4.0 BART ANALYSIS

4.1 SO₂ Emissions

As shown in Table 3A, the highest 8th highest visibility impact due to Units 1 and 2 is 7.93 dv, more than 90 percent of which is due to sulfate particles. Since sulfate particles are formed due to SO₂ and sulfuric acid mist (SAM) emissions, reduction of SO₂ emissions from Units 1 and 2 is the most effective way to reduce visibility impacts due to the BART-eligible emissions units at the site. The SO₂ emissions from the two boilers are currently not controlled.

The BART control analysis, which is similar to the BACT analysis under PSD regulations, is presented in the following sections for SO₂ emissions from the two units. The analysis includes consideration of the available retrofit control technologies, analyzing the feasibility of these technologies, evaluating control effectiveness of the feasible control technologies, evaluating the impacts from cost of compliance, energy, non air-quality environmental, remaining useful life, and finally evaluating the improvement in visibility that may result from the control technology.

4.1.1 Available Retrofit Control Technologies

As part of the BART analysis, a review of previous SO₂ BACT determinations for coal-fired utility and large industrial-sized boilers was performed using the RACT/BACT/LAER Clearinghouse (RBLC) on EPA's webpage. Numerous examples are available in the RBLC database for large coal-fired boilers, which typically use flue gas desulfurization (FGD) as the BACT for SO₂ emissions. However, it should be noted that this database does not reflect the use of FGD systems as a retrofit to existing units. For existing units, the use of lower sulfur fuels is much more cost-effective than the retrofit of an FGD system. These determinations are presented in Table 5.

4.1.2 Control Technology Feasibility

The following control technologies were analyzed:

Low Sulfur Fuel

Units 1 and 2 currently burn bituminous coal. Sulfur content of bituminous coal can range from 0.3 percent to more than 3 percent. Switching to a lower-sulfur coal can reduce SO₂ emissions; however, the cost of compliance depends on the following:

- Cost difference of low sulfur coal and the coal currently used
- Difference in delivery cost for the lower-sulfur coal
- Costs associated with modifications to the units to enable use of lower sulfur coals

Use of low sulfur fuel is considered to be a technically feasible option to reduce SO₂ emissions.



Flue Gas Desulfurization

FGD systems are post-combustion control technologies that rely on chemical reactions within the control device to reduce the concentration of SO₂ in the flue gas. The chemical reaction with an alkaline chemical, which can be performed in a wet or dry contact system, converts SO₂ to sulfite or sulfate salts. In a wet FGD system, a reagent is slurried with water and sprayed into the flue gas stream in an absorber vessel. The SO₂ is removed from the flue gas by sorption and reaction with the slurry. The by-products of the sorption and reaction are in a wet form upon leaving the system and must be dewatered prior to transport/disposal.

The most widely used system for large-scale SO₂ removal is the calcium-based wet lime/limestone FGD system. SO₂ control efficiencies for wet limestone FGD range from 50 to 98 percent, depending on the type of device and design, with an average of 90 percent.

In a dry FGD system, SO₂-containing flue gas comes into contact with an alkaline sorbent such as lime. The sorbent can be delivered to flue gas in an aqueous slurry form (lime spray drying process) or as a dry powder (sorbent injection process). After the sorption and reaction process, a dry waste is produced which is similar to fly ash. The by-product is subsequently captured in a downstream particulate collection device, typically an ESP or a baghouse.

A dry scrubber can use either lime or sodium carbonate as reagent. A typical dry scrubber will use lime as the reagent because it is more readily available than sodium carbonate and the sodium-based reactions produce a soluble by-product that requires special handling.

Lime spray drying efficiency ranges from 70 to 96 percent, with an average of 90 percent. The use of a PM control device after the dry scrubber differs from the wet scrubber system, in which the slurry leaving the wet system must be dewatered and the gas cooled to adiabatic saturation temperature, which requires the particulate control device to be located upstream of the scrubber. The dry byproduct from the dry scrubber system is generally not marketable, since the byproducts includes fly ash and reacted SO₂ and calcium compounds. In contrast, the wet limestone FGD system can produce a marketable byproduct (i.e., gypsum).

Because the dry scrubber absorber construction material is usually carbon steel, the capital costs are usually less expensive as compared with wet scrubbers. However, the necessary use of lime in the process increases its annual operational costs. Based on the EPA Fact Sheet on FGD systems, typical industrial applications of FGD systems are stationary coal and oil-fired combustion units such as utility and industrial boilers.



The RBLC database review also shows that post-combustion controls are typically applied to coal-fired boilers. The EPA Fact Sheet mentions the high capital cost of an FGD system as a disadvantage.

4.1.3 Control Effectiveness of Options

The effectiveness of SO₂ emissions control by the use of an FGD system is assumed to result in approximately 95 percent control. PEF has preliminary estimates of the costs to retrofit dry FGD (DFGD) systems on Units 1 and 2, based on a Worley Parsons (WP) study conducted in 2010. The effectiveness of SO₂ emissions control by the use of low sulfur coal depends on the sulfur content of the lower sulfur coal that is available and economically feasible.

4.1.4 Impacts of Control Technology Options

LOW SULFUR FUELS

To achieve SO₂ emissions below current levels, Units 1 and 2 would require use of lower sulfur coal. The annual average fuel sulfur level for Crystal River Units 1 and 2 during the baseline years was approximately 1.02 percent. Based on the highest average fuel sulfur of 1.02 percent and an average fuel heating value of approximately 12,000 Btu/lb, an average baseline SO₂ emission rate of 1.7 lb/mmBtu was achieved. PEF has indicated that commercially available coal sulfur contents are as follows:

- 0.68 percent sulfur (equivalent to 1.2 lb/mmBtu, based on a fuel heating value of 12,000 Btu/lb)
- 0.35 percent sulfur (equivalent to 0.8 lb/mmBtu, based on a fuel heating value of 8,500 Btu/lb)

However, it is important to note that the 0.35 percent sulfur coal is representative of sub-bituminous coal, also referred to as Powder River Basin (PRB) coal. This coal requires special handling and modifications to existing equipment. While lower sulfur coal is potentially available from the Powder River Basin (PRB), PRB coal is sub-bituminous coal that has unique combustion characteristics requiring specific boiler designs and modifications to existing coal transport, handling and storage equipment. Moreover, the transportation of this coal from Wyoming to Florida would not only add significant cost but involve considerable secondary environmental impacts from unit trains travelling such a distance.

Based on information provided by PEF, the current delivered fuel (1.02 percent sulfur) cost is \$4.25 per mmBtu of heating value. The cost of compliance to use reduced sulfur coal is represented by the additional cost of the lower sulfur coal versus the current 1.02 percent sulfur coal used in the boilers, plus any other capital costs that may be associated with the conversion to a different coal. According to PEF, reduced sulfur coal with 0.68 percent and 0.35 percent sulfur costs \$4.37 per mmBtu and \$4.04 per mmBtu, respectively, excluding additional capital and operating costs.



The cost analysis for the lower sulfur fuel options was prepared following EPA's Control Cost Manual, and is presented in Table 6 for Units 1 and 2. There are additional equipment costs and indirect capital costs for using the lower sulfur bituminous coal (i.e., the 0.68 percent sulfur case), that could be required due to the anticipated reduction in control efficiency of the ESPs while burning lower sulfur coal. It is unknown at this time if ESP upgrades will be required to meet the current BART PM limit of 0.04 lb/mmBtu normal operation and 0.12 lb/mmBtu limit for soot blowing operation after a switch to compliance coal. The high-level cost estimates provided are based on previous analyses to meet the lowered PM BART limit while burning coal with the current sulfur content. Additional analyses would be required to determine unit-specific modifications needed to maintain reliable ESP operation at this same PM BART limit, but taking into account the reduced efficiency expected while burning a lower sulfur coal.

Given the above qualifications on the cost estimates, Table 6 presents the total capital and annualized costs of switching Units 1 and 2 from the coal currently used to 0.68 percent sulfur coal. Annualized operating costs are estimated at more than \$97 million, resulting in an average cost effectiveness of approximately \$8,665 per ton of SO₂ removed if 0.68 percent sulfur fuel is used instead of the current coal.

To calculate the emissions reduction due to the control options, an apples-to-apples comparison of baseline emissions and controlled emissions were calculated based on future projected actual fuel usage. For the remaining useful life of these units, PEF has estimated annual fuel usage to be approximately 45,000,000 mmBtu/yr for both units combined. This represents a capacity factor of approximately 60 percent for these units.

Regarding the PRB coal option, there would be additional equipment costs and indirect capital costs for using the lower sulfur sub-bituminous coal (i.e., the 0.35 percent sulfur case), that could be required due to the anticipated reduction in control efficiency of the ESPs while burning lower sulfur coal, as well as the additional capital costs required for other equipment modifications. This cost estimate is based on a 2005 Sargent and Lundy Crystal River 4 & 5 study on costs of converting to 100 percent PRB. Significant increased scope is not included in this estimate, as an engineering evaluation would have to be completed to accurately define the required scope. Excluded scope includes, but is not limited to, pressure part modifications, ESP modifications, electrical system upgrades, and fan modifications. The 2005 costs were escalated to 2012 costs using the Global Insight Ash and Coal Handling cost category. In addition this cost estimate does not include any O&M, reagent, byproduct or fuel cost impacts, nor does it include a risk adjustment for potential safety hazards and associated issues related to the use of PRB coal at the Crystal River site.

Given the above qualifications and exclusions from the cost estimates, Table 6 presents the capital and annualized costs of switching Units 1 and 2 from the coal currently used to 0.35 percent sulfur coal.



Annualized operating costs are estimated at more than \$296 million, resulting in an average cost effectiveness of approximately \$14,652 per ton of SO₂ removed from the current base case and an incremental cost effectiveness of approximately \$22,137 per ton of SO₂ removed when compared to the 0.68 percent sulfur case.

However, it should be noted that the Mercury and Air Toxics Standards (MATS) or Utility MACT, was issued with an effective date of April 16, 2012 and requires the installation of maximum achievable control technology (MACT). For existing EGUs, MATS contains an alternative, surrogate emission limit for PM with a compliance deadline of April 16, 2015, and an optional possibility of two one-year extensions. Relating MATS to BART, EPA has stated in 40 CFR Part 51, Appendix Y that facilities may rely on the MACT standards for purposes of BART. Ultimately, MATS will require the installation of controls on Crystal River Units 1 & 2 or force their retirement.

Energy Impacts

There are energy impacts associated with using lower sulfur coals, such as PRB coal, since the heating value of the PRB coal is much lower than the current coals being used (e.g., 8,500 Btu/lb versus 12,000 Btu/lb).

Non-Air Quality Environmental Impacts

Use of low or reduced sulfur coal does not result in any non-air quality environmental impacts.

Remaining Useful Life

A BART permit was issued for these units on February 25, 2009 (permit No. 0170004-017-AC), which imposed a revised allowable PM emission limit. The permit assumes that Units 1 and 2 will cease to be operated as coal-fired units by December 31, 2020. The permit requires PEF to notify the Department of any developments that would delay the shutdown (or repowering) of Units 1 and 2 beyond this date.

For the low sulfur fuel control options, it is assumed that some level of capital improvement will be required for ESP upgrades to accommodate the 0.68 percent sulfur coal, and that replacement of the ESPs with baghouses and other equipment modifications would be required for the firing of PRB coal. For this analysis, it is assumed that ESP upgrades or replacements and other equipment modifications would not be complete until 2018. Since the proposed unit retirement date is the end of 2020, this would result in a useful control option equipment life of two years.

FLUE GAS DESULFURIZATION

PEF has preliminary estimates of the costs to retrofit dry FGD (DFGD) systems on Units 1 and 2, based on a Worley Parsons (WP) study conducted in 2010. This estimate is characterized as a Class 5 estimate with an approximate accuracy rate of +/- 30 percent. The study also has several qualifications on the cost estimates, which are not included in this report, as follows:



- Based on the location at Crystal River for construction (i.e. site constraints, conditions of the current units, etc), a 20 percent productivity factor is recommended to be added to the EPC
- Estimate does not provide funds for transformers
- Reasonable Progress Energy owner's cost would be approximately 2.5 percent
- Add owner's contingency on the EPC contract at 5 percent
- This estimate does not factor in any escalation - assume 5 percent per year
- This estimate is project view and does not include any AFUDC, burdens or allocations. A rough estimate for financial view (AFUDC, burdens, allocations) costs would be approximately 8 percent

It is estimated that the capital costs for installation of DFGD systems are approximately \$445 million for Units 1 and 2 combined. As shown in Table 7, the total annualized cost for installation and operation of the DFGD systems is \$364 million for Units 1 and 2 combined. These annualized costs represent the annualized capital cost, as well as recurring annual operating costs for each unit.

To calculate the emissions reduction due to the DFGD control option, an apples-to-apples comparison of baseline emissions and controlled emissions were calculated based on future projected actual fuel usage. For the remaining useful life of these units, PEF has estimated annual fuel usage to be approximately 45,000,000 mmBtu/yr for both units combined. This represents a capacity factor of approximately 60 percent for these units. In addition, it is assumed that the baseline sulfur coal will continue to be fired and that the design DFGD control efficiency will be 95 percent.

As shown in Table 7, the average cost effectiveness is calculated to be approximately \$10,034 per ton of SO₂ removed for Units 1 and 2 combined.

Energy Impacts

There are energy impacts associated with operation of DFGD systems. These additional energy impacts, due to use of auxiliary power and additional pressure drop in the system, are factored into the control cost analysis.

Non-Air Quality Environmental Impacts

Non-air quality impacts would potentially include increased energy use, increased water use and generation of additional solid wastes.

Remaining Useful Life

A BART permit was issued for these units on February 25, 2009 (permit No. 0170004-017-AC), which imposed a revised allowable PM emission limit. The permit assumes that Units 1 and 2 will cease to be operated as coal-fired units by December 31, 2020. The permit requires PEF to notify the Department of any developments that would delay the shutdown (or repowering) of Units 1 and 2 beyond this date.



Installation of DFGD controls for Units 1 and 2 would require time for project design and construction, as well as consideration for scheduling that allows for the continued operation to allow PEF to supply reliable electric power to its customers. For this analysis, it is assumed that these upgrades would not be complete until 2018. This would result in a useful control option equipment life of two years.

4.1.5 Visibility Impacts

To calculate the visibility improvement due to the lower sulfur content fuel and the DFGD control options, first the baseline visibility impacts were estimated based on the maximum 8th highest 24-hour average visibility impacts presented in Table 3A, which is 7.93 dv. Since sulfate particles contributed to more than 90-percent of the total visibility impact, instead of using just the sulfate contribution, the total impact (due to all pollutants) was used as a baseline.

Future or controlled visibility impacts were estimated based on modeling the reduced SO₂ emissions rates, which will result from the burning of lower sulfur coal and the installation of FGD systems of 95 percent control efficiency. These emission rates were calculated by multiplying the SO₂ emissions rates used in the baseline impact analysis by the ratio of: 1) the specific sulfur content (0.68 percent or 0.35 percent) and the baseline sulfur content (estimated to be 1.02 percent) for the fuel sulfur option and 2) by the uncontrolled baseline and the estimated control efficiency of the add on control equipment for the FGD option. The SO₂, NO_x and PM emission rates for the 0.68 percent sulfur coal, 0.35 percent sulfur coal and FGD systems scenarios are provided in Tables 1B, 1C and 1D, respectively. The PM speciation profiles for the 0.68 percent sulfur coal, 0.35 percent sulfur coal and FGD unit scenarios are shown in Tables 1B, 1C and 1D, respectively. Visibility improvements were determined by subtracting future dv impacts from the baseline dv impacts. Tables 3B, 3C and 3D provide a summary of the BART modeling results, including the relative contributions of SO₂, NO_x and PM, for the 0.68 percent sulfur coal, 0.35 percent sulfur coal and FGD systems cases, respectively. Tables 4B, 4C and 4D show the visibility rankings at each Class I area for 0.68 percent sulfur coal, 0.35 percent sulfur coal and FGD unit scenarios, respectively.

The visibility cost effectiveness numbers were calculated from the annual costs and the visibility improvement in dv. Visibility cost effectiveness numbers for the two units together are also presented in Table 6. As shown, visibility cost effectiveness for switching from the approximate 1.02 percent sulfur currently used to 0.68 percent sulfur is more than \$40.4 million/dv for a total visibility improvement of 2.41 dv. Incremental visibility cost effectiveness for switching to 0.35 percent sulfur fuel is \$145 million/dv for an additional improvement of 1.37 dv. Finally, the visibility cost effectiveness for installation of an DFGD system on Units 1 and 2 combined is \$79.4 million/dv for an additional improvement of 4.59 dv. This visibility improvement is extremely small for a very large cost.



4.1.6 Selection of BART

As the pollutant and visibility cost effectiveness values above indicate, the cost of improvement is extremely high for switching from the current coal to 0.68 or 0.35 percent sulfur coal. As a result, switching to either of these lower sulfur coals has been determined to be cost prohibitive. Further, the capital cost and annual operating costs associated with retrofitting FGD systems on Units 1 and 2 was also demonstrated to be prohibitive.

In addition, it should be noted that the Mercury and Air Toxics Standards (MATS) or Utility MACT, was issued with an effective date of April 16, 2012 and requires the installation of maximum achievable control technology (MACT). For existing EGUs, MATS contains an alternative, surrogate emission limit for PM with a compliance deadline of April 16, 2015, and an optional possibility of two one-year extensions. Relating MATS to BART, EPA has stated in 40 CFR Part 51, Appendix Y that facilities may rely on the MACT standards for purposes of BART. Ultimately, MATS will require the installation of controls on Crystal River Units 1 & 2 or force their retirement.

4.2 NO_x Emissions

PEF has actual capital and annual operating costs for the SCR systems that were installed at Crystal River for Units 4 and 5. These are actual costs for retrofit SCR systems at existing coal-fired units at Crystal River and are considered representative, when scaled to MW capacity, of the costs to install and operate SCR systems for Units 1 and 2. It is estimated that the capital costs for installation of SCR systems are approximately \$83 MM and \$99 MM for Units 1 and 2, respectively. These are significant costs and cannot be justified for an approximate two years of useful control equipment life (i.e., 2018 until retirement in 2020).

Further, due to recent regulatory developments related to EPA's Clean Air Interstate Rule (CAIR) and its successor, the Cross-State Air Pollution Rule (CSAPR), CSAPR is currently stayed, and CAIR remains in effect, pending judicial review of CSAPR. PEF believes that compliance with CAIR (and CSAPR, depending on the court's decision) will serve to demonstrate compliance with applicable NO_x standards under the BART program.

In addition, as shown in Table 3A, the visibility contribution of nitrate particles (which are formed by NO_x emissions) corresponding to the maximum 8th highest 24-hour average visibility impact is only 7.0 percent. Therefore, control of NO_x emissions will provide minimal effect in reducing visibility impacts due to Units 1 and 2 at the receptor corresponding to the maximum 8th highest visibility impact at the nearest Class I area (i.e., Chassohowitzka NRA).

Additional add-on control technologies, such as a selective catalytic reduction (SCR) system, will require a direct capital investment, as well as continuing annual operating costs for each unit, which will not result



in any meaningful reduction in visibility. As demonstrated by modeling, the visibility contribution of nitrate particles is not significant. Further, PEF believes that compliance with CAIR (and CSAPR, depending on the court's decision) will serve to demonstrate compliance with applicable NO_x standards under the BART program. As a result, PEF proposes that existing combustion processes, low NO_x burners, and good combustion practices be considered as BART for NO_x emissions for Units 1 and 2.

**TABLE 1A
BART MODELING DATA INPUT
CRYSTAL RIVER POWER PLANT, UNITS 1 & 2
BASELINE (EXEMPTION) SCENARIO**

| Parameter | Units | Value | |
|--|-------------|-----------------|------------------|
| Emission Unit | | Unit 1 | Unit 2 |
| <u>Location</u> | | | |
| UTM Coordinates ^a | | | |
| East | km | 334.30 | 334.30 |
| North | km | 3,204.50 | 3,204.50 |
| Zone | | 17 | 17 |
| Lambert Conformal Coordinates ^a | | | |
| x | km | 1,398.50 | 1,398.50 |
| y | km | -1,116.10 | -1,116.10 |
| <u>Stack Data</u> | | | |
| Height | ft (m) | 499 (152.1) | 502 (153.0) |
| Diameter | ft (m) | 15 (4.57) | 16.0 (4.88) |
| Base elevation | ft (m) | 3.3 (1.00) | 3.3 (1.00) |
| Hourly heat input ^b | MMBtu/hr | 3630.0 - | 4390.0 - |
| <u>Operating Data</u> | | | |
| Exit gas temperature | °F (K) | 291 (417) | 300 (422) |
| Exit gas velocity | ft/s (m/s) | 132.7 (40.5) | 160.0 (48.8) |
| <u>Emission Data^{c,d,e,f}</u> | | | |
| SO ₂ | lb/hr (g/s) | 7,238.4 (912.0) | 8,968.1 (1130.0) |
| NO _x | lb/hr (g/s) | 1,601.2 (201.7) | 2,913.0 (367.0) |
| PM Filterable | lb/hr (g/s) | 140.8 (17.7) | 115.2 (14.5) |
| SO ₄ | lb/hr (g/s) | 50.4 (6.4) | 61.0 (7.7) |

Notes:

- a. Based on common location using UTM coordinates of:

| | |
|-------|------------|
| East | 567.4 km |
| North | 2,813.5 km |
- b. Hourly heat input for each unit corresponds to the maximum hourly PM emissions for 2001 - 2006.
- c. SO₂ emissions data based on CEMS data for 2001 - 2003.
- d. NO_x emissions data based on CEMS data for 2001 - 2003.
- e. PM filterable emissions data based on monitoring data from 2001 - 2006.
- f. SO₄ emissions data calculated based on 0.8% conversion of sulfur to H₂SO₄ and 37% removal of H₂SO₄ in electrostatic precipitator (Southern Company methodology).

**TABLE 3A
SUMMARY OF BART BASELINE (EXEMPTION) MODELING RESULTS WITH NEW IMPROVE ALGORITHM
CRYSTAL RIVER POWER PLANT - UNITS 1 AND 2 - COAL FIRING**

| Class I Area | Distance (km) of Source to Nearest Class I Area Boundary | Visibility Impact >0.5 dv | | | | 22 nd Highest Impact (dv) Over 3-Yr Period |
|---|--|---|---|---|---|---|
| | | 2001 8 th Highest Impact (dv) | 2002 8 th Highest Impact (dv) | 2003 8 th Highest Impact (dv) | 2003 8 th Highest Impact (dv) | |
| Saint Marks NWA <i>Pollutant Contribution</i> | 174 | Sulfate | 3.40 | 3.99 | Sulfate | 3.96 |
| | | Nitrate | 89.8% | 85.2% | Nitrate | 10.1% |
| | | Particulate Matter | 2.6% | 4.8% | Particulate Matter | |
| Chassahowitzka NWA <i>Pollutant Contribution</i> | 21 | Sulfate | 7.18 | 6.43 | Sulfate | 6.97 |
| | | Nitrate | 47.8% | 42.6% | Nitrate | 29.5% |
| | | Particulate Matter | 23.8% | 27.9% | Particulate Matter | |
| Wolf Island NWA <i>Pollutant Contribution</i> | 293 | Sulfate | 1.22 | 1.78 | Sulfate | 1.52 |
| | | Nitrate | 96.2% | 94.4% | Nitrate | 1.8% |
| | | Particulate Matter | 2.3% | 3.7% | Particulate Matter | |
| Okfenokee NWA <i>Pollutant Contribution</i> | 178 | Sulfate | 2.82 | 2.14 | Sulfate | 2.70 |
| | | Nitrate | 83.4% | 95.0% | Nitrate | 3.0% |
| | | Particulate Matter | 13.1% | 2.0% | Particulate Matter | |



TABLE 4A
VISIBILITY IMPACT RANKINGS AT PSD CLASS I AREAS
WITH NEW IMPROVE ALGORITHM, BASELINE (EXEMPTION) ANALYSIS
CRYSTAL RIVER POWER PLANT - UNITS 1 AND 2

| Class I Area | Rank | 2001 | | 2002 | | 2003 | |
|--------------------|------|-----------------------|-----------------------|-----------------------|-----------------------|------|--|
| | | Predicted Impact (dv) | Predicted Impact (dv) | Predicted Impact (dv) | Predicted Impact (dv) | | |
| Saint Marks NWA | 1 | 8.14 | 7.93 | 5.09 | | | |
| | 2 | 6.13 | 5.75 | 4.99 | | | |
| | 3 | 5.57 | 4.26 | 4.98 | | | |
| | 4 | 5.27 | 4.14 | 4.69 | | | |
| | 5 | 4.74 | 3.63 | 4.64 | | | |
| | 6 | 4.46 | 3.50 | 4.56 | | | |
| | 7 | 4.24 | 3.42 | 4.44 | | | |
| | 8 | 4.08 | 3.40 | 3.99 | | | |
| Chassahowitzka NWA | 1 | 10.59 | 9.82 | 9.21 | | | |
| | 2 | 9.85 | 9.29 | 9.19 | | | |
| | 3 | 9.58 | 8.21 | 8.26 | | | |
| | 4 | 9.56 | 7.84 | 7.65 | | | |
| | 5 | 8.79 | 7.84 | 6.97 | | | |
| | 6 | 8.62 | 7.56 | 6.66 | | | |
| | 7 | 8.36 | 7.56 | 6.47 | | | |
| | 8 | 7.93 | 7.18 | 6.43 | | | |
| Wolf Island NWA | 1 | 3.31 | 3.59 | 2.62 | | | |
| | 2 | 2.26 | 2.90 | 2.51 | | | |
| | 3 | 2.14 | 2.14 | 2.39 | | | |
| | 4 | 1.54 | 1.80 | 2.35 | | | |
| | 5 | 1.52 | 1.54 | 2.16 | | | |
| | 6 | 1.43 | 1.48 | 1.94 | | | |
| | 7 | 1.38 | 1.34 | 1.81 | | | |
| | 8 | 1.23 | 1.22 | 1.78 | | | |
| Okefenokee NWA | 1 | 4.66 | 4.53 | 4.57 | | | |
| | 2 | 3.99 | 4.37 | 3.98 | | | |
| | 3 | 3.55 | 3.29 | 3.96 | | | |
| | 4 | 2.98 | 3.15 | 3.44 | | | |
| | 5 | 2.83 | 3.02 | 3.35 | | | |
| | 6 | 2.83 | 2.90 | 2.81 | | | |
| | 7 | 2.55 | 2.85 | 2.78 | | | |
| | 8 | 2.50 | 2.82 | 2.14 | | | |

**TABLE 1B
BART MODELING DATA INPUT
CRYSTAL RIVER POWER PLANT, UNITS 1 & 2
COMPLIANCE COAL, 0.68 WEIGHT % SULFUR**

| Parameter | Units | Unit 1 | | Unit 2 | |
|--|-------------|-----------|---------|-----------|---------|
| Emission Unit | | Unit 1 | | Unit 2 | |
| <u>Location</u> | | | | | |
| UTM Coordinates ^a | | | | | |
| East | km | 334.30 | | 334.30 | |
| North | km | 3,204.50 | | 3,204.50 | |
| Zone | | 17 | | 17 | |
| Lambert Conformal Coordinates ^a | | | | | |
| x | km | 1,398.50 | | 1,398.50 | |
| y | km | -1,116.10 | | -1,116.10 | |
| <u>Stack Data</u> | | | | | |
| Height | ft (m) | 499 | (152.1) | 502 | (153.0) |
| Diameter | ft (m) | 15 | (4.57) | 16.0 | (4.88) |
| Base elevation | ft (m) | 3.3 | (1.00) | 3.3 | (1.00) |
| Hourly heat input ^b | MMBtu/hr | 3630.0 - | | 4390.0 - | |
| <u>Operating Data</u> | | | | | |
| Exit gas temperature | °F (K) | 291 | (417) | 300 | (422) |
| Exit gas velocity | ft/s (m/s) | 132.7 | (40.5) | 160.0 | (48.8) |
| <u>Emission Data^{c,d,e,f}</u> | | | | | |
| SO ₂ | lb/hr (g/s) | 4,356.0 | (548.9) | 5,268.0 | (663.8) |
| NO _x | lb/hr (g/s) | 1,601.2 | (201.7) | 2,913.0 | (367.0) |
| PM Filterable | lb/hr (g/s) | 140.8 | (17.7) | 115.2 | (14.5) |
| SO ₄ | lb/hr (g/s) | 33.6 | (4.2) | 40.7 | (5.1) |

Notes:

- a. Based on common location using UTM coordinates of:

| | |
|-------|------------|
| East | 567.4 km |
| North | 2,813.5 km |
- b. Hourly heat input for each unit corresponds to the maximum hourly PM emissions for 2001 - 2006.
- c. SO₂ emissions calculated based on vendor SO₂ emission factor and hourly heat input
- d. NO_x emissions data based on CEMS data for 2001 - 2003.
- e. PM filterable emissions data based on monitoring data from 2001 - 2006.
- f. SO₄ emissions data calculated based on 0.8% conversion of sulfur to H₂SO₄ and 37% removal of H₂SO₄ in electrostatic precipitator (Southern Company methodology).

**TABLE 3B
SUMMARY OF COMPLIANCE COAL MODELING RESULTS WITH NEW IMPROVE ALGORITHM
CRYSTAL RIVER POWER PLANT - UNITS 1 AND 2 - COAL FIRING**

| Class I Area | Distance (km) of Source to Nearest Class I Area Boundary | Visibility Impact >0.5 dv | | | | 22 nd Highest Impact (dv) Over 3-Yr Period |
|---|--|---|---|---|---|---|
| | | 2001 8 th Highest Impact (dv) | 2002 8 th Highest Impact (dv) | 2003 8 th Highest Impact (dv) | 2003 8 th Highest Impact (dv) | |
| Saint Marks NWA <i>Pollutant Contribution</i> | 174 | 2.89 | 2.22 | 2.67 | 2.66 | |
| | | Sulfate 64.1% | Sulfate 95.6% | Sulfate 80.0% | Sulfate 80.0% | |
| | | Nitrate 33.6% | Nitrate 2.7% | Nitrate 16.1% | Nitrate 16.1% | |
| Chassahowitzka NWA <i>Pollutant Contribution</i> | 21 | 2.2% | 1.7% | 3.8% | 4.97 | |
| | | Particulate Matter | Particulate Matter | Particulate Matter | Particulate Matter | |
| | | 5.52 | 5.22 | 4.62 | 4.97 | |
| Wolf Island NWA <i>Pollutant Contribution</i> | 293 | Sulfate 86.3% | Sulfate 81.4% | Sulfate 78.8% | 0.95 | |
| | | Nitrate 11.5% | Nitrate 11.8% | Nitrate 16.3% | Nitrate 16.3% | |
| | | Particulate Matter 2.2% | Particulate Matter 6.8% | Particulate Matter 4.8% | Particulate Matter 4.8% | |
| Okfenokee NWA <i>Pollutant Contribution</i> | 178 | 0.76 | 0.79 | 1.11 | 1.71 | |
| | | Sulfate 95.5% | Sulfate 81.2% | Sulfate 63.5% | Sulfate 63.5% | |
| | | Nitrate 3.7% | Nitrate 17.3% | Nitrate 34.6% | Nitrate 34.6% | |
| Okfenokee NWA <i>Pollutant Contribution</i> | 178 | 0.8% | 1.5% | 1.9% | 1.71 | |
| | | Particulate Matter | Particulate Matter | Particulate Matter | Particulate Matter | |
| | | 1.64 | 1.81 | 1.39 | 1.71 | |
| Okfenokee NWA <i>Pollutant Contribution</i> | 178 | Sulfate 66.5% | Sulfate 90.2% | Sulfate 81.1% | 1.71 | |
| | | Nitrate 27.4% | Nitrate 6.4% | Nitrate 16.5% | Nitrate 16.5% | |
| | | Particulate Matter 6.1% | Particulate Matter 3.4% | Particulate Matter 2.4% | Particulate Matter 2.4% | |



TABLE 4B
VISIBILITY IMPACT RANKINGS AT PSD CLASS I AREAS
WITH NEW IMPROVE ALGORITHM, COMPLIANCE COAL ANALYSIS
CRYSTAL RIVER POWER PLANT - UNITS 1 AND 2

| Class I Area | Rank | 2001 | | 2002 | | 2003 | |
|--------------------|------|-----------------------|-----------------------|-----------------------|-----------------------|------|--|
| | | Predicted Impact (dv) | Predicted Impact (dv) | Predicted Impact (dv) | Predicted Impact (dv) | | |
| Saint Marks NWA | 1 | 5.61 | 5.63 | 3.46 | | | |
| | 2 | 4.33 | 4.00 | 3.33 | | | |
| | 3 | 4.01 | 2.74 | 3.24 | | | |
| | 4 | 3.62 | 2.68 | 3.05 | | | |
| | 5 | 3.10 | 2.32 | 3.02 | | | |
| | 6 | 2.94 | 2.24 | 2.97 | | | |
| | 7 | 2.91 | 2.23 | 2.91 | | | |
| | 8 | 2.89 | 2.22 | 2.67 | | | |
| Chassahowitzka NWA | 1 | 7.51 | 7.08 | 6.49 | | | |
| | 2 | 6.94 | 6.96 | 6.41 | | | |
| | 3 | 6.80 | 6.03 | 5.75 | | | |
| | 4 | 6.68 | 6.00 | 5.31 | | | |
| | 5 | 6.13 | 5.81 | 4.95 | | | |
| | 6 | 5.95 | 5.36 | 4.95 | | | |
| | 7 | 5.94 | 5.27 | 4.63 | | | |
| | 8 | 5.52 | 5.22 | 4.62 | | | |
| Wolf Island NWA | 1 | 2.11 | 2.36 | 1.66 | | | |
| | 2 | 1.50 | 1.83 | 1.63 | | | |
| | 3 | 1.34 | 1.35 | 1.59 | | | |
| | 4 | 0.96 | 1.15 | 1.49 | | | |
| | 5 | 0.93 | 1.04 | 1.34 | | | |
| | 6 | 0.88 | 1.04 | 1.23 | | | |
| | 7 | 0.87 | 0.82 | 1.18 | | | |
| | 8 | 0.76 | 0.79 | 1.11 | | | |
| Okefenokee NWA | 1 | 3.00 | 3.14 | 2.96 | | | |
| | 2 | 2.74 | 2.94 | 2.66 | | | |
| | 3 | 2.27 | 2.13 | 2.51 | | | |
| | 4 | 1.93 | 2.09 | 2.29 | | | |
| | 5 | 1.85 | 1.90 | 2.12 | | | |
| | 6 | 1.84 | 1.89 | 1.78 | | | |
| | 7 | 1.71 | 1.82 | 1.78 | | | |
| | 8 | 1.64 | 1.81 | 1.39 | | | |

**TABLE 1C
BART MODELING DATA INPUT
CRYSTAL RIVER POWER PLANT, UNITS 1 & 2
POWDER RIVER BASIN COAL, 0.35 WEIGHT % SULFUR**

| Parameter | Units | Value | |
|--|-------------|-----------------|-----------------|
| Emission Unit | | Unit 1 | Unit 2 |
| <u>Location</u> | | | |
| UTM Coordinates ^a | | | |
| East | km | 334.30 | 334.30 |
| North | km | 3,204.50 | 3,204.50 |
| Zone | | 17 | 17 |
| Lambert Conformal Coordinates ^a | | | |
| x | km | 1,398.50 | 1,398.50 |
| y | km | -1,116.10 | -1,116.10 |
| <u>Stack Data</u> | | | |
| Height | ft (m) | 499 (152.1) | 502 (153.0) |
| Diameter | ft (m) | 15 (4.57) | 16.0 (4.88) |
| Base elevation | ft (m) | 3.3 (1.00) | 3.3 (1.00) |
| Hourly heat input ^b | MMBtu/hr | 3630.0 - | 4390.0 - |
| <u>Operating Data</u> | | | |
| Exit gas temperature | °F (K) | 291 (417) | 300 (422) |
| Exit gas velocity | ft/s (m/s) | 132.7 (40.5) | 160.0 (48.8) |
| <u>Emission Data^{c,d,e,f}</u> | | | |
| SO ₂ | lb/hr (g/s) | 2,904.0 (365.9) | 3,512.0 (442.5) |
| NO _x | lb/hr (g/s) | 1,601.2 (201.7) | 2,913.0 (367.0) |
| PM Filterable | lb/hr (g/s) | 140.8 (17.7) | 115.2 (14.5) |
| SO ₄ | lb/hr (g/s) | 23.1 (2.9) | 27.9 (3.5) |

Notes:

- a. Based on common location using UTM coordinates of:

| | |
|-------|------------|
| East | 567.4 km |
| North | 2,813.5 km |
- b. Hourly heat input for each unit corresponds to the maximum hourly PM emissions for 2001 - 2006.
- c. SO₂ emissions calculated based on vendor SO₂ emission factor and hourly heat input
- d. NO_x emissions data based on CEMS data for 2001 - 2003.
- e. PM filterable emissions data based on monitoring data from 2001 - 2006.
- f. SO₄ emissions data calculated based on 0.8% conversion of sulfur to H₂SO₄ and 37% removal of H₂SO₄ in electrostatic precipitator (Southern Company methodology).

**TABLE 2C
PM SPECIATION SUMMARY - PEF CRYSTAL RIVER POWER PLANT, UNIT 1
POWDER RIVER BASIN (PRB) COAL, 0.35 WEIGHT % SULFUR**

| PM Category | Emission Unit ^a | Units | Total | Coarse PM | Soil (Fine PM) | Elemental Carbon (EC) | Inorganic (as H ₂ SO ₄) | Organic |
|--|-----------------------------------|----------------|--------------------------------|-----------------------|----------------|--------------------------------------|--|--------------|
| PM Filterable ^b | Unit 1 | lb/hr % | 140.8 100% | 78.23 56% | 60.27 43% | 2.32 1.6% | NA NA | NA NA |
| PM Condensable ^c | Unit 1 | lb/hr % | 36.30 100% | NA NA | NA NA | NA NA | 23.1 64% | 13.2 36% |
| Total PM ₁₀ (filterable+condensable) | Unit 1 | lb/hr % | 177.1 100% | 78.23 44.2% | 60.27 34.0% | 2.32 1.3% | 23.07 13.0% | 13.2 7.5% |
| Total PM ₁₀ (filterable+Organic Condensable PM) Modeled PM Speciation % (SO ₄ modeled separately) | Unit 1 | lb/hr % | 154.0 100% | 78.23 50.8% | 60.27 39.1% | 2.32 1.5% | 0.0 0.0% | 13.2 8.6% |
| PM Particle Size Distribution for CALPUFF Assessment | | | | | | | | |
| Species Name | Size Distribution by Category (%) | | | | | Emission Rate (lb/hr) | | |
| | AP-42 (Table 1.1-6) | | Cumulative Normalized PM10 (%) | Individual Categories | | Filterable | Organic Condensable | Total |
| Particle Size (microns) | Cumulative (%) | Filterable (%) | | Organic Condensable | | | | |
| Total PM ₁₀ | | | | | | 140.8 | 13.2 | 154.0 |
| PM0063 | 0.63 | 18.5% | 33.3% | 33.3% | 50.0% | 46.9 | 6.6 | 53.5 |
| PM0100 | 1 | 0.0% | 0.0% | 0.0% | 50.0% | 0.0 | 6.6 | 6.6 |
| PM0125 | 1.25 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM0250 | 2.5 | 25.9% | 46.6% | 13.3% | 0 | 18.7 | 0.0 | 18.7 |
| PM0600 | 6 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM1000 | 10 | 55.6% | 100.0% | 53.4% | 0 | 75.2 | 0.0 | 75.2 |
| Totals | | | | 100.0% | 100.0% | 140.8 | 13.2 | 154.0 |
| | | | | | | Total Modeled PM ₁₀ 154.0 | | |

^a Heat input rate for unit and fuel heat content

3,630 MMBtu/hr
0.35 sulfur content (%) 3,630 Unit 1

^b PM fine consists of PM soil and PM elemental carbon
PM fine based on ratio of PM2.5 (fine) to PM10 (filterable)
emission factor (Table 1.1-5, AP-42)

lb/1000 gal
PM2.5 0.24 lb/ton
PM10 0.54 lb/ton
Ratio = 0.44 PM2.5/PM10

PM elemental carbon based on EPA's "Catalog of Global Emissions Inventories and Emission Inventory Tools for Black Carbon", Table 5, January 2002 DRAFT
0.037 of PM2.5

PM elemental carbon 0.016 PM elemental carbon/PM10
PM soil= PM2.5 - PM elemental carbon 0.43 PM soil/PM10
PM2.5 0.44 PM2.5/PM10
PM coarse= PM10 - PM2.5

^c Condensable PM (Table 1.1-6, AP-42)

lb/MMBtu
0.010 for sulfur content =< 0.4% wt

**TABLE 3C
SUMMARY OF PRB COAL MODELING RESULTS WITH NEW IMPROVE ALGORITHM
CRYSTAL RIVER POWER PLANT - UNITS 1 AND 2 - COAL FIRING**

| Class I Area | Distance (km) of Source to Nearest Class I Area Boundary | Visibility Impact >0.5 dv | | | | | | 22 nd Highest Impact (dv) Over 3-Yr Period |
|---|--|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|-------------------------------------|---|
| | | 2001 | | 2002 | | 2003 | | |
| | | 8 th Highest Impact (dv) | 8 th Highest Impact (dv) | 8 th Highest Impact (dv) | 8 th Highest Impact (dv) | 8 th Highest Impact (dv) | 8 th Highest Impact (dv) | |
| Saint Marks NWA <i>Pollutant Contribution</i> | 174 | Sulfate | 2.17 | Sulfate | 1.60 | Sulfate | 1.95 | 1.90 |
| | | Nitrate | 45.0% | Nitrate | 81.4% | Nitrate | 75.3% | |
| | | Particulate Matter | 53.7% | Particulate Matter | 17.6% | Particulate Matter | 22.9% | |
| Chassahowitzka NWA <i>Pollutant Contribution</i> | 21 | Particulate Matter | 1.3% | Particulate Matter | 1.0% | Particulate Matter | 1.8% | 3.92 |
| | | Sulfate | 4.15 | Sulfate | 3.79 | Sulfate | 3.43 | |
| | | Nitrate | 78.6% | Nitrate | 79.7% | Nitrate | 74.3% | |
| Wolf Island NWA <i>Pollutant Contribution</i> | 293 | Particulate Matter | 20.4% | Particulate Matter | 17.0% | Particulate Matter | 23.5% | 0.66 |
| | | Particulate Matter | 1.0% | Particulate Matter | 3.3% | Particulate Matter | 2.3% | |
| | | Sulfate | 0.59 | Sulfate | 0.56 | Sulfate | 0.85 | |
| Okfenokee NWA <i>Pollutant Contribution</i> | 178 | Nitrate | 42.7% | Nitrate | 94.9% | Nitrate | 72.3% | 1.23 |
| | | Particulate Matter | 54.8% | Particulate Matter | 4.7% | Particulate Matter | 26.1% | |
| | | Particulate Matter | 2.5% | Particulate Matter | 0.4% | Particulate Matter | 1.6% | |
| Okfenokee NWA <i>Pollutant Contribution</i> | 178 | Sulfate | 1.23 | Sulfate | 1.25 | Sulfate | 1.01 | 1.23 |
| | | Nitrate | 60.1% | Nitrate | 92.6% | Nitrate | 75.8% | |
| | | Particulate Matter | 37.3% | Particulate Matter | 6.6% | Particulate Matter | 23.2% | |
| Okfenokee NWA <i>Pollutant Contribution</i> | 178 | Particulate Matter | 2.5% | Particulate Matter | 0.8% | Particulate Matter | 1.0% | 1.23 |



TABLE 4C
VISIBILITY IMPACT RANKINGS AT PSD CLASS I AREAS
WITH NEW IMPROVE ALGORITHM, PRB COAL ANALYSIS
CRYSTAL RIVER POWER PLANT - UNITS 1 AND 2

| Class I Area | Rank | 2001 | | 2002 | | 2003 | |
|--------------------|------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | Predicted Impact (dv) | Predicted Impact (dv) | Predicted Impact (dv) | Predicted Impact (dv) | Predicted Impact (dv) | Predicted Impact (dv) |
| Saint Marks NWA | 1 | 4.13 | 4.32 | 2.56 | | | |
| | 2 | 3.31 | 3.03 | 2.40 | | | |
| | 3 | 3.14 | 1.90 | 2.25 | | | |
| | 4 | 2.69 | 1.89 | 2.13 | | | |
| | 5 | 2.29 | 1.76 | 2.12 | | | |
| | 6 | 2.24 | 1.62 | 2.09 | | | |
| | 7 | 2.18 | 1.60 | 2.07 | | | |
| | 8 | 2.17 | 1.60 | 1.95 | | | |
| Chassahowitzka NWA | 1 | 5.63 | 5.56 | 4.87 | | | |
| | 2 | 5.16 | 5.21 | 4.72 | | | |
| | 3 | 5.15 | 4.76 | 4.29 | | | |
| | 4 | 4.95 | 4.43 | 3.94 | | | |
| | 5 | 4.57 | 4.38 | 3.92 | | | |
| | 6 | 4.55 | 4.11 | 3.55 | | | |
| | 7 | 4.30 | 3.93 | 3.49 | | | |
| | 8 | 4.15 | 3.79 | 3.43 | | | |
| Wolf Island NWA | 1 | 1.46 | 1.69 | 1.29 | | | |
| | 2 | 1.11 | 1.26 | 1.11 | | | |
| | 3 | 0.93 | 0.93 | 1.11 | | | |
| | 4 | 0.66 | 0.82 | 1.02 | | | |
| | 5 | 0.63 | 0.82 | 0.91 | | | |
| | 6 | 0.60 | 0.79 | 0.87 | | | |
| | 7 | 0.60 | 0.57 | 0.86 | | | |
| | 8 | 0.59 | 0.56 | 0.85 | | | |
| Okefenokee NWA | 1 | 2.09 | 2.39 | 2.08 | | | |
| | 2 | 2.08 | 2.16 | 1.95 | | | |
| | 3 | 1.59 | 1.60 | 1.73 | | | |
| | 4 | 1.37 | 1.45 | 1.68 | | | |
| | 5 | 1.37 | 1.40 | 1.47 | | | |
| | 6 | 1.34 | 1.29 | 1.29 | | | |
| | 7 | 1.32 | 1.26 | 1.22 | | | |
| | 8 | 1.23 | 1.25 | 1.01 | | | |

**TABLE 1D
BART MODELING DATA INPUT
CRYSTAL RIVER POWER PLANT, UNITS 1 & 2
WITH FLUE GAS DESULFURIZATION (FGD) UNIT**

| Parameter | Units | Unit 1 | | Unit 2 | |
|--|-------------|-----------|---------|-----------|---------|
| Emission Unit | | Unit 1 | | Unit 2 | |
| <u>Location</u> | | | | | |
| UTM Coordinates ^a | | | | | |
| East | km | 334.30 | | 334.30 | |
| North | km | 3,204.50 | | 3,204.50 | |
| Zone | | 17 | | 17 | |
| Lambert Conformal Coordinates ^a | | | | | |
| x | km | 1,398.50 | | 1,398.50 | |
| y | km | -1,116.10 | | -1,116.10 | |
| <u>Stack Data</u> | | | | | |
| Height | ft (m) | 499 | (152.1) | 502 | (153.0) |
| Diameter | ft (m) | 15 | (4.57) | 16.0 | (4.88) |
| Base elevation | ft (m) | 3.3 | (1.00) | 3.3 | (1.00) |
| Hourly heat input ^b | MMBtu/hr | 3630.0 - | | 4390.0 - | |
| <u>Operating Data</u> | | | | | |
| Exit gas temperature | °F (K) | 291 | (417) | 300 | (422) |
| Exit gas velocity | ft/s (m/s) | 132.7 | (40.5) | 160.0 | (48.8) |
| FGD unit control efficiency | % | 95.0 - | | 95.0 - | |
| <u>Emission Data^{c,d,e,f}</u> | | | | | |
| SO ₂ | lb/hr (g/s) | 361.9 | (45.6) | 448.4 | (56.5) |
| NO _x | lb/hr (g/s) | 1,601.2 | (201.7) | 2,913.0 | (367.0) |
| PM Filterable | lb/hr (g/s) | 140.8 | (17.7) | 115.2 | (14.5) |
| SO ₄ | lb/hr (g/s) | 50.4 | (6.4) | 61.0 | (7.7) |

Notes:

- a. Based on common location using UTM coordinates of:

| | |
|-------|------------|
| East | 567.4 km |
| North | 2,813.5 km |
- b. Hourly heat input for each unit corresponds to the maximum hourly PM emissions for 2001 - 2006.
- c. SO₂ emissions calculated based on vendor SO₂ emission factor, hourly heat input and FGD control efficiency
- d. NO_x emissions data based on CEMS data for 2001 - 2003.
- e. PM filterable emissions data based on monitoring data from 2001 - 2006.
- f. SO₄ emissions data calculated based on 0.8% conversion of sulfur to H₂SO₄ and 37% removal of H₂SO₄ in electrostatic precipitator (Southern Company methodology).

**TABLE 2D
PM SPECIATION SUMMARY - PEF CRYSTAL RIVER POWER PLANT, UNIT 1
FLUE GAS DESULFURIZATION UNIT SCENARIO, 95% SO₂ EMISSIONS CONTROL**

| PM Category | Emission Unit ^a | Units | Total | Coarse PM | Soil (Fine PM) | Elemental Carbon (EC) | Inorganic (as H ₂ SO ₄) | Organic |
|--|----------------------------|------------|----------------|----------------|----------------|-----------------------|--|----------------|
| PM Filterable ^b | Unit 1 | lb/hr % | 140.8 100% | 78.23 56% | 60.27 43% | 2.32 1.6% | NA NA | NA NA |
| PM Condensable ^c | Unit 1 | lb/hr % | 283.14 100% | NA NA | NA NA | NA NA | 50.4 18% | 232.7 82% |
| Total PM ₁₀ (filterable+condensable) | Unit 1 | lb/hr % | 424.0 100% | 78.23 18.5% | 60.27 14.2% | 2.32 0.5% | 50.43 11.9% | 232.7 54.9% |
| Total PM ₁₀ (filterable+Organic Condensable PM) Modeled PM Speciation % (SO ₄ modeled separately) | Unit 1 | lb/hr % | 373.5 100% | 78.23 20.9% | 60.27 16.1% | 2.32 0.6% | 0.0 0.0% | 232.7 62.3% |

PM Particle Size Distribution for CALPUFF Assessment

| Species Name | Size Distribution by Category (%) | | | | | Emission Rate (lb/hr) | | |
|------------------------|--|----------------|--------------------------------|---|-------------------------|--|---------------------|-------|
| | AP-42 (Table 1.1-6) Particle Size (microns) | Cumulative (%) | Cumulative Normalized PM10 (%) | Individual Categories Filterable (%) | Organic Condensable (%) | Filterable | Organic Condensable | Total |
| Total PM ₁₀ | | | | | | 140.8 | 232.7 | 373.5 |
| PM0063 | 0.63 | 18.5% | 33.3% | 33.3% | 50.0% | 46.9 | 116.4 | 163.2 |
| PM0100 | 1 | 0.0% | 0.0% | 0.0% | 50.0% | 0.0 | 116.4 | 116.4 |
| PM0125 | 1.25 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM0250 | 2.5 | 25.9% | 46.6% | 13.3% | 0 | 18.7 | 0.0 | 18.7 |
| PM0600 | 6 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM1000 | 10 | 55.6% | 100.0% | 53.4% | 0 | 75.2 | 0.0 | 75.2 |
| Totals | | | | 100.0% | 100.0% | 140.8 | 232.7 | 373.5 |
| | | | | | | Total Modeled PM ₁₀ = 373.5 | | |

^a Heat input rate for unit and fuel heat content

3,630 MMBtu/hr
1.08 sulfur content (%) 3,630 Unit 1

^b PM fine consists of PM soil and PM elemental carbon

PM fine based on ratio of PM2.5 (fine) to PM10 (filterable) emission factor (Table 1.1-5, AP-42)

| | | |
|-------|--------------------|-------------------------|
| | <u>lb/1000 gal</u> | |
| PM2.5 | 0.24 lb/ton | Ratio = 0.44 PM2.5/PM10 |
| PM10 | 0.54 lb/ton | |

PM elemental carbon based on EPA's "Catalog of Global Emissions Inventories and Emission Inventory Tools for Black Carbon", Table 5, January 2002 DRAFT
0.037 of PM2.5

PM elemental carbon 0.016 PM elemental carbon/PM10
PM soil= PM2.5 - PM elemental carbon 0.43 PM soil/PM10
PM2.5 0.44 PM2.5/PM10
PM coarse= PM10 - PM2.5

^c Condensable PM (Table 1.1-6, AP-42)

Total lb/MMBtu
0.1 x S - 0.03
0.08

TABLE 2D (CONTINUED)
PM SPECIATION SUMMARY - PEF CRYSTAL RIVER POWER PLANT, UNIT 2
FLUE GAS DESULFURIZATION UNIT SCENARIO, 95% SO₂ EMISSIONS CONTROL

| PM Category | Emission Unit ^a | Units | Total | Coarse PM | Soil (Fine PM) | Elemental Carbon (EC) | Inorganic (as H ₂ SO ₄) | Organic |
|--|----------------------------|-------|--------|-----------|----------------|-----------------------|--|---------|
| | | | | | | | | |
| PM Filterable ^b | Unit 1 | lb/hr | 115.2 | 64.00 | 49.31 | 1.89 | NA | NA |
| | | % | 100% | 56% | 43% | 1.6% | NA | NA |
| PM Condensable ^c | Unit 1 | lb/hr | 342.42 | NA | NA | NA | 61.0 | 281.4 |
| | | % | 100% | NA | NA | NA | 18% | 82% |
| Total PM ₁₀ (filterable+condensable) | Unit 1 | lb/hr | 457.6 | 64.00 | 49.31 | 1.89 | 61.0 | 281.4 |
| | | % | 100% | 14.0% | 10.8% | 0.4% | 13.3% | 61.5% |
| Total PM ₁₀ (filterable+Organic Condensable PM) Modeled PM Speciation % (SO ₄ modeled separately) | Unit 1 | lb/hr | 396.6 | 64.00 | 49.31 | 1.89 | 0.0 | 281.44 |
| | | % | 100% | 16.1% | 12.4% | 0.5% | 0.0% | 71.0% |

PM Particle Size Distribution for CALPUFF Assessment

| Species | Size Distribution by Category (%) | | | | | Emission Rate (lb/hr) | | |
|------------------------|-----------------------------------|----------------|---------------------|-----------------------|-------------------------|--|---------------------|-------|
| | AP-42 (Table 1.1-6) | | | Individual Categories | | Filterable | Organic Condensable | Total |
| | Particle Size (microns) | Cumulative (%) | Normalized PM10 (%) | Filterable (%) | Organic Condensable (%) | | | |
| Total PM ₁₀ | | | | | | 115.2 | 281.4 | 396.6 |
| PM0063 | 0.63 | 18.5% | 33.3% | 33.3% | 50.0% | 38.3 | 140.7 | 179.0 |
| PM0100 | 1 | 0.0% | 0.0% | 0.0% | 50.0% | 0.0 | 140.7 | 140.7 |
| PM0125 | 1.25 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM0250 | 2.5 | 25.9% | 46.6% | 13.3% | 0 | 15.3 | 0.0 | 15.3 |
| PM0600 | 6 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM1000 | 10 | 55.6% | 100.0% | 53.4% | 0 | 61.5 | 0.0 | 61.5 |
| Totals | | | | 100.0% | 100.0% | 115.2 | 281.4 | 396.6 |
| | | | | | | Total Modeled PM ₁₀ 396.6 | | |

^a Heat input rate for unit and fuel heat content

4,390 MMBtu/hr
 1.08 sulfur content (%)

^b PM fine consists of PM soil and PM elemental carbon
 PM fine based on ratio of PM2.5 (fine) to PM10 (filterable)
 emission factor (Table 1.1-5, AP-42)

lb/1000 gal

PM2.5 0.24 lb/ton
 PM10 0.54 lb/ton

Ratio = 0.44 PM2.5/PM10

PM elemental carbon based on EPA's "Catalog of Global Emissions Inventories and Emission Inventory Tools for Black Carbon", Table 5, January 2002 DRAFT
 0.037 of PM2.5

PM elemental carbon 0.016 PM elemental carbon/PM10
 PM soil= PM2.5 - PM elemental carbon 9.43 PM soil/PM10
 PM2.5 0.44 PM2.5/PM10
 PM coarse= PM10 - PM2.5

^c Condensable PM (Table 1.1-6, AP-42)

lb/MMBtu

Total 0.1 x S - 0.03
 0.08



**TABLE 3D
SUMMARY OF BART FGD UNIT MODELING RESULTS WITH NEW IMPROVE ALGORITHM
CRYSTAL RIVER POWER PLANT - UNITS 1 AND 2 - COAL FIRING**

| Class I Area | Distance (km) of Source to Nearest Class I Area Boundary | Visibility Impact >0.5 dv | | | | | 22 nd Highest Impact (dv) Over 3-Yr Period |
|---|--|-------------------------------------|-------|-------------------------------------|-------|-------------------------------------|---|
| | | 2001 | | 2002 | | 2003 | |
| | | 8 th Highest Impact (dv) | | 8 th Highest Impact (dv) | | 8 th Highest Impact (dv) | |
| Saint Marks NWA <i>Pollutant Contribution</i> | 174 | Sulfate | 1.18 | Sulfate | 0.81 | Sulfate | 0.98 |
| | | Nitrate | 25.3% | Nitrate | 16.0% | Nitrate | 28.7% |
| | | Particulate Matter | 63.9% | Particulate Matter | 73.1% | Particulate Matter | 54.9% |
| Chassahowitzka NWA <i>Pollutant Contribution</i> | 21 | Sulfate | 3.34 | Sulfate | 4.22 | Sulfate | 4.29 |
| | | Nitrate | 25.4% | Nitrate | 25.2% | Nitrate | 25.3% |
| | | Particulate Matter | 42.9% | Particulate Matter | 45.6% | Particulate Matter | 42.4% |
| Wolf Island NWA <i>Pollutant Contribution</i> | 293 | Sulfate | 0.24 | Sulfate | 0.29 | Sulfate | 0.31 |
| | | Nitrate | 13.7% | Nitrate | 38.9% | Nitrate | 29.0% |
| | | Particulate Matter | 75.8% | Particulate Matter | 50.3% | Particulate Matter | 57.9% |
| Okfenokee NWA <i>Pollutant Contribution</i> | 178 | Sulfate | 0.55 | Sulfate | 0.58 | Sulfate | 0.51 |
| | | Nitrate | 66.3% | Nitrate | 48.4% | Nitrate | 20.3% |
| | | Particulate Matter | 15.5% | Particulate Matter | 16.0% | Particulate Matter | 67.9% |
| | | | 18.1% | Particulate Matter | 35.6% | Particulate Matter | 11.8% |



**TABLE 4D
 VISIBILITY IMPACT RANKINGS AT PSD CLASS I AREAS
 WITH NEW IMPROVE ALGORITHM, FGD UNIT ANALYSIS
 CRYSTAL RIVER POWER PLANT - UNITS 1 AND 2**

| Class I Area | Rank | 2001 | | 2002 | | 2003 | |
|--------------------|------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| | | Predicted Impact (dv) | Predicted Impact (dv) | Predicted Impact (dv) | Predicted Impact (dv) | Predicted Impact (dv) | Predicted Impact (dv) |
| Saint Marks NWA | 1 | 1.96 | 2.15 | 1.37 | | | |
| | 2 | 1.91 | 1.48 | 1.24 | | | |
| | 3 | 1.83 | 1.34 | 1.16 | | | |
| | 4 | 1.67 | 1.11 | 1.10 | | | |
| | 5 | 1.46 | 0.86 | 1.10 | | | |
| | 6 | 1.41 | 0.82 | 1.05 | | | |
| | 7 | 1.35 | 0.82 | 1.04 | | | |
| | 8 | 1.18 | 0.81 | 0.98 | | | |
| Chassahowitzka NWA | 1 | 5.44 | 7.21 | 5.54 | | | |
| | 2 | 4.96 | 6.97 | 5.25 | | | |
| | 3 | 3.94 | 6.75 | 5.23 | | | |
| | 4 | 3.92 | 6.52 | 4.88 | | | |
| | 5 | 3.88 | 5.81 | 4.42 | | | |
| | 6 | 3.75 | 5.11 | 4.41 | | | |
| | 7 | 3.57 | 4.40 | 4.32 | | | |
| | 8 | 3.34 | 4.22 | 4.29 | | | |
| Wolf Island NWA | 1 | 0.55 | 0.78 | 0.88 | | | |
| | 2 | 0.50 | 0.54 | 0.54 | | | |
| | 3 | 0.42 | 0.42 | 0.49 | | | |
| | 4 | 0.31 | 0.42 | 0.37 | | | |
| | 5 | 0.31 | 0.39 | 0.32 | | | |
| | 6 | 0.30 | 0.37 | 0.32 | | | |
| | 7 | 0.29 | 0.31 | 0.32 | | | |
| | 8 | 0.24 | 0.29 | 0.31 | | | |
| Okefenokee NWA | 1 | 1.04 | 1.19 | 0.94 | | | |
| | 2 | 0.93 | 1.11 | 0.71 | | | |
| | 3 | 0.90 | 1.03 | 0.71 | | | |
| | 4 | 0.67 | 0.80 | 0.65 | | | |
| | 5 | 0.66 | 0.74 | 0.58 | | | |
| | 6 | 0.66 | 0.64 | 0.55 | | | |
| | 7 | 0.61 | 0.59 | 0.53 | | | |
| | 8 | 0.55 | 0.58 | 0.51 | | | |

TABLE 5
SUMMARY OF SO₂ BACT DETERMINATIONS FOR COAL FUEL FIRED LARGE INDUSTRIAL BOILERS (>250 MMBTU/HR) (2007-2012)

| Facility Name | State | Permit Issued | Process Info | Fuel | Heat Input | Control Method | SO ₂ Limit | Basis |
|---|-------|---------------|---|-------------------------|----------------|---|-----------------------|----------|
| John W. Turk Jr. Power Plant | AR | 11/5/2008 | PC Boiler | PRB Sub-Bit Coal | 6,000 MMBtu/hr | Dry Flue Gas Desulfurization (Spray Dry Absorber) | 0.08 LB/MMBTU | BACT-PSD |
| Ottumwa Generating Station | IA | 2/27/2007 | Boiler #1 | Coal | 6,370 MMBtu/hr | Low Sulfur Coal | 1.2 LB/MMBTU | BACT-PSD |
| J.K. Smith Generating Station | KY | 4/9/2010 | Circulating Fluidized Bed Boiler Cfb1 And CFB2 | Coal | 3,000 MMBtu/hr | Limestone Injection (CFB) and a Flash Dryer Absorber with Fresh Lime Injection | 0.075 LB/MMBTU | BACT-PSD |
| Karn Weadock Generating Complex | MI | 12/29/2009 | Boiler | PRB Coal Or 50/50 Blend | 8,190 MMBtu/hr | Limestone Forced Oxidation, Wet Fluidized Gas Desulfurization (FGd) and Low Sulfur Coal. | 0.06 LB/MMBTU | BACT-PSD |
| Spiritwood Station | ND | 9/14/2007 | Atmospheric Fluidized Bed Boiler | Lignite | 1,280 MMBtu/hr | Limestone injection into the unit with a Spray Dryer following. | 0.06 LB/MMBTU | BACT-PSD |
| Smart Papers Holdings, Llc | OH | 1/31/2008 | Pulverized Dry Bottom Boiler | Coal | 420 MMBtu/hr | | 1.7 LB/MMBTU | BACT-PSD |
| Hugo Generating Sta | OK | 2/9/2007 | Coal-Fired Steam EGU Boiler (HU-Unit 2) | Coal | 2,561 MMBtu/hr | Wet Limestone Flue Gas Desulfurization | 0.065 LB/MMBTU | BACT-PSD |
| Sunnyside Ethanol,Llc | PA | 5/7/2007 | CFB Boiler | Coal | 497 MMBtu/hr | Limestone Injection and add on Dry Flue Gas Desulfurization, CEM | 0.2 LB/MMBTU | BACT-PSD |
| Coletto Creek Unit 2 | TX | 5/3/2010 | Coal-Fired Boiler Unit 2 | PRB Coal | 6,670 MMBtu/hr | Spray Dry Adsorber/Fabric Filter | 0.06 LB/MMBTU | BACT-PSD |
| White Stallion Energy Center | TX | 12/16/2010 | CFB Boiler | Coal & Pet Coke | 3,300 MMBtu/hr | "Limestone Bed CFB and Lime Spray Dryer Permit Design Sulfur Content of Ill Basin Coal is 3.9 Wt% and of Pet Coke 4.3 Avg/6.0 Max | 0.114 LB/MMBTU | BACT-PSD |
| Tenaska Trailblazer Energy Center | TX | 12/30/2010 | Coal-Fired Boiler | Sub-Bituminous Coal | 8,307 MMBtu/hr | HI Weighting of Limits Used for Fuel Blending" | 0.06 LB/MMBTU | BACT-PSD |
| Bonanza Power Plant Waste Coal Fired Unit | UT | 8/30/2007 | Circulating Fluidized Bed Waste Coal Fired Boilers | Sub-Bituminous Coal | -- -- | Wet Limestone Scrubber | 0.055 LB/MMBTU | BACT-PSD |
| Virginia City Hybrid Energy Center | VA | 6/30/2008 | Circulating Fluidized Bed Waste Coal And Refuse Boilers | Waste Coal | 3,132 MMBtu/hr | | 0.035 LB/MMBTU | BACT-PSD |
| Western Greenbrier Co-Generation, Llc | WV | 4/26/2006 | Circulating Fluidized Bed Waste Coal Boiler (CFB) | Waste Coal | 1,070 MMBtu/hr | Dry SO2 Scrubber (Spray Dry Absorber)" | 0.14 LB/MMBTU | BACT-PSD |
| Wygen 3 | WY | 2/5/2007 | PC Boiler | Subbituminous Coal | 1,300 MMBtu/hr | Good Combustion Practices Low Sulfur Content Coal and CEM System | 0.09 LB/MMBTU | BACT-PSD |
| Dry Fork Station | WY | 10/15/2007 | PC Boiler (ES1-01) | Coal | -- -- | Limestone Injection and Flue Gas Desulfurization and CEM System | 0.07 LB/MMBTU | BACT-PSD |

Source: EPA 2012 (RBLC database)



**TABLE 6
COST EFFECTIVENESS OF FUEL SWITCHING
PEF CRYSTAL RIVER POWER PLANT, UNITS 1 AND 2**

| Cost Items | Cost Factors | Baseline | Projected Future | Projected Future |
|--|--|---------------------------|---------------------------|---------------------------|
| | | Current Fuel Cost (\$) | 0.68% S Fuel Cost (\$) | 0.35% S Fuel Cost (\$) |
| DIRECT CAPITAL COSTS (DCC): | | | | |
| (1a) Equipment Cost - Upgrade ESP for 0.68%S Coal | | | 100,000,000 | |
| (1b) Equipment Cost - Performance, Coal Handling Performance, Safety for 0.35% Coal ^(a) | | | | 82,500,000 |
| (1c) Equipment Cost - Replace ESP with Baghouse for 0.35%S Coal | | | | 250,000,000 |
| (3) Sales Tax | NA | 0.0 | 0.0 | 0.0 |
| Subtotal: Total Equipment Cost (TEC) | | 0.0 | 100,000,000 | 332,500,000 |
| (4) Direct Installation Costs | NA | 0.0 | 0.0 | 0.0 |
| Total DCC: | | 0.0 | 100,000,000 | 332,500,000 |
| INDIRECT CAPITAL COSTS (ICC): ^(b) | | | | |
| (1) Indirect Installation Costs | | | | |
| (a) Engineering | 10% of TEC | 0.0 | 10,000,000 | 33,250,000 |
| (b) Construction & Field Expenses | 10% of TEC | 0.0 | 10,000,000 | 33,250,000 |
| (c) Construction Contractor Fee | 10% of TEC | 0.0 | 10,000,000 | 33,250,000 |
| (d) Contingencies | 3% of TEC | 0.0 | 3,000,000 | 9,975,000 |
| (2) Other Indirect Costs | | | | |
| (a) Startup | 1% of TEC | 0.0 | 1,000,000 | 3,325,000 |
| (b) Performance Test' | 1% of TEC | 0.0 | 1,000,000 | 3,325,000 |
| Total ICC: | | 0.0 | 35,000,000 | 116,375,000 |
| PROJECT CONTINGENCY | 15% of (DCC+ICC) | 0.0 | 20,250,000 | 67,331,250 |
| TOTAL CAPITAL INVESTMENT (Total Plant Cost) (TCI): | DCC + ICC+Project Contingency | 0.0 | 155,250,000 | 516,206,250 |
| DIRECT OPERATING COSTS (DOC): | | | | |
| (1) Variable Operation & Maintenance Cost | Progress Energy Data | 0 | 0 | 0 |
| (3) Fuels | | | | |
| Existing Fuel Cost (Coal with 1.0%S) | \$4.25/mmBtu coal; 45,000,000 mmBtu/yr; 12,000 Btu/lb | 191,250,000 | -- | -- |
| Proposed Fuel Cost (Coal with 0.68%S) | \$4.37/mmBtu coal; 45,000,000 mmBtu/yr; 12,000 Btu/lb | -- | 196,650,000 | -- |
| Proposed Fuel Cost (Coal with 0.35%S) | \$4.04/mmBtu coal; 45,000,000 mmBtu/yr; 8,800 Btu/lb | -- | -- | 181,800,000 |
| Differential Fuel Cost (Proposed - Existing) | Proposed fuel cost - existing fuel cost | | 5,400,000 | -9,450,000 |
| Total DOC: | | | 5,400,000 | -9,450,000 |
| INDIRECT OPERATING COSTS (IOC): ^(b) | | | | |
| (1) Overhead | 60% of oper. labor & maintenance, CCM Chapter 2 | 0.0 | 0.0 | 0.0 |
| (2) Property Taxes | 1% of total capital investment, CCM Chapter 2 | 0.0 | 1,552,500 | 5,162,063 |
| (3) Insurance | 1% of total capital investment, CCM Chapter 2 | 0.0 | 1,552,500 | 5,162,063 |
| (4) Administration | 2% of total capital investment, CCM Chapter 2 | 0.0 | 3,105,000 | 10,324,125 |
| Total IOC: | (1) + (2) + (3) + (4) | 0.0 | 6,210,000 | 20,648,250 |
| CAPITAL RECOVERY COSTS (CRC): | CRF of 0.55309 times TCI (2 yrs @ 7%) | 0.0 | 85,867,223 | 285,508,515 |
| ANNUALIZED COSTS (AC): | DOC + IOC + CRF | 0.0 | 97,477,223 | 296,706,765 |
| Baseline Emissions: | Based on projected operation for Units 1 & 2 | 38,250 | 38,250 | 38,250 |
| Projected Future Emissions: | 1.2 lb/mmBtu and 0.8 lb/mmBtu; 45,000,000 mmBtu/yr | -- | 27,000 | 18,000 |
| Emissions Reduction (TPY)(AC): | Baseline - Future Projected (TPY) | -- | 11,250 | 20,250 |
| Average Cost Effectiveness (\$/ton): | AC/Emissions Reduction | -- | 8,665 | 14,652 |
| Incremental Cost (\$) | Incremental Cost for using 0.35% S instead of 0.68% S coal | -- | -- | 199,229,542 |
| Incremental Emissions Reduction (TPY): | Emissions Reduction 0.35% S coal - 0.68% S coal | -- | -- | 9,000 |
| Incremental Cost Effectiveness (\$/ton): | Incremental Cost/Incremental Emissions Reduction | -- | -- | 22,137 |
| Modeled Baseline Visibility Impact - Haze Index (HI) (dv): | 8th Highest Visibility Impact for Both Units 1 and 2 | 7.93 | -- | -- |
| Modeled Visibility Impact w 0.68% & 0.35% S Coal - HI (dv) | 8th Highest Visibility Impact for Both Units 1 and 2 | -- | 5.52 | 4.15 |
| Improvement in Visibility (dv) | Future - Baseline | -- | 2.41 | 3.78 |
| Average Visibility Improvement Cost Effectiveness (\$/dv): | AC/Visibility Improvement | -- | 40,446,980 | 78,493,853 |
| Incremental Visibility Improvement (dv): | Visibility Improvement 0.35% S coal - 0.68% S coal | -- | -- | 1.37 |
| Incremental Visibility Improvement Cost Effectiveness (\$/dv) | Incremental Cost/Incremental Visibility Improvement | -- | -- | 145,423,024 |

Notes:

^(a) This estimate is based on a 2005 Sargent and Lundy Crystal River 4 & 5 study on costs of converting to 100% PRB. Significant increased scope is not included in this estimate, as an engineering evaluation would have to be completed to accurately define the required scope. Excluded scope includes, but is not limited to, pressure part modifications, ESP modifications, electrical system upgrades, and fan modifications. The 2005 costs were escalated to 2012 costs using the Global Insight ash and coal handling cost category. In addition this cost estimate does not include any O&M, reagent, byproduct or fuel cost impacts, nor does it include a risk adjustment for potential safety hazards and associated issues related to the use of PRB coal at the Crystal River site.

^(b) Factors and cost estimates reflect OAQPS Cost Manual, 6th Edition, January 2002.

**TABLE 7
COST EFFECTIVENESS OF FUEL GAS DESULFURIZATION (FGD) SYSTEMS
PEF CRYSTAL RIVER POWER PLANT, UNITS 1 AND 2**

| Cost Items | Cost Factors | Baseline Uncontrolled Cost (\$) | Projected Future FGD Systems Cost (\$) |
|--|---|---------------------------------|--|
| DIRECT CAPITAL COSTS (DCC): | | | |
| (1) Equipment Cost | | | 286,653,406 |
| (3) Sales Tax | NA | 0.0 | 0.0 |
| Subtotal: Total Equipment Cost (TEC) | | 0.0 | 286,653,406.0 |
| (4) Direct Installation Costs | NA | 0.0 | 0.0 |
| Total DCC: | | 0.0 | 286,653,406.0 |
| INDIRECT CAPITAL COSTS (ICC): ^(a) | | | |
| (1) Indirect Installation Costs | | | |
| (a) Engineering | 10% of TEC | 0.0 | 28,665,340.6 |
| (b) Construction & Field Expenses | 10% of TEC | 0.0 | 28,665,340.6 |
| (c) Construction Contractor Fee | 10% of TEC | 0.0 | 28,665,340.6 |
| (d) Contingencies | 3% of TEC | 0.0 | 8,599,602.2 |
| (2) Other Indirect Costs | | | |
| (a) Startup | 1% of TEC | 0.0 | 2,866,534.1 |
| (b) Performance Test' | 1% of TEC | 0.0 | 2,866,534.1 |
| Total ICC: | | 0.0 | 100,328,692.1 |
| PROJECT CONTINGENCY | 15% of (DCC+ICC) | 0.0 | 58,047,314.7 |
| TOTAL CAPITAL INVESTMENT (Total Plant Cost) (TCI): | DCC + ICC+Project Contingency | 0.0 | 445,029,412.8 |
| DIRECT OPERATING COSTS (DOC): ^{(a),(b)} | | | |
| (1) Limestone | 133,000 tpy x \$32.8 per ton | 0 | 4,362,400 |
| (2) Filtered water | 315 Mgal x \$0.82 per 1000 gal | 0 | 258,300 |
| (3) Electrical power | 1.9% of gross power production of Units 1 & 2 x 8760 hours x \$0.05 per KW/hr | 0 | 71,111,490 |
| (4) By-product disposal | 380,000 tpy by-product x \$65.6 per ton | 0 | 24,928,000 |
| Total DOC: | | 0 | 100,660,190 |
| INDIRECT OPERATING COSTS (IOC): ^(c) | | | |
| (1) Overhead | 60% of oper. labor & maintenance, CCM Chapter 2 | 0.0 | 0.0 |
| (2) Property Taxes | 1% of total capital investment, CCM Chapter 2 | 0.0 | 4,450,294.1 |
| (3) Insurance | 1% of total capital investment, CCM Chapter 2 | 0.0 | 4,450,294.1 |
| (4) Administration | 2% of total capital investment, CCM Chapter 2 | 0.0 | 8,900,588.3 |
| Total IOC: | (1) + (2) + (3) + (4) | 0.0 | 17,801,176.5 |
| CAPITAL RECOVERY COSTS (CRC): | CRF of 0.55309 times Total Capital Cost (2 yrs @ 7%) | 0.0 | 246,141,318 |
| ANNUALIZED COSTS (AC): | DOC + IOC + CRF | 0.0 | 364,602,684 |
| Baseline Emissions: | Based on projected operation for Units 1 & 2 | 38,250 | 38,250 |
| Projected Future Emissions: | Assumes 95% control | -- | 1,913 |
| Emissions Reduction (TPY)(AC): | Baseline - Future Projected (TPY) | -- | 36,338 |
| Average Cost Effectiveness (\$/ton): | AC/Emissions Reduction | -- | 10,034 |
| Incremental Cost (\$) | Incremental Cost for using FGD instead of 0.68% S coal | -- | -- |
| Incremental Emissions Reduction (TPY): | Emissions Reduction 0.35% S coal - 0.68% S coal | -- | -- |
| Incremental Cost Effectiveness (\$/ton): | Incremental Cost/Incremental Emissions Reduction | -- | -- |
| Modeled Baseline Visibility Impact - Haze Index (HI) (dv): | 8th Highest Visibility Impact for Both Units 1 and 2 | 7.93 | -- |
| Modeled Visibility Impact w FGD System - HI (dv): | 8th Highest Visibility Impact for Both Units 1 and 2 | -- | 3.34 |
| Improvement in Visibility (dv) | Future - Baseline | -- | 4.59 |
| Average Visibility Improvement Cost Effectiveness (\$/dv): | AC/Visibility Improvement | -- | 79,434,136 |
| Incremental Visibility Improvement (dv): | | -- | -- |
| Incremental Visibility Improvement Cost Effectiveness (\$/dv): | Incremental Cost/Incremental Visibility Improvement | -- | -- |

Notes:

^(a) Direct operating costs include primary cost elements only.

^(b) Direct operating costs estimated based on "Dry Flue Gas Desulfurization (DFGD)/Puff Jet Fabric Filter (PJFF) and Selective Catalytic Reduction (SCR) System Retrofit and Conceptual Design and Cost Estimate" for Crystal River Units 1 & 2, Progress Energy Florida, July 2010; CRCA-0-LI-022-0006.

^(c) Factors and cost estimates reflect OAQPS Cost Manual, 6th Edition, January 2002.

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Exhibit G

Crystal River Power Plant

Crystal River, Florida

Sierra Club Evaluation of Compliance with 1-hour SO₂ NAAQS

June 25, 2012

Conducted by:

Steven Klafka, P.E., BCEE

Wingra Engineering, S.C.

Madison, Wisconsin

1. Introduction

The Sierra Club prepared an air modeling impact analysis to help USEPA, state and local air agencies identify facilities that are likely causing violations of the 1-hour sulfur dioxide (SO₂) national ambient air quality standard (NAAQS). This document describes the results and procedures for an evaluation conducted for the Crystal River Power Plant located in Crystal River, Florida.

The dispersion modeling analysis predicted ambient air concentrations for comparison with the one hour SO₂ NAAQS. The modeling was performed using the most recent version of AERMOD, AERMET, and AERMINUTE, with data provided to the Sierra Club by regulatory air agencies and through other publicly-available sources as documented below. The analysis was conducted in adherence to all available USEPA guidance for evaluating source impacts on attainment of the 1-hour SO₂ NAAQS via aerial dispersion modeling, including the AERMOD Implementation Guide; USEPA's Applicability of Appendix W Modeling Guidance for the 1-hour SO₂ National Ambient Air Quality Standard, August 23, 2010; modeling guidance promulgated by USEPA in Appendix W to 40 CFR Part 51; and, USEPA's March 2011 Modeling Guidance for SO₂ NAAQS Designations, available at <http://www.epa.gov/ttn/scram/SO2%20Designations%20Guidance%202011.pdf>.

2. Compliance with the 1-hour SO₂ NAAQS

2.1 1-hour SO₂ NAAQS

The 1-hour SO₂ NAAQS takes the form of a three-year average of the 99th-percentile of the annual distribution of daily maximum 1-hour concentrations, which cannot exceed 75 ppb.¹ Compliance with this standard was verified using USEPA's AERMOD air dispersion model, which produces air concentrations in units of µg/m³. The 1-hour SO₂ NAAQS of 75 ppb equals 196.2 µg/m³, and this is the value used for determining whether modeled impacts exceed the NAAQS.² The 99th-percentile of the annual distribution of daily maximum 1-hour concentrations corresponds to the fourth-highest value at each receptor for a given year.

2.2 Modeling Results

Modeling results for Crystal River Power Plant are summarized in Table 1. It was determined that based on either currently permitted emissions or measured actual emissions, the Crystal River Power Plant is estimated to create downwind SO₂ concentrations which exceed the 1-hour NAAQS.

¹ USEPA, Applicability of Appendix W Modeling Guidance for the 1-hour SO₂ National Ambient Air Quality Standard, August 23, 2010.

² The ppb to µg/m³ conversion is found in the source code to AERMOD v. 11103, subroutine Modules. The conversion calculation is $75/0.3823 = 196.2$ µg/m³.

The currently permitted emissions and measured actual emissions used for the modeling analysis are summarized in Table 2. Based on the modeling results, emission reductions from current rates considered necessary to achieve compliance with the 1-hour NAAQS were calculated and presented in Table 3.

Predicted exceedences of the 1-hour NAAQS for SO₂ extend throughout the region to a maximum distance of 40 kilometers.

Figure 1 provided at the end of this report shows the extent of NAAQS violations throughout the entire 50 kilometer modeling domain.

Figure 2 provides a close-up local view of NAAQS violations.

Air quality impacts in Florida are based on a background concentration of 5.2 µg/m³. This is the 2008-10 design value for Miami - Dade County, Florida - the lowest measured background concentration in the state. This is the most recently available design value.

2.3 Conservative Modeling Assumptions

A dispersion modeling analysis requires the selection of numerous parameters which affect the predicted concentrations. For the enclosed analysis, several parameters were selected which under-predict facility impacts.

Assumptions used in this modeling analysis which likely under-estimate concentrations include the following:

- Allowable emissions are based on a limitation with an averaging period which is greater than the 1-hour average used for the SO₂ air quality standard. Emissions and impacts during any 1-hour period may be higher than assumed for the modeling analysis.
- No consideration of facility operation at less than 100% load. Stack parameters such as exit flow rate and temperature are typically lower at less than full load, reducing pollutant dispersion and increasing predicted air quality impacts.
- No consideration of building or structure downwash. These downwash effects typically increase predicted concentrations near the facility.
- No consideration of off-site sources. These other sources of SO₂ will increase the predicted impacts.

Table 1 - SO₂ Modeling Results for Crystal River Power Plant Modeling Analysis

| Emission Rates | Averaging Period | 99 th Percentile 1-hour Daily Maximum (µg/m ³) | | | | Complies with NAAQS? |
|----------------|------------------|---|------------|-------|-------|----------------------|
| | | Impact | Background | Total | NAAQS | |
| Allowable | 1-hour | 915.8 | 5.2 | 921.0 | 196.2 | No |
| Maximum | 1-hour | 529.4 | 5.2 | 534.6 | 196.2 | No |

Table 2 - Modeled SO₂ Emissions from Crystal River Power Plant^{3,4}

| Stack ID | Unit ID | Allowable Emissions 24-hour Average (lbs/hr) | Maximum Emissions 1-hour Average (lbs/hr) |
|-------------|---------------|--|---|
| S01 | Unit 1 | 7,875.0 | 4,319.0 |
| S02 | Unit 2 | 10,069.5 | 5,092.0 |
| S45 | Units 4 and 5 | 17,280.0 | 10,531.0 |
| Stack Total | All Units | 32,224.5 | 19,942.0 |

Table 3 - Required Emission Reductions for Compliance with 1-hour SO₂ NAAQS

| Acceptable Impact (NAAQS - Background) 99 th Percentile 1-hour Daily Max (µg/m ³) | Required Total Facility Reduction Based on Allowable Emissions (%) | Required Total Facility Emission Rate (lbs/hr) | Required Total Facility Emission Rate (lbs/mmbtu) |
|--|--|---|--|
| 191.0 | 79.1% | 6,720.8 | 0.25 |

³ Florida Department of Environmental Protection, Division of Air Resource Management, Title V Air Operation Permit No. 0170004-025-AV, April 11, 2011. All units have an emission limitation of 1.2 lbs/mmbtu.

⁴ Maximum emissions are measured hourly rates reported for 2011 in USEPA, Clean Air Markets - Data and Maps.

3. Modeling Methodology

3.1 Air Dispersion Model

The modeling analysis used USEPA's AERMOD program, version 12060. AERMOD, as available from the Support Center for Regulatory Atmospheric Modeling (SCRAM) website, was used in conjunction with a third-party modeling software program, *AERMOD View*, sold by Lakes Environmental Software.

3.2 Control Options

The AERMOD model was run with the following control options:

- 1-hour average air concentrations
- Regulatory defaults
- Flagpole receptors

To reflect a representative inhalation level, a flagpole height of 1.5 meters was used for all modeled receptors. This parameter was added to the receptor file when running AERMAP, as described in Section 4.4.

An evaluation was conducted to determine if the modeled facility was located in a rural or urban setting using USEPA's methodology outlined in Section 7.2.3 of the Guideline on Air Quality Models.⁵ For urban sources, the URBANOPT option is used in conjunction with the urban population from an appropriate nearby city and a default surface roughness of 1.0 meter. Methods described in Section 4.1 to determine whether rural or urban dispersion coefficients were used.

3.3 Output Options

The AERMOD analysis was based on five years of recent meteorological data. The modeling analyses used one run with five years of sequential meteorological data from 2007-2011. Consistent with USEPA's Modeling Guidance for SO₂ NAAQS Designations, AERMOD provided a table of fourth-high 1-hour SO₂ impacts concentrations consistent with the form of the 1-hour SO₂ NAAQS.⁶

Please refer to Table 1 for the modeling results.

⁵ USEPA, Revision to the Guideline on Air Quality Models: Adoption of a Preferred General Purpose (Flat and Complex Terrain) Dispersion Model and Other Revisions, Appendix W to 40 CFR Part 51, November 9, 2005.

⁶ USEPA, Area Designations for the 2010 Revised Primary Sulfur Dioxide National Ambient Air Quality Standards, Attachment 3, March 24, 2011, pp. 24-26.

4. Model Inputs

4.1 Geographical Inputs

The “ground floor” of all air dispersion modeling analyses is establishing a coordinate system for identifying the geographical location of emission sources and receptors. These geographical locations are used to determine local characteristics (such as land use and elevation), and also to ascertain source to receptor distances and relationships.

The Universal Transverse Mercator (UTM) NAD83 coordinate system was used for identifying the easting (x) and northing (y) coordinates of the modeled sources and receptors. Stack locations were obtained from facility permits and prior modeling files provided by the state regulatory agency. The stack locations were then verified using aerial photographs.

The facility was evaluated to determine if it should be modeled using the rural or urban dispersion coefficient option in AERMOD. A GIS was used to determine whether rural or urban dispersion coefficients apply to a site. Land use within a three-kilometer radius circle surrounding the facility was considered. USEPA guidance states that urban dispersion coefficients are used if more than 50% of the area within 3 kilometers has urban land uses. Otherwise, rural dispersion coefficients are appropriate.⁷

USEPA’s AERSURFACE model Version 08009 was used to develop the meteorological data for the modeling analysis. This model was also used to evaluate surrounding land use within 3 kilometers. Based on the output from the AERSURFACE, approximately 20.2% of surrounding land use around the airport was of urban land use types including: 21 – Low Intensity Residential, 22 – High Intensity Residential, and 23 - Commercial/Industrial/Transportation.

This is less than the 50% value considered appropriate for the use of urban dispersion coefficients. Based on the AERSURFACE analysis, it was concluded that the rural option would be used for the modeling summarized in this report. Please refer to Section 4.5.3 for a discussion of the AERSURFACE analysis.

⁷ USEPA, Revision to the Guideline on Air Quality Models: Adoption of a Preferred General Purpose (Flat and Complex Terrain) Dispersion Model and Other Revisions, Appendix W to 40 CFR Part 51, November 9, 2005, Section 7.2.3.

4.2 Emission Rates and Source Parameters

The modeling analyses only considered SO₂ emissions from the facility. Off-site sources were not considered. Concentrations were predicted for two scenarios shown in Table 2:

- 1) approved or allowable emissions based on permits issued by the regulatory agency, and
- 2) measured actual hourly SO₂ emissions obtained from USEPA’s Clean Air Markets Database. To assure realistic emission rates were used, emissions from all units at the facility were combined and the hour with the maximum total facility emissions was used to determine the actual emissions.

Stack parameters and emissions used for the modeling analysis are summarized in Table 4.

Table 4 – Facility Stack Parameters and Emissions⁸

| Stack | S01 | S02 | S45 |
|-------------------------------|------------|------------|---------------|
| Description | Unit 1 | Unit 2 | Units 4 and 5 |
| X Coord. [m] | 334265.16 | 334329.64 | 334783.6 |
| Y Coord. [m] | 3204413.63 | 3204413.63 | 3205565.58 |
| Base Elevation [m] | 2.74 | 2.96 | 2.89 |
| Release Height [m] | 152.1 | 153.01 | 167.64 |
| Gas Exit Temperature [°K] | 417.039 | 422.039 | 327.594 |
| Gas Exit Velocity [m/s] | 40.473 | 48.796 | 15.333 |
| Inside Diameter [m] | 4.572 | 4.877 | 9.296 |
| Allowable Emission Rate [g/s] | 992.2 | 1,269.0 | 2,177.0 |
| Maximum Emission Rate [g/s] | 544.2 | 641.6 | 1,327.0 |

The above stack parameters and emissions were obtained from regulatory agency documents and databases identified in Section 2.3. The analysis was conducted based on 100% operating load using maximum exhaust flow rates and emission rates. Operation at less than full capacity loads was not considered. This assumption tends to under-predict impacts since stack parameters such as exit flow rate and temperature are typically lower at less than full load, reducing pollutant dispersion and increasing predicted air quality impacts. Stack location, height and diameter were verified using aerial photographs, and flue gas flow rate and temperature were verified using combustion calculations.

⁸ Florida Department of Environmental Protection, Division of Air Resource Management, Title V Air Operation Permit No. 0170004-025-AV, April 11, 2011.

4.3 Building Dimensions and GEP

No building dimensions or prior downwash evaluations were available. Therefore this modeling analysis did not address the effects of downwash which may increase predicted concentrations.

4.4 Receptors

For Crystal River Power Plant, three receptor grids were employed:

1. A 100-meter Cartesian receptor grid centered on Crystal River Power Plant and extending out 5 kilometers.
2. A 500-meter Cartesian receptor grid centered on Crystal River Power Plant and extending out 10 kilometers.
3. A 1,000-meter Cartesian receptor grid centered on Crystal River Power Plant and extending out 50 kilometers. 50 kilometers is the maximum distance accepted by USEPA for the use of the AERMOD dispersion model.⁹

A flagpole height of 1.5 meters was used for all these receptors.

Elevations from stacks and receptors were obtained from National Elevation Dataset (NED) GeoTiff data. GeoTiff is a binary file that includes data descriptors and geo-referencing information necessary for extracting terrain elevations. These elevations were extracted from 1 arc-second (30 meter) resolution NED files. The USEPA software program AERMAP v. 11103 is used for these tasks.

4.5 Meteorological Data

To improve the accuracy of the modeling analysis, recent meteorological data for the 2007 to 2011 period were prepared using the USEPA's program AERMET which creates the model-ready surface and profile data files required by AERMOD. Required data inputs to AERMET included surface meteorological measurements, twice-daily soundings of upper air measurements, and the micrometeorological parameters surface roughness, albedo, and Bowen ratio. One-minute ASOS data were available so USEPA methods were used to reduce calm and missing hours.¹⁰ The USEPA software program AERMINUTE v. 11325 is used for these tasks.

⁹ USEPA, Revision to the Guideline on Air Quality Models: Adoption of a Preferred General Purpose (Flat and Complex Terrain) Dispersion Model and Other Revisions, Appendix W to 40 CFR Part 51, Section A.1.(1), November 9, 2005.

¹⁰ USEPA, Area Designations for the 2010 Revised Primary Sulfur Dioxide National Ambient Air Quality Standards, Attachment 3, March 24, 2011, p. 19.

This section discusses how the meteorological data was prepared for use in the 1-hour SO₂ NAAQS modeling analyses. The USEPA software program AERMET v. 11059 is used for these tasks.

4.5.1 Surface Meteorology

Surface meteorology was obtained for Hernando County Airport located near the Crystal River Power Plant. Integrated Surface Hourly (ISH) data for the 2007 to 2011 period were obtained from the National Climatic Data Center (NCDC). The ISH surface data was processed through AERMET Stage 1, which performs data extraction and quality control checks.

4.5.2 Upper Air Data

Upper-air data are collected by a “weather balloon” that is released twice per day at selected locations. As the balloon is released, it rises through the atmosphere, and radios the data back to the surface. The measuring and transmitting device is known as either a radiosonde, or rawinsonde. Data collected and radioed back include: air pressure, height, temperature, dew point, wind speed, and wind direction. The upper air data were processed through AERMET Stage 1, which performs data extraction and quality control checks.

For Crystal River Power Plant, the concurrent 2007 through 2011 upper air data from twice-daily radiosonde measurements obtained at the most representative location were used. This location was the Tampa Bay/Ruskin, Florida measurement station. These data are in Forecast Systems Laboratory (FSL) format and were downloaded in ASCII text format from NOAA’s FSL website.¹¹ All reporting levels were downloaded and processed with AERMET.

4.5.3 AERSURFACE

AERSURFACE is a non-guideline program that extracts surface roughness, albedo, and daytime Bowen ratio for an area surrounding a given location. AERSURFACE uses land use and land cover (LULC) data in the U.S. Geological Survey’s 1992 National Land Cover Dataset to extract the necessary micrometeorological data. LULC data was used for processing meteorological data sets used as input to AERMOD.

AERSURFACE v. 08009 was used to develop surface roughness, albedo, and daytime Bowen ratio values in a region surrounding the meteorological data collection site. AERSURFACE was used to develop surface roughness in a one kilometer radius surrounding the data collection site. Bowen ratio and albedo was developed for a 10 kilometer by 10 kilometer area centered on the meteorological data collection site. These micrometeorological data were processed for seasonal

¹¹ Available at: <http://esrl.noaa.gov/raobs/>

periods using 30-degree sectors. Seasonal moisture conditions were considered average with no months with continuous snow cover.

4.5.4 Data Review

Missing meteorological data were not filled as the data file met USEPA's 90% data completeness requirement.¹² The AERMOD output file shows there were 6.0% missing data.

The representativeness of airport meteorological data is a potential concern in modeling industrial source sites.¹³ The surface characteristics of the airport data collection site and the modeled source location were compared. Since the Hernando County Airport is located close to Crystal River Power Plant, this meteorological data set was considered appropriate for this modeling analysis.

5. Background SO₂ Concentrations

Background concentrations were determined consistent with USEPA's Modeling Guidance for SO₂ NAAQS Designations.¹⁴ To preserve the form of the 1-hour SO₂ standard, based on the 99th percentile of the annual distribution of daily maximum 1-hour concentrations averaged across the number of years modeled, the background fourth-highest daily maximum 1-hour SO₂ concentration was added to the modeled fourth-highest daily maximum 1-hour SO₂ concentration.¹⁵

Background concentrations were based on the 2008-10 design value measured by the ambient monitors located in Florida.¹⁶

6. Reporting

All files from the programs used for this modeling analysis are available to regulatory agencies. These include analyses prepared with AERSURFACE, AERMET, AERMAP, and AERMOD.

¹² USEPA, Meteorological Monitoring Guidance for Regulatory Modeling Applications, EPA-454/R-99-05, February 2000, Section 5.3.2, pp. 5-4 to 5-5.

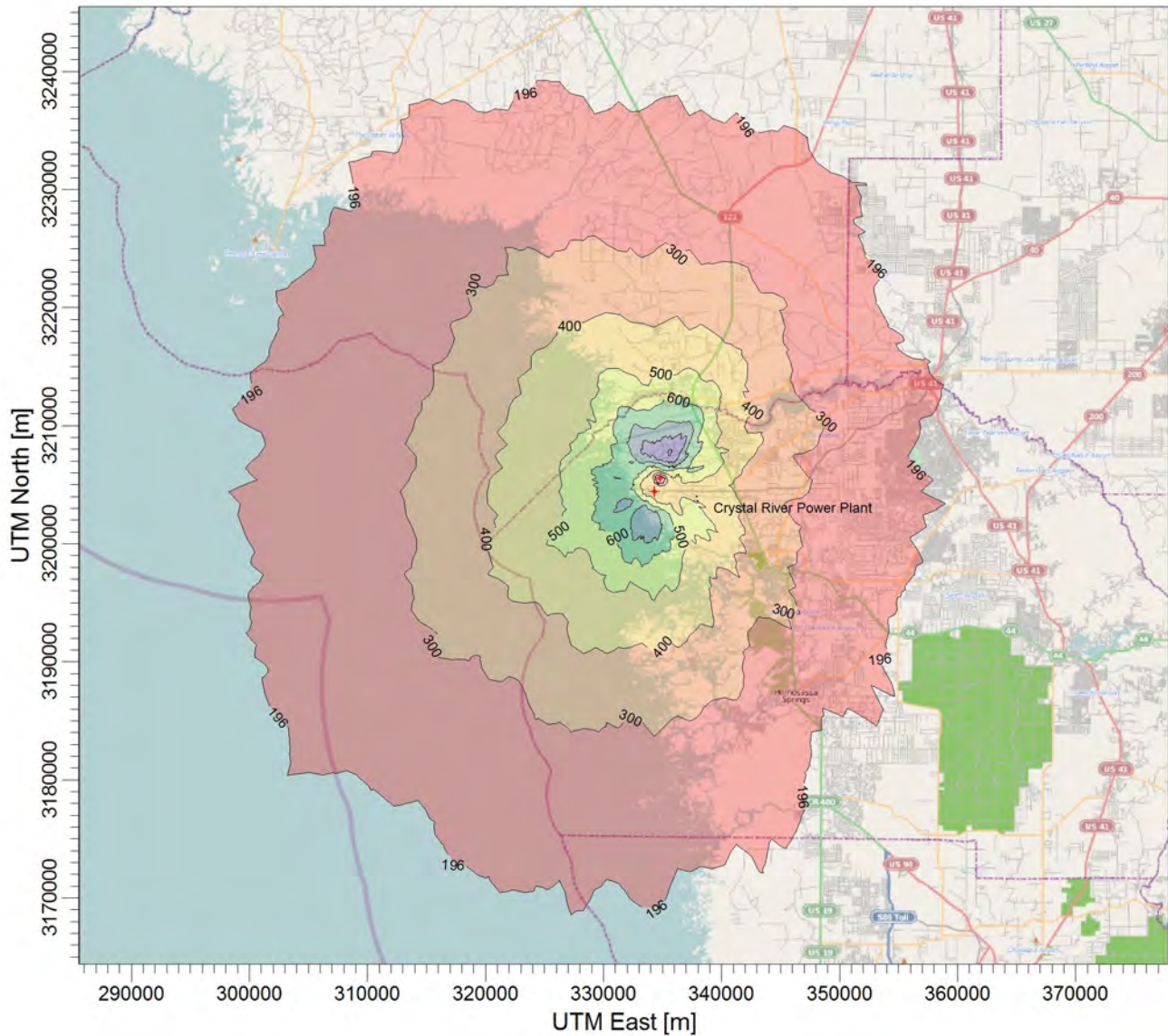
¹³ USEPA, AERMOD Implementation Guide, March 19, 2009, pp. 3-4.

¹⁴ USEPA, Area Designations for the 2010 Revised Primary Sulfur Dioxide National Ambient Air Quality Standards, Attachment 3, March 24, 2011, pp. 20-23.

¹⁵ USEPA, Applicability of Appendix W Modeling Guidance for the 1-hour SO₂ National Ambient Air Quality Standard, August 23, 2010, p. 3.

¹⁶ <http://www.epa.gov/airtrends/values.html>

Crystal River Power Plant - Crystal River, Florida
Evaluation of Compliance with the 1-hour NAAQS for SO2

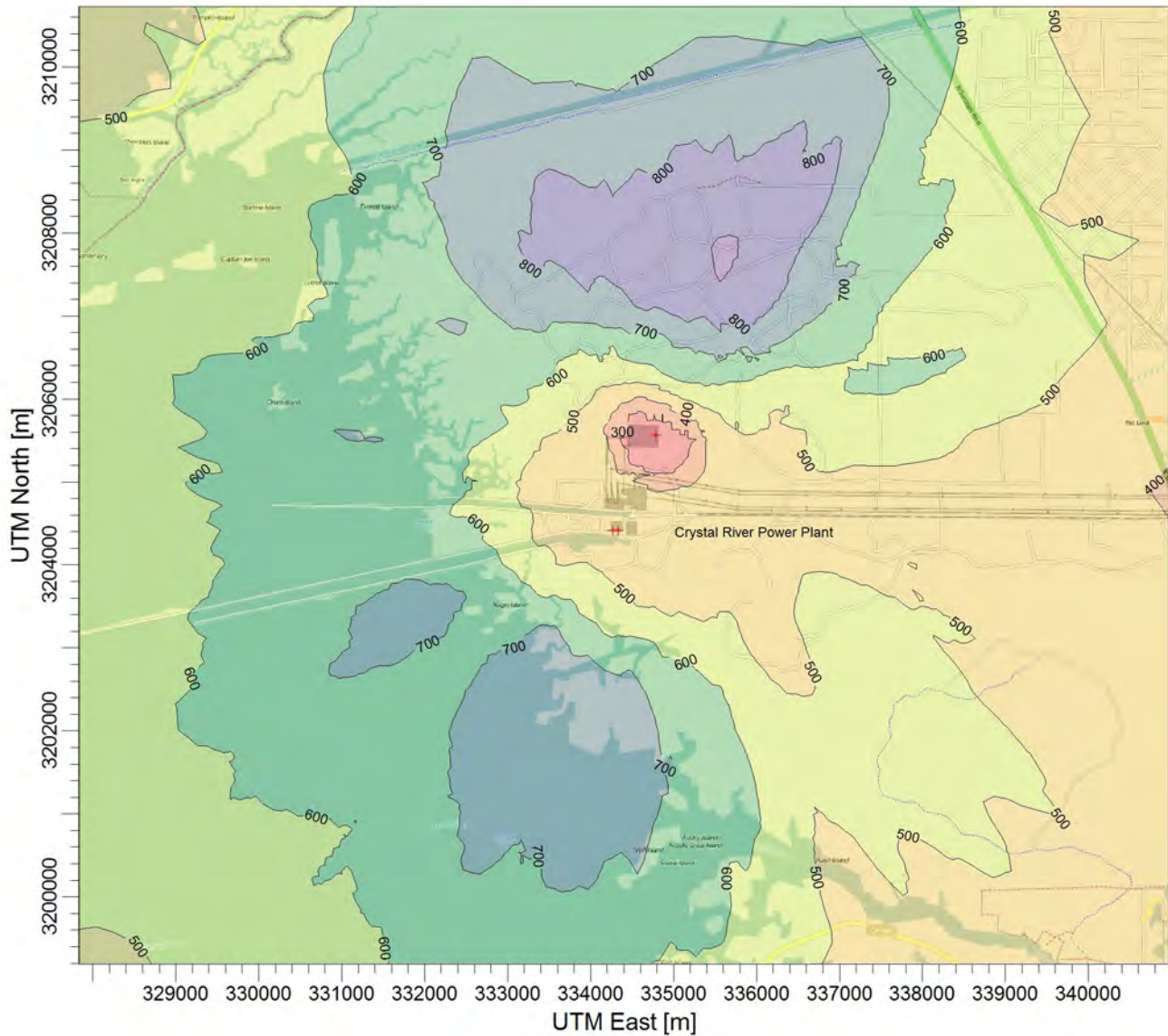


1-hour average SO2 concentrations (ug per cubic meter) - All colored areas exceed the NAAQS.



| | | | |
|--|--|---|--|
| <p>All concentrations include a background of 5.2 ug/m³. This figure is based on allowable emissions.</p> | Total Sources 6 | Conducted on behalf of the Sierra Club by Wingra Engineering, S.C. | |
| | Total Receptors 22083 | | |
| | Output Type Concentration | SCALE: 1:580,926 0 20 km | |
| | Maximum 921.02714 ug/m³ | DATE: 6/25/2012 | |

Crystal River Power Plant - Crystal River, Florida
Evaluation of Compliance with the 1-hour NAAQS for SO₂



1-hour average SO₂ concentrations (ug per cubic meter) - All colored areas exceed the NAAQS.



| | | | |
|--|--|---|--|
| <p>All concentrations include a background of 5.2 ug/m³. This figure is based on allowable emissions.</p> | Total Sources 6 | Conducted on behalf of the Sierra Club by Wingra Engineering, S.C. | |
| | Total Receptors 22083 | | |
| | Output Type Concentration | SCALE: 1:82,636 0 3 km | |
| | Maximum 921.02714 ug/m³ | DATE: 6/25/2012 | |

Exhibit H

| State | Facility Name | Unit ID | Year | Date | Hour | SO2 (pounds) | SO2 Rate (lbs/MMBtu) | NOx (pounds) | CO2 (tons) | Heat Input (MMBtu) | Gross Load (MW) |
|-------|---------------|---------|------|----------|------|--------------|----------------------|--------------|------------|--------------------|-----------------|
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 0 | 2267 | 1.649567052 | 511 | 141 | 1374.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 1 | 2295 | 1.667756704 | 522 | 141 | 1376.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 2 | 2313 | 1.673298126 | 507 | 141 | 1382.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 3 | 2367 | 1.669605699 | 517 | 145 | 1417.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 4 | 2351 | 1.673905304 | 523 | 144 | 1404.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 5 | 2386 | 1.672977142 | 530 | 146 | 1426.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 6 | 2307 | 1.663781913 | 522 | 142 | 1386.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 7 | 2300 | 1.644384071 | 524 | 143 | 1398.7 | 120 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 8 | 2409 | 1.614394853 | 544 | 153 | 1492.2 | 134 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 9 | 2572 | 1.57791411 | 546 | 167 | 1630 | 150 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 10 | 3074 | 1.577704783 | 627 | 199 | 1948.4 | 191 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 11 | 5254 | 1.580150376 | 1123 | 341 | 3325 | 338 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 12 | 6379 | 1.593913196 | 1500 | 410 | 4002.1 | 367 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 13 | 6678 | 1.604285783 | 1536 | 427 | 4162.6 | 373 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 14 | 5730 | 1.644897373 | 1281 | 357 | 3483.5 | 365 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 15 | 5575 | 1.642362645 | 1262 | 348 | 3394.5 | 354 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 16 | 5269 | 1.616108947 | 1232 | 334 | 3260.3 | 339 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 17 | 4142 | 1.576943577 | 1050 | 269 | 2626.6 | 275 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 18 | 2853 | 1.513849093 | 578 | 193 | 1884.6 | 189 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 19 | 2040 | 1.486988848 | 474 | 140 | 1371.9 | 123 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 20 | 2013 | 1.484513274 | 461 | 139 | 1356 | 119 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 21 | 2026 | 1.490911767 | 468 | 139 | 1358.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 22 | 2025 | 1.487985892 | 477 | 139 | 1360.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 23 | 2018 | 1.479580614 | 477 | 139 | 1363.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 0 | 2029 | 1.483837941 | 482 | 140 | 1367.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 1 | 2085 | 1.480718699 | 497 | 144 | 1408.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 2 | 2091 | 1.48392591 | 498 | 144 | 1409.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 3 | 2110 | 1.496878547 | 483 | 144 | 1409.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 4 | 2121 | 1.520212156 | 481 | 143 | 1395.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 5 | 2179 | 1.530626581 | 495 | 146 | 1423.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 6 | 2171 | 1.558171248 | 484 | 143 | 1393.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 7 | 2132 | 1.560647098 | 479 | 140 | 1366.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 8 | 2122 | 1.568018917 | 470 | 138 | 1353.3 | 121 |

| | | | | | | | | | | | |
|----|---------------|---|------|----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 9 | 3211 | 1.573942454 | 579 | 209 | 2040.1 | 197 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 10 | 3987 | 1.584910161 | 787 | 258 | 2515.6 | 256 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 11 | 6496 | 1.600315333 | 1485 | 416 | 4059.2 | 366 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 12 | 6646 | 1.577872745 | 1651 | 432 | 4212 | 378 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 13 | 6558 | 1.544403363 | 1673 | 435 | 4246.3 | 379 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 14 | 5573 | 1.544323441 | 1403 | 370 | 3608.7 | 372 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 15 | 5604 | 1.56457647 | 1393 | 367 | 3581.8 | 372 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 16 | 5628 | 1.585084211 | 1381 | 364 | 3550.6 | 369 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 17 | 5595 | 1.636443405 | 1347 | 350 | 3419 | 356 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 18 | 5488 | 1.666464229 | 1264 | 337 | 3293.2 | 342 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 19 | 5591 | 1.696607392 | 1318 | 338 | 3295.4 | 341 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 20 | 3351 | 1.653426753 | 871 | 207 | 2026.7 | 206 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 21 | 2220 | 1.639828631 | 472 | 138 | 1353.8 | 121 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 22 | 2236 | 1.605629757 | 466 | 142 | 1392.6 | 125 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 23 | 2111 | 1.563935398 | 469 | 138 | 1349.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 0 | 2073 | 1.528084918 | 477 | 139 | 1356.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 1 | 2091 | 1.511056511 | 481 | 142 | 1383.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 2 | 2090 | 1.496277205 | 490 | 143 | 1396.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 3 | 2090 | 1.507066628 | 493 | 142 | 1386.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 4 | 2084 | 1.511349627 | 493 | 141 | 1378.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 5 | 2151 | 1.519175083 | 504 | 145 | 1415.9 | 121 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 6 | 2037 | 1.492089071 | 466 | 140 | 1365.2 | 121 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 7 | 2189 | 1.481356162 | 472 | 151 | 1477.7 | 132 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 8 | 2521 | 1.47616817 | 488 | 175 | 1707.8 | 158 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 9 | 3147 | 1.509569722 | 560 | 213 | 2084.7 | 206 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 10 | 4442 | 1.58275432 | 934 | 287 | 2806.5 | 291 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 11 | 6285 | 1.617885551 | 1429 | 398 | 3884.7 | 360 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 12 | 6760 | 1.605243161 | 1490 | 432 | 4211.2 | 379 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 13 | 6721 | 1.588025424 | 1549 | 434 | 4232.3 | 378 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 14 | 6112 | 1.577086828 | 1422 | 397 | 3875.5 | 379 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 15 | 5488 | 1.581966504 | 1245 | 355 | 3469.1 | 366 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 16 | 5357 | 1.560351858 | 1201 | 352 | 3433.2 | 359 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 17 | 5407 | 1.568746917 | 1237 | 353 | 3446.7 | 361 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 18 | 5684 | 1.588685785 | 1252 | 367 | 3577.8 | 374 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 19 | 5725 | 1.619839855 | 1198 | 362 | 3534.3 | 370 |

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|----|---------------|---|------|----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 20 | 4372 | 1.646890421 | 910 | 272 | 2654.7 | 278 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 21 | 2321 | 1.667385057 | 444 | 142 | 1392 | 120 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 22 | 2393 | 1.727797834 | 423 | 142 | 1385 | 119 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 23 | 2464 | 1.797228301 | 431 | 140 | 1371 | 119 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 0 | 2465 | 1.795731041 | 435 | 140 | 1372.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 1 | 2382 | 1.726462274 | 441 | 141 | 1379.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 2 | 2269 | 1.700644581 | 444 | 136 | 1334.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 3 | 2250 | 1.686656672 | 442 | 136 | 1334 | 119 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 4 | 2320 | 1.710536017 | 447 | 139 | 1356.3 | 122 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 5 | 2470 | 1.738212526 | 476 | 145 | 1421 | 125 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 6 | 2337 | 1.722689076 | 459 | 139 | 1356.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 7 | 2330 | 1.708336388 | 458 | 139 | 1363.9 | 121 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 8 | 3116 | 1.689346706 | 461 | 189 | 1844.5 | 176 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 9 | 4609 | 1.685500091 | 768 | 280 | 2734.5 | 284 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 10 | 6680 | 1.666625084 | 1358 | 411 | 4008.1 | 372 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 11 | 6868 | 1.646015578 | 1431 | 428 | 4172.5 | 375 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 12 | 6796 | 1.642498067 | 1444 | 424 | 4137.6 | 377 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 13 | 6036 | 1.653336255 | 1281 | 374 | 3650.8 | 377 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 14 | 5954 | 1.691092933 | 1264 | 361 | 3520.8 | 375 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 15 | 5729 | 1.70136311 | 1208 | 345 | 3367.3 | 357 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 16 | 5645 | 1.707914801 | 1180 | 339 | 3305.2 | 350 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 17 | 4494 | 1.667718113 | 821 | 276 | 2694.7 | 291 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 18 | 4609 | 1.693924804 | 783 | 279 | 2720.9 | 290 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 19 | 3433 | 1.757358587 | 588 | 200 | 1953.5 | 198 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 20 | 2486 | 1.760623229 | 471 | 144 | 1412 | 123 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 21 | 2415 | 1.757514009 | 445 | 141 | 1374.1 | 121 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 22 | 2467 | 1.736956981 | 448 | 145 | 1420.3 | 125 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 23 | 2349 | 1.676061363 | 454 | 143 | 1401.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 0 | 2276 | 1.65190884 | 446 | 141 | 1377.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 1 | 2252 | 1.64044289 | 442 | 140 | 1372.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 2 | 2216 | 1.624871682 | 421 | 139 | 1363.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 3 | 2259 | 1.642550716 | 430 | 141 | 1375.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 4 | 2248 | 1.644236396 | 429 | 140 | 1367.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 5 | 2281 | 1.641834017 | 439 | 142 | 1389.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 6 | 2193 | 1.630362055 | 441 | 138 | 1345.1 | 119 |

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|----|---------------|---|------|----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 7 | 2261 | 1.629314693 | 457 | 142 | 1387.7 | 124 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 8 | 3106 | 1.649845958 | 513 | 193 | 1882.6 | 193 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 9 | 3820 | 1.698683742 | 647 | 230 | 2248.8 | 227 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 10 | 4500 | 1.727646178 | 778 | 267 | 2604.7 | 274 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 11 | 7199 | 1.738217114 | 1532 | 424 | 4141.6 | 373 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 12 | 6968 | 1.71820289 | 1545 | 416 | 4055.4 | 367 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 13 | 7138 | 1.715741653 | 1572 | 426 | 4160.3 | 377 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 14 | 7159 | 1.716992445 | 1567 | 427 | 4169.5 | 378 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 15 | 7207 | 1.725318395 | 1574 | 428 | 4177.2 | 378 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 16 | 7020 | 1.718734698 | 1535 | 419 | 4084.4 | 377 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 17 | 5710 | 1.70188668 | 1321 | 344 | 3355.1 | 352 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 18 | 5477 | 1.684919707 | 1251 | 333 | 3250.6 | 345 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 19 | 5906 | 1.711288827 | 1328 | 354 | 3451.2 | 367 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 20 | 5365 | 1.715153453 | 1210 | 320 | 3128 | 333 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 21 | 3193 | 1.689954483 | 566 | 193 | 1889.4 | 192 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 22 | 2601 | 1.690278139 | 474 | 157 | 1538.8 | 147 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 23 | 2199 | 1.6732613 | 445 | 134 | 1314.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 0 | 2227 | 1.666666667 | 445 | 137 | 1336.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 1 | 2234 | 1.671154997 | 446 | 137 | 1336.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 2 | 2235 | 1.693951796 | 448 | 135 | 1319.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 3 | 2226 | 1.698847592 | 445 | 134 | 1310.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 4 | 2255 | 1.711445052 | 451 | 135 | 1317.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 5 | 2283 | 1.717186912 | 450 | 136 | 1329.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 6 | 2224 | 1.68881464 | 451 | 135 | 1316.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 7 | 2322 | 1.695633124 | 447 | 140 | 1369.4 | 126 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 8 | 4106 | 1.717847879 | 666 | 245 | 2390.2 | 244 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 9 | 6303 | 1.746225239 | 1230 | 370 | 3609.5 | 347 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 10 | 7366 | 1.74446418 | 1613 | 433 | 4222.5 | 385 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 11 | 7367 | 1.748095769 | 1614 | 432 | 4214.3 | 387 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 12 | 7383 | 1.74671146 | 1631 | 433 | 4226.8 | 387 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 13 | 7355 | 1.733811084 | 1595 | 435 | 4242.1 | 384 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 14 | 7315 | 1.730541755 | 1614 | 433 | 4227 | 386 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 15 | 6833 | 1.723546475 | 1518 | 406 | 3964.5 | 382 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 16 | 4811 | 1.703069135 | 1079 | 289 | 2824.9 | 305 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 17 | 3340 | 1.682619647 | 625 | 203 | 1985 | 196 |

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|----|---------------|---|------|----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 18 | 2476 | 1.637674449 | 488 | 155 | 1511.9 | 129 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 19 | 2443 | 1.636083579 | 476 | 153 | 1493.2 | 128 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 20 | 2297 | 1.646713026 | 456 | 143 | 1394.9 | 120 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 21 | 2283 | 1.656147987 | 453 | 141 | 1378.5 | 121 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 22 | 2237 | 1.637148712 | 452 | 140 | 1366.4 | 121 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 23 | 2280 | 1.634994622 | 463 | 143 | 1394.5 | 121 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 0 | 2286 | 1.620701879 | 475 | 144 | 1410.5 | 121 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 1 | 2317 | 1.613060429 | 489 | 147 | 1436.4 | 121 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 2 | 2343 | 1.618988391 | 503 | 148 | 1447.2 | 121 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 3 | 2386 | 1.620373514 | 516 | 151 | 1472.5 | 121 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 4 | 2338 | 1.59764931 | 521 | 150 | 1463.4 | 121 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 5 | 2402 | 1.599307544 | 534 | 154 | 1501.9 | 121 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 6 | 2387 | 1.595588235 | 529 | 153 | 1496 | 121 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 7 | 2297 | 1.579345435 | 516 | 149 | 1454.4 | 121 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 8 | 2265 | 1.573463008 | 511 | 147 | 1439.5 | 123 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 9 | 2665 | 1.587916344 | 527 | 172 | 1678.3 | 154 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 10 | 4530 | 1.628266417 | 856 | 285 | 2782.1 | 286 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 11 | 5951 | 1.675346978 | 1371 | 364 | 3552.1 | 378 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 12 | 6643 | 1.681814729 | 1587 | 405 | 3949.9 | 386 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 13 | 7172 | 1.689318102 | 1706 | 435 | 4245.5 | 388 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 14 | 7142 | 1.678377553 | 1740 | 436 | 4255.3 | 388 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 15 | 7050 | 1.657068986 | 1748 | 436 | 4254.5 | 388 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 16 | 6180 | 1.652980983 | 1536 | 383 | 3738.7 | 388 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 17 | 5496 | 1.675048002 | 1391 | 336 | 3281.1 | 351 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 18 | 4520 | 1.653739207 | 1005 | 280 | 2733.2 | 291 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 19 | 5238 | 1.677340848 | 1186 | 320 | 3122.8 | 328 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 20 | 3422 | 1.665044764 | 696 | 210 | 2055.2 | 212 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 21 | 2185 | 1.626228044 | 460 | 137 | 1343.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 22 | 2214 | 1.631179548 | 453 | 139 | 1357.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 23 | 2223 | 1.640227256 | 454 | 139 | 1355.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 0 | 2235 | 1.641933588 | 457 | 139 | 1361.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 1 | 2251 | 1.650172275 | 465 | 140 | 1364.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 2 | 2266 | 1.648239744 | 468 | 141 | 1374.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 3 | 2253 | 1.634148111 | 467 | 141 | 1378.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 4 | 2255 | 1.627101522 | 479 | 142 | 1385.9 | 119 |

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|----|---------------|---|------|----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 5 | 2250 | 1.600739898 | 475 | 144 | 1405.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 6 | 2217 | 1.583119109 | 478 | 143 | 1400.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 7 | 2217 | 1.587199313 | 480 | 143 | 1396.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 8 | 2237 | 1.591944207 | 491 | 144 | 1405.2 | 123 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 9 | 3147 | 1.603566879 | 586 | 201 | 1962.5 | 190 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 10 | 5521 | 1.684515637 | 1163 | 336 | 3277.5 | 344 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 11 | 6111 | 1.719229146 | 1329 | 364 | 3554.5 | 381 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 12 | 6895 | 1.731237603 | 1493 | 408 | 3982.7 | 387 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 13 | 7089 | 1.728813559 | 1537 | 420 | 4100.5 | 386 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 14 | 6186 | 1.713383559 | 1364 | 370 | 3610.4 | 387 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 15 | 6142 | 1.70006643 | 1409 | 370 | 3612.8 | 387 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 16 | 6138 | 1.695111848 | 1408 | 371 | 3621 | 387 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 17 | 5222 | 1.704196854 | 1182 | 314 | 3064.2 | 330 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 18 | 4761 | 1.734363047 | 952 | 281 | 2745.1 | 294 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 19 | 6179 | 1.788215547 | 1240 | 354 | 3455.4 | 366 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 20 | 5115 | 1.791530945 | 1190 | 292 | 2855.1 | 304 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 21 | 4108 | 1.802782288 | 811 | 233 | 2278.7 | 240 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 22 | 2863 | 1.793634883 | 547 | 163 | 1596.2 | 154 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 23 | 2365 | 1.737054719 | 480 | 139 | 1361.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 0 | 2482 | 1.685568761 | 500 | 151 | 1472.5 | 124 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 1 | 2335 | 1.643903126 | 542 | 145 | 1420.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 2 | 2268 | 1.595273264 | 553 | 145 | 1421.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 3 | 2220 | 1.554404145 | 561 | 146 | 1428.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 4 | 2167 | 1.521235521 | 575 | 146 | 1424.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 5 | 2206 | 1.496100373 | 573 | 151 | 1474.5 | 124 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 6 | 2033 | 1.46734031 | 559 | 142 | 1385.5 | 120 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 7 | 2258 | 1.470339259 | 563 | 157 | 1535.7 | 138 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 8 | 2517 | 1.466185123 | 547 | 176 | 1716.7 | 162 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 9 | 2743 | 1.472672608 | 542 | 191 | 1862.6 | 183 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 10 | 2658 | 1.463414634 | 572 | 186 | 1816.3 | 178 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 11 | 4407 | 1.56765794 | 851 | 288 | 2811.2 | 298 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 12 | 5529 | 1.613694072 | 1305 | 351 | 3426.3 | 368 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 13 | 6009 | 1.605568321 | 1414 | 384 | 3742.6 | 386 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 14 | 5748 | 1.607652291 | 1330 | 366 | 3575.4 | 388 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 15 | 5711 | 1.597840076 | 1336 | 366 | 3574.2 | 387 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 16 | 5680 | 1.580851656 | 1333 | 368 | 3593 | 387 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 17 | 5582 | 1.600252279 | 1322 | 357 | 3488.2 | 377 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 18 | 5351 | 1.627383595 | 1285 | 337 | 3288.1 | 352 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 19 | 5396 | 1.676088712 | 1281 | 330 | 3219.4 | 345 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 20 | 4195 | 1.682239243 | 1017 | 255 | 2493.7 | 267 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 21 | 2888 | 1.753810652 | 564 | 169 | 1646.7 | 161 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 22 | 2403 | 1.768211921 | 540 | 139 | 1359 | 120 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 23 | 2381 | 1.738844665 | 554 | 140 | 1369.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 0 | 2363 | 1.710459645 | 560 | 141 | 1381.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 1 | 2390 | 1.700704476 | 573 | 144 | 1405.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 2 | 2391 | 1.711647219 | 581 | 143 | 1396.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 3 | 2420 | 1.720216093 | 585 | 144 | 1406.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 4 | 2484 | 1.755104925 | 593 | 145 | 1415.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 5 | 2524 | 1.760357093 | 593 | 147 | 1433.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 6 | 2486 | 1.791324398 | 588 | 142 | 1387.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 7 | 2529 | 1.800128123 | 578 | 144 | 1404.9 | 120 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 8 | 2920 | 1.822949182 | 567 | 164 | 1601.8 | 149 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 9 | 3811 | 1.838309778 | 605 | 212 | 2073.1 | 208 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 10 | 5225 | 1.779268542 | 992 | 301 | 2936.6 | 313 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 11 | 6201 | 1.761197421 | 1327 | 361 | 3520.9 | 380 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 12 | 6153 | 1.789026837 | 1303 | 352 | 3439.3 | 374 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 13 | 6261 | 1.777027219 | 1324 | 361 | 3523.3 | 382 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 14 | 6312 | 1.768612177 | 1349 | 366 | 3568.9 | 387 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 15 | 6338 | 1.775897335 | 1352 | 366 | 3568.9 | 387 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 16 | 6403 | 1.803560363 | 1352 | 364 | 3550.2 | 387 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 17 | 6002 | 1.804678574 | 1247 | 341 | 3325.8 | 360 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 18 | 5813 | 1.786526523 | 1106 | 333 | 3253.8 | 351 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 19 | 6158 | 1.764419358 | 1305 | 358 | 3490.1 | 378 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 20 | 4960 | 1.717392057 | 1074 | 296 | 2888.1 | 312 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 21 | 2877 | 1.689967105 | 572 | 174 | 1702.4 | 165 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 22 | 2494 | 1.66255583 | 507 | 153 | 1500.1 | 129 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 23 | 2367 | 1.65408805 | 515 | 146 | 1431 | 119 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 0 | 2353 | 1.649029364 | 519 | 146 | 1426.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 1 | 2342 | 1.627858483 | 526 | 147 | 1438.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 2 | 2292 | 1.628303495 | 526 | 144 | 1407.6 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 3 | 2283 | 1.606954318 | 524 | 145 | 1420.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 4 | 2282 | 1.611695741 | 526 | 145 | 1415.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 5 | 2725 | 1.633007731 | 512 | 171 | 1668.7 | 151 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 6 | 2351 | 1.634682242 | 545 | 147 | 1438.2 | 125 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 7 | 2427 | 1.633133706 | 552 | 152 | 1486.1 | 128 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 8 | 3184 | 1.647010139 | 566 | 198 | 1933.2 | 191 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 9 | 5257 | 1.690190657 | 948 | 319 | 3110.3 | 333 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 10 | 5949 | 1.698743575 | 1320 | 359 | 3502 | 379 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 11 | 5829 | 1.666857306 | 1314 | 358 | 3497 | 380 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 12 | 5352 | 1.692920858 | 1248 | 324 | 3161.4 | 345 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 13 | 5235 | 1.711119827 | 1070 | 313 | 3059.4 | 335 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 14 | 6019 | 1.726620769 | 1328 | 357 | 3486 | 382 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 15 | 6074 | 1.705461182 | 1353 | 365 | 3561.5 | 384 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 16 | 5982 | 1.704564883 | 1326 | 360 | 3509.4 | 383 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 17 | 5703 | 1.686828951 | 1278 | 346 | 3380.9 | 371 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 18 | 5790 | 1.706655662 | 1241 | 348 | 3392.6 | 370 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 19 | 5966 | 1.715501625 | 1311 | 356 | 3477.7 | 377 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 20 | 5408 | 1.70518682 | 1125 | 325 | 3171.5 | 344 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 21 | 5337 | 1.711619255 | 1032 | 319 | 3118.1 | 337 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 22 | 4636 | 1.680806323 | 979 | 283 | 2758.2 | 298 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 23 | 2465 | 1.631477927 | 533 | 155 | 1510.9 | 135 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 0 | 2292 | 1.616817156 | 548 | 145 | 1417.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 1 | 2286 | 1.610085928 | 543 | 145 | 1419.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 2 | 2277 | 1.62156388 | 533 | 144 | 1404.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 3 | 2279 | 1.612081771 | 541 | 145 | 1413.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 4 | 2258 | 1.604832978 | 543 | 144 | 1407 | 119 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 5 | 2578 | 1.613872543 | 538 | 163 | 1597.4 | 143 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 6 | 2250 | 1.60944206 | 580 | 143 | 1398 | 122 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 7 | 2377 | 1.607275678 | 579 | 151 | 1478.9 | 130 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 8 | 3161 | 1.627619587 | 607 | 199 | 1942.1 | 197 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 9 | 4537 | 1.669672101 | 836 | 278 | 2717.3 | 294 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 10 | 5152 | 1.660275209 | 1104 | 318 | 3103.1 | 333 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 11 | 6129 | 1.645943551 | 1437 | 382 | 3723.7 | 366 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 12 | 6846 | 1.647772402 | 1545 | 426 | 4154.7 | 385 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 13 | 6470 | 1.648911769 | 1459 | 402 | 3923.8 | 360 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 14 | 6678 | 1.652070655 | 1523 | 414 | 4042.2 | 377 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 15 | 6659 | 1.66358549 | 1525 | 410 | 4002.8 | 383 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 16 | 5891 | 1.644795622 | 1407 | 367 | 3581.6 | 372 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 17 | 5431 | 1.647654875 | 1308 | 338 | 3296.2 | 355 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 18 | 4878 | 1.634225602 | 1041 | 306 | 2984.9 | 324 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 19 | 5347 | 1.642047723 | 1299 | 334 | 3256.3 | 351 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 20 | 3702 | 1.622119008 | 791 | 234 | 2282.2 | 243 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 21 | 2288 | 1.593536704 | 542 | 147 | 1435.8 | 124 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 22 | 2239 | 1.603638447 | 552 | 143 | 1396.2 | 120 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 23 | 2214 | 1.601678362 | 586 | 141 | 1382.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 0 | 2185 | 1.592797784 | 581 | 140 | 1371.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 1 | 2177 | 1.591723331 | 581 | 140 | 1367.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 2 | 2208 | 1.589175184 | 591 | 142 | 1389.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 3 | 2206 | 1.589108198 | 590 | 142 | 1388.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 4 | 2217 | 1.589931153 | 596 | 143 | 1394.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 5 | 2254 | 1.588890455 | 602 | 145 | 1418.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 6 | 2206 | 1.607520222 | 590 | 140 | 1372.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 7 | 2221 | 1.622707679 | 584 | 140 | 1368.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 8 | 2323 | 1.650092343 | 547 | 144 | 1407.8 | 130 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 9 | 2817 | 1.653654241 | 565 | 174 | 1703.5 | 171 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 10 | 4820 | 1.662298248 | 919 | 297 | 2899.6 | 285 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 11 | 7046 | 1.670380731 | 1548 | 432 | 4218.2 | 386 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 12 | 7111 | 1.669248826 | 1589 | 437 | 4260 | 391 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 13 | 7081 | 1.666784361 | 1686 | 435 | 4248.3 | 392 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 14 | 7045 | 1.653911165 | 1729 | 437 | 4259.6 | 391 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 15 | 6188 | 1.640291584 | 1520 | 387 | 3772.5 | 389 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 16 | 5924 | 1.638410266 | 1435 | 371 | 3615.7 | 388 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 17 | 5441 | 1.640337655 | 1346 | 340 | 3317 | 354 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 18 | 4310 | 1.620666316 | 1047 | 272 | 2659.4 | 282 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 19 | 4482 | 1.624030727 | 1040 | 283 | 2759.8 | 291 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 20 | 2403 | 1.592761981 | 567 | 154 | 1508.7 | 144 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 21 | 2077 | 1.574558411 | 534 | 135 | 1319.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 22 | 2060 | 1.586934751 | 528 | 133 | 1298.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 23 | 2067 | 1.582574075 | 523 | 134 | 1306.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 0 | 2085 | 1.58002425 | 530 | 135 | 1319.6 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 1 | 2082 | 1.579186893 | 530 | 135 | 1318.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 2 | 2083 | 1.571601026 | 535 | 136 | 1325.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 3 | 2117 | 1.577496274 | 547 | 137 | 1342 | 119 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 4 | 2120 | 1.586588834 | 549 | 137 | 1336.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 5 | 2145 | 1.575352526 | 558 | 139 | 1361.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 6 | 2117 | 1.563400044 | 549 | 138 | 1354.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 7 | 2091 | 1.567701305 | 549 | 136 | 1333.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 8 | 2494 | 1.557971014 | 550 | 164 | 1600.8 | 152 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 9 | 2627 | 1.554897899 | 581 | 173 | 1689.5 | 167 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 10 | 3734 | 1.568841645 | 778 | 244 | 2380.1 | 242 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 11 | 6559 | 1.607046602 | 1559 | 418 | 4081.4 | 369 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 12 | 6266 | 1.602393617 | 1486 | 401 | 3910.4 | 367 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 13 | 5899 | 1.610296727 | 1278 | 375 | 3663.3 | 369 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 14 | 6805 | 1.600047026 | 1501 | 436 | 4253 | 389 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 15 | 6902 | 1.625989446 | 1532 | 435 | 4244.8 | 391 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 16 | 6453 | 1.62921632 | 1485 | 406 | 3960.8 | 391 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 17 | 5800 | 1.62797878 | 1368 | 365 | 3562.7 | 381 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 18 | 5437 | 1.617817717 | 1219 | 344 | 3360.7 | 357 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 19 | 4861 | 1.612806901 | 1154 | 309 | 3014 | 322 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 20 | 3269 | 1.584355159 | 662 | 211 | 2063.3 | 216 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 21 | 2055 | 1.560957083 | 499 | 135 | 1316.5 | 124 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 22 | 2057 | 1.539209817 | 493 | 137 | 1336.4 | 122 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 23 | 2037 | 1.544703117 | 510 | 135 | 1318.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 0 | 2057 | 1.532786885 | 540 | 137 | 1342 | 119 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 1 | 2061 | 1.537142005 | 544 | 137 | 1340.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 2 | 2078 | 1.540286117 | 547 | 138 | 1349.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 3 | 2099 | 1.523664344 | 545 | 141 | 1377.6 | 120 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 4 | 2151 | 1.532597079 | 734 | 144 | 1403.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 5 | 2176 | 1.581395349 | 679 | 141 | 1376 | 119 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 6 | 2152 | 1.580145385 | 649 | 139 | 1361.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 7 | 2274 | 1.571201548 | 686 | 148 | 1447.3 | 127 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 8 | 2661 | 1.578385432 | 748 | 173 | 1685.9 | 156 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 9 | 2604 | 1.600491703 | 771 | 166 | 1627 | 158 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 10 | 4975 | 1.650630392 | 1259 | 309 | 3014 | 316 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 11 | 6197 | 1.656199054 | 1485 | 383 | 3741.7 | 362 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 12 | 6771 | 1.665723634 | 1613 | 417 | 4064.9 | 368 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 13 | 6758 | 1.655682681 | 1575 | 418 | 4081.7 | 369 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 14 | 6651 | 1.671945701 | 1527 | 408 | 3978 | 369 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 15 | 4792 | 1.652527761 | 1217 | 297 | 2899.8 | 310 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 16 | 2930 | 1.62263942 | 678 | 185 | 1805.7 | 209 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 17 | 2227 | 1.579768745 | 555 | 144 | 1409.7 | 122 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 18 | 2391 | 1.57541016 | 499 | 155 | 1517.7 | 166 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 19 | 2171 | 1.539388783 | 555 | 144 | 1410.3 | 126 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 20 | 2196 | 1.530526903 | 586 | 147 | 1434.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 21 | 2198 | 1.528405535 | 606 | 147 | 1438.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 22 | 2189 | 1.529378886 | 601 | 146 | 1431.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 23 | 2161 | 1.519690577 | 557 | 145 | 1422 | 119 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 0 | 2080 | 1.514930808 | 483 | 140 | 1373 | 119 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 1 | 2094 | 1.525127458 | 464 | 140 | 1373 | 119 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 2 | 2113 | 1.522553682 | 453 | 142 | 1387.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 3 | 2111 | 1.521112552 | 458 | 142 | 1387.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 4 | 2074 | 1.526908636 | 468 | 139 | 1358.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 5 | 2098 | 1.528040787 | 473 | 140 | 1373 | 119 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 6 | 2060 | 1.516601634 | 476 | 139 | 1358.3 | 120 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 7 | 2091 | 1.522942462 | 479 | 140 | 1373 | 122 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 8 | 3742 | 1.547431974 | 645 | 248 | 2418.2 | 226 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 9 | 5263 | 1.591328274 | 1144 | 339 | 3307.3 | 355 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 10 | 5845 | 1.594424289 | 1708 | 376 | 3665.9 | 364 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 11 | 5818 | 1.587059112 | 1352 | 376 | 3665.9 | 363 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 12 | 5861 | 1.598788838 | 1253 | 376 | 3665.9 | 364 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 13 | 5885 | 1.59148683 | 1242 | 379 | 3697.8 | 364 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 14 | 6030 | 1.589561091 | 1198 | 389 | 3793.5 | 364 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 15 | 5917 | 1.586454675 | 1305 | 382 | 3729.7 | 364 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 16 | 5885 | 1.59148683 | 1327 | 379 | 3697.8 | 363 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 17 | 5412 | 1.582594964 | 1231 | 350 | 3419.7 | 363 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 18 | 5456 | 1.588632658 | 1243 | 352 | 3434.4 | 364 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 19 | 5405 | 1.597222222 | 1177 | 347 | 3384 | 356 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 20 | 3099 | 1.550120048 | 663 | 205 | 1999.2 | 204 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 21 | 2103 | 1.519508671 | 474 | 142 | 1384 | 119 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 22 | 2083 | 1.510624411 | 474 | 141 | 1378.9 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 23 | 2063 | 1.490606936 | 488 | 142 | 1384 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 0 | 2036 | 1.472481377 | 488 | 141 | 1382.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 1 | 1883 | 1.394711503 | 472 | 138 | 1350.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 2 | 1727 | 1.253811529 | 461 | 141 | 1377.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 3 | 1522 | 1.088308902 | 444 | 143 | 1398.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 4 | 1320 | 0.947663149 | 429 | 142 | 1392.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 5 | 1215 | 0.854610677 | 436 | 145 | 1421.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 6 | 1092 | 0.776229741 | 429 | 144 | 1406.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 7 | 1097 | 0.763024275 | 435 | 147 | 1437.7 | 120 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 8 | 1066 | 0.75618926 | 425 | 144 | 1409.7 | 123 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 9 | 1892 | 0.856496152 | 567 | 226 | 2209 | 218 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 10 | 3751 | 1.082914718 | 1208 | 355 | 3463.8 | 361 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 11 | 3784 | 1.100928108 | 1223 | 352 | 3437.1 | 364 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 12 | 3714 | 1.079745327 | 1155 | 352 | 3439.7 | 363 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 13 | 3512 | 1.024055985 | 1124 | 351 | 3429.5 | 364 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 14 | 3195 | 0.929616806 | 1110 | 352 | 3436.9 | 364 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 15 | 2906 | 0.846243448 | 1095 | 352 | 3434 | 364 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 16 | 2834 | 0.820070606 | 1078 | 354 | 3455.8 | 363 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 17 | 2256 | 0.78856304 | 921 | 293 | 2860.9 | 301 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 18 | 1108 | 0.755488886 | 491 | 150 | 1466.6 | 138 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 19 | 1012 | 0.746312684 | 417 | 139 | 1356 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 20 | 1008 | 0.74611399 | 425 | 138 | 1351 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 21 | 1018 | 0.744750896 | 429 | 140 | 1366.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 22 | 1022 | 0.737906137 | 430 | 142 | 1385 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 23 | 1033 | 0.735859809 | 433 | 144 | 1403.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 0 | 1038 | 0.733568905 | 438 | 145 | 1415 | 119 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 1 | 1054 | 0.737630345 | 445 | 146 | 1428.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 2 | 1064 | 0.737301642 | 448 | 148 | 1443.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 3 | 1091 | 0.749673607 | 448 | 149 | 1455.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 4 | 1110 | 0.75310401 | 458 | 151 | 1473.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 5 | 1123 | 0.751874665 | 470 | 153 | 1493.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 6 | 1100 | 0.755027799 | 464 | 149 | 1456.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 7 | 1097 | 0.755821965 | 461 | 148 | 1451.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 8 | 1437 | 0.766195681 | 504 | 192 | 1875.5 | 174 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 9 | 1789 | 0.773822397 | 684 | 237 | 2311.9 | 230 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 10 | 2108 | 0.791618161 | 836 | 273 | 2662.9 | 276 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 11 | 2110 | 0.795745965 | 835 | 272 | 2651.6 | 275 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 12 | 2134 | 0.805891239 | 823 | 271 | 2648 | 275 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 13 | 2173 | 0.814834258 | 832 | 273 | 2666.8 | 275 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 14 | 2150 | 0.816187078 | 819 | 270 | 2634.2 | 275 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 15 | 2212 | 0.790056433 | 795 | 287 | 2799.8 | 287 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 16 | 2436 | 0.792298185 | 876 | 315 | 3074.6 | 315 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 17 | 2246 | 0.795917644 | 753 | 289 | 2821.9 | 296 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 18 | 1740 | 0.796776262 | 565 | 224 | 2183.8 | 224 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 19 | 1287 | 0.834792761 | 434 | 158 | 1541.7 | 138 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 20 | 1359 | 0.951147816 | 415 | 146 | 1428.8 | 120 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 21 | 1402 | 0.95037961 | 421 | 151 | 1475.2 | 124 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 22 | 1317 | 0.890165596 | 430 | 151 | 1479.5 | 121 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 23 | 1231 | 0.832994993 | 424 | 151 | 1477.8 | 121 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 0 | 1226 | 0.806950569 | 446 | 155 | 1519.3 | 121 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 1 | 1214 | 0.787034036 | 468 | 158 | 1542.5 | 121 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 2 | 1240 | 0.798146241 | 469 | 159 | 1553.6 | 120 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 3 | 1259 | 0.799822121 | 464 | 161 | 1574.1 | 121 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 4 | 1328 | 0.833542556 | 474 | 163 | 1593.2 | 121 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 5 | 1323 | 0.850639748 | 468 | 159 | 1555.3 | 121 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 6 | 2268 | 0.892316166 | 622 | 260 | 2541.7 | 241 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 7 | 2807 | 0.872335136 | 978 | 330 | 3217.8 | 334 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 8 | 2647 | 0.828067322 | 994 | 328 | 3196.6 | 334 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 9 | 2577 | 0.811960426 | 1904 | 325 | 3173.8 | 334 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 10 | 2552 | 0.802389561 | 1036 | 326 | 3180.5 | 335 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 11 | 2483 | 0.78226899 | 882 | 325 | 3174.1 | 334 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 12 | 2543 | 0.796005885 | 936 | 327 | 3194.7 | 338 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 13 | 2726 | 0.792395791 | 1004 | 353 | 3440.2 | 362 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 14 | 2760 | 0.780609215 | 1028 | 362 | 3535.7 | 373 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 15 | 2744 | 0.776874947 | 1027 | 362 | 3532.1 | 372 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 16 | 2605 | 0.781460927 | 973 | 342 | 3333.5 | 352 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 17 | 2405 | 0.780565382 | 927 | 316 | 3081.1 | 326 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 18 | 2414 | 0.803247596 | 877 | 308 | 3005.3 | 313 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 19 | 2099 | 0.776429681 | 873 | 277 | 2703.4 | 285 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 20 | 1107 | 0.754344123 | 475 | 150 | 1467.5 | 127 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 21 | 1073 | 0.745604892 | 434 | 147 | 1439.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 22 | 1064 | 0.743276284 | 402 | 146 | 1431.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 23 | 1058 | 0.738362761 | 382 | 147 | 1432.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 0 | 1049 | 0.739096738 | 380 | 145 | 1419.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 1 | 1129 | 0.739503504 | 377 | 156 | 1526.7 | 131 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 2 | 1109 | 0.734777712 | 365 | 154 | 1509.3 | 130 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 3 | 1047 | 0.741974346 | 365 | 144 | 1411.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 4 | 1038 | 0.747300216 | 359 | 142 | 1389 | 119 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 5 | 1060 | 0.747848173 | 368 | 145 | 1417.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 6 | 1945 | 0.785192362 | 844 | 254 | 2477.1 | 244 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 7 | 2702 | 0.786929171 | 1253 | 352 | 3433.6 | 359 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 8 | 2662 | 0.775121568 | 937 | 352 | 3434.3 | 363 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 9 | 2687 | 0.782834169 | 950 | 352 | 3432.4 | 363 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 10 | 2706 | 0.791482641 | 953 | 350 | 3418.9 | 364 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 11 | 2699 | 0.791379563 | 944 | 349 | 3410.5 | 364 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 12 | 2558 | 0.789286926 | 901 | 332 | 3240.9 | 346 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 13 | 2435 | 0.781902254 | 840 | 319 | 3114.2 | 328 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 14 | 2441 | 0.776152623 | 858 | 322 | 3145 | 331 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 15 | 2470 | 0.768991283 | 860 | 329 | 3212 | 337 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 16 | 2439 | 0.766402715 | 872 | 326 | 3182.4 | 334 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 17 | 2302 | 0.760639704 | 874 | 310 | 3026.4 | 319 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 18 | 2308 | 0.76464352 | 863 | 309 | 3018.4 | 318 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 19 | 2189 | 0.763888889 | 811 | 294 | 2865.6 | 303 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 20 | 1437 | 0.788650458 | 552 | 186 | 1822.1 | 183 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 21 | 1379 | 0.98338444 | 443 | 143 | 1402.3 | 122 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 22 | 1595 | 1.140507687 | 450 | 143 | 1398.5 | 122 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 23 | 1700 | 1.213678875 | 460 | 143 | 1400.7 | 121 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 0 | 1806 | 1.276505513 | 474 | 145 | 1414.8 | 121 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 1 | 1909 | 1.347402597 | 483 | 145 | 1416.8 | 121 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 2 | 1834 | 1.289098194 | 490 | 146 | 1422.7 | 120 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 3 | 1806 | 1.260821 | 505 | 147 | 1432.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 4 | 1886 | 1.320266013 | 521 | 146 | 1428.5 | 120 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 5 | 2015 | 1.384594242 | 538 | 149 | 1455.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 6 | 2073 | 1.451782338 | 522 | 146 | 1427.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 7 | 2105 | 1.440005473 | 535 | 150 | 1461.8 | 126 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 8 | 2332 | 1.497271268 | 534 | 159 | 1557.5 | 145 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 9 | 2322 | 1.570616883 | 456 | 151 | 1478.4 | 138 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 10 | 2421 | 1.580080929 | 462 | 157 | 1532.2 | 145 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 11 | 3994 | 1.457557842 | 770 | 281 | 2740.2 | 284 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 12 | 5060 | 1.482262648 | 1048 | 350 | 3413.7 | 362 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 13 | 5302 | 1.543477628 | 1088 | 352 | 3435.1 | 365 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 14 | 5152 | 1.536626104 | 1015 | 344 | 3352.8 | 354 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 15 | 5174 | 1.541762269 | 1003 | 344 | 3355.9 | 355 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 16 | 5208 | 1.555880859 | 1010 | 343 | 3347.3 | 353 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 17 | 4792 | 1.560048182 | 1124 | 315 | 3071.7 | 325 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 18 | 5318 | 1.604949449 | 1173 | 340 | 3313.5 | 350 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 19 | 4566 | 1.63914417 | 1089 | 285 | 2785.6 | 296 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 20 | 2945 | 1.625365638 | 614 | 185 | 1811.9 | 180 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 21 | 2243 | 1.624067772 | 515 | 141 | 1381.1 | 122 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 22 | 2277 | 1.610780985 | 508 | 145 | 1413.6 | 127 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 23 | 2207 | 1.606142202 | 523 | 141 | 1374.1 | 121 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 0 | 2229 | 1.592825497 | 522 | 143 | 1399.4 | 123 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 1 | 2284 | 1.592747559 | 532 | 147 | 1434 | 123 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 2 | 2335 | 1.60657768 | 536 | 149 | 1453.4 | 120 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 3 | 2297 | 1.616012382 | 520 | 145 | 1421.4 | 120 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 4 | 2281 | 1.620143476 | 518 | 144 | 1407.9 | 120 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 5 | 2302 | 1.614758698 | 521 | 146 | 1425.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 6 | 2303 | 1.613649103 | 520 | 146 | 1427.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 7 | 2372 | 1.596446359 | 521 | 152 | 1485.8 | 124 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 8 | 2847 | 1.60042723 | 540 | 182 | 1778.9 | 169 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 9 | 4546 | 1.618196704 | 868 | 288 | 2809.3 | 291 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 10 | 5332 | 1.623234291 | 1143 | 337 | 3284.8 | 347 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 11 | 5363 | 1.614826413 | 1232 | 340 | 3321.1 | 352 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 12 | 4658 | 1.598764373 | 1002 | 298 | 2913.5 | 310 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 13 | 4467 | 1.595072309 | 1039 | 287 | 2800.5 | 299 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 14 | 4706 | 1.593040181 | 1087 | 303 | 2954.1 | 310 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 15 | 5017 | 1.596855306 | 1102 | 322 | 3141.8 | 332 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 16 | 4765 | 1.593645485 | 1136 | 306 | 2990 | 320 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 17 | 4336 | 1.550786838 | 1006 | 286 | 2796 | 297 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 18 | 5024 | 1.488504385 | 1171 | 346 | 3375.2 | 356 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 19 | 3804 | 1.277796439 | 1149 | 305 | 2977 | 315 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 20 | 1698 | 1.061913696 | 543 | 164 | 1599 | 149 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 21 | 1257 | 0.872613676 | 479 | 147 | 1440.5 | 122 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 22 | 1097 | 0.772317657 | 453 | 145 | 1420.4 | 121 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 23 | 1013 | 0.728776978 | 439 | 142 | 1390 | 120 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 0 | 1012 | 0.719823601 | 440 | 144 | 1405.9 | 120 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 1 | 1020 | 0.717450939 | 446 | 145 | 1421.7 | 121 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 2 | 1018 | 0.71119184 | 450 | 146 | 1431.4 | 121 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 3 | 1026 | 0.712104386 | 456 | 147 | 1440.8 | 121 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 4 | 1140 | 0.714643932 | 433 | 163 | 1595.2 | 138 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 5 | 1300 | 0.719504096 | 404 | 185 | 1806.8 | 162 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 6 | 1548 | 0.790199081 | 509 | 201 | 1959 | 185 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 7 | 2191 | 0.809921632 | 697 | 277 | 2705.2 | 275 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 8 | 2067 | 0.770463695 | 689 | 275 | 2682.8 | 276 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 9 | 1991 | 0.746140009 | 683 | 273 | 2668.4 | 276 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 10 | 2028 | 0.763180672 | 680 | 272 | 2657.3 | 275 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 11 | 1971 | 0.753901469 | 669 | 268 | 2614.4 | 276 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 12 | 1955 | 0.747981788 | 669 | 268 | 2613.7 | 276 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 13 | 1958 | 0.748814441 | 661 | 268 | 2614.8 | 275 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 14 | 1745 | 0.744422166 | 607 | 240 | 2344.1 | 238 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 15 | 1028 | 0.716326388 | 460 | 147 | 1435.1 | 120 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 16 | 1034 | 0.712219314 | 461 | 149 | 1451.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 17 | 1042 | 0.712673552 | 467 | 150 | 1462.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 18 | 1037 | 0.709690665 | 458 | 149 | 1461.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 19 | 1037 | 0.707174032 | 460 | 150 | 1466.4 | 118 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 20 | 1052 | 0.707464694 | 453 | 152 | 1487 | 119 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 21 | 1096 | 0.732375543 | 454 | 153 | 1496.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 22 | 1126 | 0.738748196 | 431 | 156 | 1524.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 23 | 1126 | 0.720824531 | 432 | 160 | 1562.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 0 | 1139 | 0.717435122 | 441 | 162 | 1587.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 1 | 1138 | 0.717121432 | 442 | 162 | 1586.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 2 | 1157 | 0.718722823 | 450 | 165 | 1609.8 | 120 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 3 | 1190 | 0.737252958 | 471 | 165 | 1614.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 4 | 1176 | 0.721738063 | 474 | 167 | 1629.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 5 | 1207 | 0.752869261 | 463 | 164 | 1603.2 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 6 | 2077 | 0.775781571 | 701 | 274 | 2677.3 | 258 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 7 | 2525 | 0.775681986 | 999 | 334 | 3255.2 | 334 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 8 | 2430 | 0.747922438 | 1000 | 333 | 3249 | 335 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 9 | 2410 | 0.747541797 | 1015 | 330 | 3223.9 | 335 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 10 | 2394 | 0.747470963 | 1012 | 328 | 3202.8 | 335 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 11 | 2382 | 0.746170473 | 1008 | 327 | 3192.3 | 335 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 12 | 2388 | 0.746833464 | 1013 | 328 | 3197.5 | 335 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 13 | 2397 | 0.745776423 | 1015 | 329 | 3214.1 | 335 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 14 | 2412 | 0.755804844 | 1030 | 327 | 3191.3 | 335 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 15 | 2164 | 0.75937818 | 954 | 292 | 2849.7 | 297 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 16 | 2030 | 0.754562688 | 882 | 276 | 2690.3 | 278 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 17 | 2022 | 0.75097493 | 880 | 276 | 2692.5 | 279 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 18 | 2466 | 0.7487248 | 1001 | 337 | 3293.6 | 338 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 19 | 2147 | 0.749991267 | 1027 | 293 | 2862.7 | 300 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 20 | 1586 | 0.742578893 | 779 | 219 | 2135.8 | 218 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 21 | 1202 | 0.81524688 | 608 | 151 | 1474.4 | 124 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 22 | 1497 | 0.941924118 | 599 | 163 | 1589.3 | 141 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 23 | 1359 | 0.975662287 | 593 | 142 | 1392.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 0 | 1411 | 1.010383101 | 571 | 143 | 1396.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 1 | 1472 | 1.046569499 | 436 | 144 | 1406.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 2 | 1615 | 1.137804706 | 452 | 145 | 1419.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 3 | 1604 | 1.144161495 | 452 | 143 | 1401.9 | 120 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 4 | 1761 | 1.148727984 | 449 | 157 | 1533 | 134 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 5 | 2170 | 1.147298298 | 493 | 194 | 1891.4 | 179 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 6 | 2377 | 1.195914671 | 481 | 203 | 1987.6 | 199 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 7 | 2365 | 1.282329339 | 492 | 189 | 1844.3 | 172 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 8 | 2012 | 1.356434976 | 528 | 152 | 1483.3 | 123 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 9 | 2032 | 1.394646534 | 498 | 149 | 1457 | 122 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 10 | 1978 | 1.394037635 | 490 | 145 | 1418.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 11 | 1999 | 1.409135768 | 480 | 145 | 1418.6 | 122 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 12 | 2107 | 1.463194444 | 504 | 147 | 1440 | 128 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 13 | 2432 | 1.481301011 | 464 | 168 | 1641.8 | 155 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 14 | 2772 | 1.504151066 | 495 | 189 | 1842.9 | 181 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 15 | 2540 | 1.518957063 | 511 | 171 | 1672.2 | 159 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 16 | 2279 | 1.511975055 | 697 | 154 | 1507.3 | 138 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 17 | 2754 | 1.520958745 | 581 | 185 | 1810.7 | 173 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 18 | 4752 | 1.437777979 | 1160 | 339 | 3305.1 | 344 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 19 | 4819 | 1.457696845 | 1259 | 339 | 3305.9 | 351 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 20 | 4434 | 1.464671489 | 1201 | 310 | 3027.3 | 323 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 21 | 2700 | 1.422325238 | 880 | 194 | 1898.3 | 195 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 22 | 1982 | 1.368028713 | 640 | 148 | 1448.8 | 128 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 23 | 1937 | 1.398959988 | 624 | 142 | 1384.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 0 | 1982 | 1.419567397 | 638 | 143 | 1396.2 | 121 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 1 | 2046 | 1.451166749 | 648 | 144 | 1409.9 | 122 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 2 | 1996 | 1.457359813 | 641 | 140 | 1369.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 3 | 2069 | 1.503415201 | 652 | 141 | 1376.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 4 | 2067 | 1.51617399 | 653 | 139 | 1363.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 5 | 2048 | 1.497732924 | 656 | 140 | 1367.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 6 | 2050 | 1.4856149 | 662 | 141 | 1379.9 | 123 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 7 | 2108 | 1.480961079 | 680 | 146 | 1423.4 | 129 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 8 | 2061 | 1.493478261 | 672 | 141 | 1380 | 123 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 9 | 2032 | 1.524152415 | 647 | 136 | 1333.2 | 124 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 10 | 2052 | 1.503847563 | 655 | 140 | 1364.5 | 125 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 11 | 3180 | 1.544889234 | 876 | 211 | 2058.4 | 209 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 12 | 5275 | 1.602758872 | 1382 | 337 | 3291.2 | 352 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 13 | 5262 | 1.616838224 | 1311 | 333 | 3254.5 | 350 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 14 | 5317 | 1.640441812 | 1303 | 332 | 3241.2 | 349 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 15 | 5442 | 1.652144874 | 1314 | 338 | 3293.9 | 354 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 16 | 4544 | 1.637536488 | 1218 | 284 | 2774.9 | 296 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 17 | 3778 | 1.60998892 | 1107 | 240 | 2346.6 | 251 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 18 | 3082 | 1.626385224 | 739 | 194 | 1895 | 198 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 19 | 2723 | 1.624604737 | 558 | 172 | 1676.1 | 156 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 20 | 2353 | 1.609659324 | 530 | 150 | 1461.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 21 | 2419 | 1.599867725 | 539 | 155 | 1512 | 119 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 22 | 2561 | 1.607355802 | 572 | 163 | 1593.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 23 | 2748 | 1.600559147 | 618 | 176 | 1716.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 0 | 2838 | 1.595906203 | 627 | 182 | 1778.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 1 | 2883 | 1.591938156 | 641 | 185 | 1811 | 119 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 2 | 2921 | 1.589919443 | 657 | 188 | 1837.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 3 | 2866 | 1.574379257 | 653 | 186 | 1820.4 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 4 | 2896 | 1.566590934 | 647 | 189 | 1848.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 5 | 2990 | 1.56922431 | 659 | 195 | 1905.4 | 122 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 6 | 2946 | 1.569609462 | 679 | 192 | 1876.9 | 120 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 7 | 3004 | 1.57203412 | 665 | 196 | 1910.9 | 120 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 8 | 2715 | 1.589578454 | 558 | 175 | 1708 | 132 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 9 | 2588 | 1.593694193 | 553 | 166 | 1623.9 | 146 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 10 | 2444 | 1.598430347 | 501 | 156 | 1529 | 140 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 11 | 3951 | 1.627131208 | 672 | 249 | 2428.2 | 253 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 12 | 5593 | 1.649365969 | 1203 | 347 | 3391 | 363 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 13 | 5580 | 1.640549202 | 1282 | 349 | 3401.3 | 366 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 14 | 5474 | 1.646315789 | 1250 | 341 | 3325 | 359 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 15 | 5498 | 1.65184473 | 1248 | 341 | 3328.4 | 360 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 16 | 5501 | 1.638372647 | 1249 | 344 | 3357.6 | 361 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 17 | 5428 | 1.640523468 | 1220 | 339 | 3308.7 | 359 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 18 | 5394 | 1.63370385 | 1198 | 338 | 3301.7 | 354 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 19 | 5426 | 1.658819933 | 1171 | 335 | 3271 | 351 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 20 | 4698 | 1.649868306 | 1047 | 292 | 2847.5 | 304 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 21 | 3403 | 1.640711634 | 736 | 212 | 2074.1 | 213 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 22 | 2338 | 1.626661101 | 485 | 147 | 1437.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 23 | 2472 | 1.623858635 | 476 | 156 | 1522.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 0 | 2574 | 1.618053809 | 486 | 163 | 1590.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 1 | 2719 | 1.605171498 | 518 | 173 | 1693.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 2 | 2781 | 1.595158885 | 538 | 178 | 1743.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 3 | 2818 | 1.586979783 | 575 | 182 | 1775.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 4 | 2771 | 1.553686571 | 576 | 183 | 1783.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 5 | 2911 | 1.552781778 | 601 | 192 | 1874.7 | 122 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 6 | 2821 | 1.541782806 | 631 | 187 | 1829.7 | 122 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 7 | 2903 | 1.537931765 | 588 | 193 | 1887.6 | 144 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 8 | 3174 | 1.55390189 | 584 | 209 | 2042.6 | 201 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 9 | 5194 | 1.596385542 | 1119 | 333 | 3253.6 | 342 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 10 | 5645 | 1.629148629 | 1337 | 355 | 3465 | 371 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 11 | 5638 | 1.646275586 | 1356 | 351 | 3424.7 | 368 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 12 | 5709 | 1.664382963 | 1327 | 351 | 3430.1 | 368 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 13 | 5724 | 1.686306858 | 1310 | 348 | 3394.4 | 365 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 14 | 5630 | 1.684872063 | 1279 | 342 | 3341.5 | 358 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 15 | 5567 | 1.67812142 | 1270 | 340 | 3317.4 | 358 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 16 | 4725 | 1.646398829 | 1257 | 294 | 2869.9 | 303 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 17 | 4445 | 1.640402997 | 1186 | 278 | 2709.7 | 286 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 18 | 5149 | 1.670505791 | 1223 | 316 | 3082.3 | 329 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 19 | 5551 | 1.670478483 | 1259 | 340 | 3323 | 354 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 20 | 4793 | 1.653328734 | 1214 | 297 | 2899 | 311 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 21 | 4336 | 1.617306975 | 1179 | 275 | 2681 | 283 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 22 | 3667 | 1.615347342 | 839 | 232 | 2270.1 | 240 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 23 | 2392 | 1.558712368 | 604 | 157 | 1534.6 | 131 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 0 | 2391 | 1.556336653 | 568 | 157 | 1536.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 1 | 2452 | 1.549251279 | 561 | 162 | 1582.7 | 118 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 2 | 2571 | 1.545629434 | 567 | 170 | 1663.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 3 | 2623 | 1.557971014 | 572 | 172 | 1683.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 4 | 2693 | 1.569073006 | 583 | 176 | 1716.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 5 | 2774 | 1.577122065 | 601 | 180 | 1758.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 6 | 2761 | 1.567325159 | 609 | 180 | 1761.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 7 | 2844 | 1.56720119 | 566 | 186 | 1814.7 | 142 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 8 | 3015 | 1.563958917 | 551 | 197 | 1927.8 | 184 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 9 | 5038 | 1.610819798 | 972 | 320 | 3127.6 | 330 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 10 | 5762 | 1.62186506 | 1328 | 364 | 3552.7 | 383 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 11 | 5663 | 1.640403221 | 1301 | 354 | 3452.2 | 377 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 12 | 5417 | 1.638783845 | 1213 | 339 | 3305.5 | 361 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 13 | 5365 | 1.62600394 | 1197 | 338 | 3299.5 | 358 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 14 | 5407 | 1.63437415 | 1214 | 339 | 3308.3 | 359 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 15 | 5331 | 1.63127295 | 1205 | 335 | 3268 | 354 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 16 | 5283 | 1.646409873 | 1180 | 329 | 3208.8 | 349 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 17 | 5186 | 1.638650152 | 1161 | 324 | 3164.8 | 342 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 18 | 5290 | 1.648951093 | 1171 | 329 | 3208.1 | 347 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 19 | 4715 | 1.651720031 | 1070 | 292 | 2854.6 | 310 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 20 | 4455 | 1.637145377 | 963 | 279 | 2721.2 | 295 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 21 | 3824 | 1.628689467 | 828 | 240 | 2347.9 | 250 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 22 | 2615 | 1.602917739 | 482 | 167 | 1631.4 | 145 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 23 | 2403 | 1.603068712 | 479 | 153 | 1499 | 120 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 0 | 2396 | 1.603319058 | 485 | 153 | 1494.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 1 | 2409 | 1.590308952 | 501 | 155 | 1514.8 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 2 | 2367 | 1.579158049 | 508 | 153 | 1498.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 3 | 2358 | 1.562520708 | 505 | 154 | 1509.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 4 | 2340 | 1.547823786 | 503 | 155 | 1511.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 5 | 3016 | 1.544844542 | 538 | 200 | 1952.3 | 182 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 6 | 5016 | 1.620678514 | 934 | 317 | 3095 | 323 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 7 | 5588 | 1.643771143 | 1247 | 348 | 3399.5 | 363 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 8 | 5509 | 1.639046741 | 1226 | 344 | 3361.1 | 364 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 9 | 5410 | 1.624819798 | 1198 | 341 | 3329.6 | 363 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 10 | 5373 | 1.614822829 | 1201 | 341 | 3327.3 | 364 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 11 | 5349 | 1.60780306 | 1204 | 341 | 3326.9 | 363 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 12 | 5347 | 1.61049366 | 1158 | 340 | 3320.1 | 363 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 13 | 5266 | 1.593680961 | 1093 | 339 | 3304.3 | 355 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 14 | 4443 | 1.586445762 | 1072 | 287 | 2800.6 | 302 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 15 | 4807 | 1.577099738 | 1027 | 312 | 3048 | 330 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 16 | 4493 | 1.443951665 | 1095 | 319 | 3111.6 | 334 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 17 | 3733 | 1.241477934 | 1013 | 308 | 3006.9 | 322 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 18 | 3297 | 1.025314094 | 1022 | 329 | 3215.6 | 343 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 19 | 2583 | 0.826004925 | 994 | 320 | 3127.1 | 334 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 20 | 2234 | 0.713806435 | 923 | 321 | 3129.7 | 330 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 21 | 1496 | 0.690578406 | 645 | 222 | 2166.3 | 225 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 22 | 980 | 0.663058187 | 379 | 151 | 1478 | 120 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 23 | 984 | 0.672682527 | 383 | 150 | 1462.8 | 122 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 0 | 977 | 0.673607281 | 390 | 148 | 1450.4 | 120 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 1 | 984 | 0.674295895 | 395 | 149 | 1459.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 2 | 1004 | 0.674142214 | 408 | 152 | 1489.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 3 | 1006 | 0.672055582 | 411 | 153 | 1496.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 4 | 992 | 0.668148447 | 405 | 152 | 1484.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 5 | 1332 | 0.672150174 | 434 | 203 | 1981.7 | 182 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 6 | 2154 | 0.680869895 | 974 | 324 | 3163.6 | 326 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 7 | 2156 | 0.685227562 | 950 | 322 | 3146.4 | 333 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 8 | 2133 | 0.679862306 | 934 | 321 | 3137.4 | 334 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 9 | 2137 | 0.688266933 | 903 | 318 | 3104.9 | 334 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 10 | 2125 | 0.683125985 | 902 | 319 | 3110.7 | 333 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 11 | 2146 | 0.687445943 | 874 | 320 | 3121.7 | 333 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 12 | 2153 | 0.68792536 | 857 | 321 | 3129.7 | 334 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 13 | 2072 | 0.69316205 | 813 | 306 | 2989.2 | 316 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 14 | 2033 | 0.70183312 | 898 | 297 | 2896.7 | 306 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 15 | 2007 | 0.694247466 | 858 | 296 | 2890.9 | 309 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 16 | 2051 | 0.692671395 | 861 | 303 | 2961 | 315 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 17 | 2052 | 0.684319349 | 869 | 307 | 2998.6 | 320 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 18 | 2003 | 0.676986514 | 899 | 303 | 2958.7 | 313 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 19 | 1854 | 0.686209194 | 829 | 277 | 2701.8 | 286 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 20 | 1528 | 0.681321621 | 782 | 230 | 2242.7 | 238 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 21 | 959 | 0.656939307 | 407 | 149 | 1459.8 | 126 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 22 | 927 | 0.652036295 | 375 | 145 | 1421.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 23 | 926 | 0.647643027 | 386 | 146 | 1429.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 0 | 932 | 0.644447518 | 394 | 148 | 1446.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 1 | 960 | 0.641325406 | 399 | 153 | 1496.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 2 | 965 | 0.640260085 | 414 | 154 | 1507.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 3 | 965 | 0.639284531 | 415 | 154 | 1509.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 4 | 960 | 0.638510143 | 415 | 154 | 1503.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 5 | 1438 | 0.647106471 | 513 | 228 | 2222.2 | 211 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 6 | 2142 | 0.671073655 | 970 | 327 | 3191.9 | 331 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 7 | 2091 | 0.666008409 | 935 | 322 | 3139.6 | 334 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 8 | 2062 | 0.665225667 | 905 | 318 | 3099.7 | 334 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 9 | 2057 | 0.663783923 | 830 | 317 | 3098.9 | 333 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 10 | 2044 | 0.655212207 | 889 | 320 | 3119.6 | 333 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 11 | 2024 | 0.658511192 | 836 | 315 | 3073.6 | 333 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 12 | 2048 | 0.65877509 | 833 | 319 | 3108.8 | 334 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 13 | 2046 | 0.656168821 | 848 | 319 | 3118.1 | 334 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 14 | 1805 | 0.659770451 | 804 | 280 | 2735.8 | 297 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 15 | 850 | 0.638473672 | 387 | 136 | 1331.3 | 129 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 16 | 812 | 0.634424564 | 336 | 131 | 1279.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 17 | 814 | 0.635490671 | 342 | 131 | 1280.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 18 | 825 | 0.63583815 | 350 | 133 | 1297.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 19 | 854 | 0.639508761 | 364 | 137 | 1335.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 20 | 881 | 0.643958775 | 387 | 140 | 1368.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 21 | 904 | 0.649938888 | 402 | 142 | 1390.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 22 | 939 | 0.650502251 | 410 | 148 | 1443.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 23 | 978 | 0.650698603 | 420 | 154 | 1503 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 0 | 1008 | 0.653908531 | 434 | 158 | 1541.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 1 | 1030 | 0.661996272 | 445 | 159 | 1555.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 2 | 1054 | 0.663226781 | 448 | 163 | 1589.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 3 | 1105 | 0.678705239 | 455 | 167 | 1628.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 4 | 1420 | 0.689286928 | 455 | 211 | 2060.1 | 179 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 5 | 2180 | 0.694555071 | 765 | 322 | 3138.7 | 317 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 6 | 2457 | 0.715075669 | 1099 | 352 | 3436 | 362 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 7 | 2440 | 0.7082523 | 1074 | 353 | 3445.1 | 364 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 8 | 2414 | 0.706157671 | 1063 | 350 | 3418.5 | 364 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 9 | 2366 | 0.70251492 | 1030 | 345 | 3367.9 | 361 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 10 | 1774 | 0.69473272 | 817 | 262 | 2553.5 | 275 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 11 | 1615 | 0.692627697 | 701 | 239 | 2331.7 | 249 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 12 | 2097 | 0.698278446 | 873 | 308 | 3003.1 | 319 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 13 | 2348 | 0.70282567 | 1029 | 342 | 3340.8 | 357 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 14 | 2047 | 0.69973337 | 927 | 300 | 2925.4 | 312 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 15 | 2063 | 0.734738942 | 876 | 288 | 2807.8 | 299 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 16 | 2600 | 0.933438644 | 891 | 285 | 2785.4 | 298 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 17 | 3032 | 1.088064308 | 922 | 285 | 2786.6 | 298 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 18 | 3428 | 1.229026244 | 951 | 286 | 2789.2 | 298 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 19 | 3798 | 1.364616269 | 951 | 285 | 2783.2 | 299 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 20 | 4145 | 1.497741644 | 954 | 283 | 2767.5 | 298 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 21 | 4087 | 1.595985629 | 893 | 262 | 2560.8 | 278 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 22 | 2640 | 1.621721236 | 501 | 167 | 1627.9 | 158 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 23 | 2285 | 1.64034458 | 463 | 142 | 1393 | 119 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 0 | 2285 | 1.646135005 | 456 | 142 | 1388.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 1 | 2319 | 1.680678359 | 463 | 141 | 1379.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 2 | 2375 | 1.716412517 | 474 | 142 | 1383.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 3 | 2411 | 1.717358786 | 480 | 144 | 1403.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 4 | 2392 | 1.71518715 | 485 | 143 | 1394.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 5 | 2505 | 1.724731479 | 505 | 149 | 1452.4 | 123 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 6 | 2453 | 1.723217422 | 495 | 146 | 1423.5 | 125 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 7 | 2644 | 1.729461015 | 481 | 156 | 1528.8 | 138 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 8 | 3587 | 1.747369447 | 541 | 210 | 2052.8 | 210 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 9 | 5394 | 1.687048447 | 1042 | 328 | 3197.3 | 342 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 10 | 5803 | 1.735658312 | 1106 | 343 | 3343.4 | 361 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 11 | 6000 | 1.762632197 | 1143 | 349 | 3404 | 371 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 12 | 5314 | 1.752349547 | 1028 | 311 | 3032.5 | 332 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 13 | 5937 | 1.763238395 | 1117 | 345 | 3367.1 | 364 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 14 | 6097 | 1.796193731 | 1147 | 348 | 3394.4 | 371 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 15 | 6100 | 1.800100333 | 1165 | 347 | 3388.7 | 367 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 16 | 5533 | 1.779442979 | 1088 | 319 | 3109.4 | 338 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 17 | 4921 | 1.765951339 | 969 | 285 | 2786.6 | 304 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 18 | 5374 | 1.758968316 | 1038 | 313 | 3055.2 | 330 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 19 | 5191 | 1.688899011 | 1094 | 315 | 3073.6 | 332 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 20 | 4551 | 1.594380605 | 1019 | 292 | 2854.4 | 309 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 21 | 4305 | 1.544062265 | 995 | 286 | 2788.1 | 303 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 22 | 4162 | 1.539599748 | 913 | 277 | 2703.3 | 293 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 23 | 3057 | 1.548867609 | 637 | 202 | 1973.7 | 207 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 0 | 2177 | 1.571727673 | 508 | 142 | 1385.1 | 121 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 1 | 2172 | 1.566873467 | 493 | 142 | 1386.2 | 120 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 2 | 2159 | 1.565627266 | 479 | 141 | 1379 | 120 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 3 | 2184 | 1.579632576 | 470 | 141 | 1382.6 | 120 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 4 | 2216 | 1.610114074 | 477 | 141 | 1376.3 | 120 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 5 | 2264 | 1.634893125 | 486 | 142 | 1384.8 | 121 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 6 | 2318 | 1.653824201 | 496 | 143 | 1401.6 | 121 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 7 | 2569 | 1.664506933 | 497 | 158 | 1543.4 | 142 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 8 | 3887 | 1.691029322 | 680 | 235 | 2298.6 | 238 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 9 | 5408 | 1.678096006 | 1153 | 330 | 3222.7 | 344 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 10 | 5750 | 1.679175306 | 1205 | 351 | 3424.3 | 370 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 11 | 5706 | 1.653385877 | 1176 | 354 | 3451.1 | 373 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 12 | 5630 | 1.628249993 | 1196 | 354 | 3457.7 | 375 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 13 | 5564 | 1.609394886 | 1244 | 354 | 3457.2 | 373 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 14 | 5583 | 1.614517062 | 1224 | 354 | 3458 | 374 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 15 | 5530 | 1.603270324 | 1272 | 353 | 3449.2 | 374 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 16 | 5461 | 1.572234698 | 1271 | 356 | 3473.4 | 374 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 17 | 5380 | 1.557028333 | 1247 | 354 | 3455.3 | 373 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 18 | 4299 | 1.525983246 | 1104 | 289 | 2817.2 | 304 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 19 | 4009 | 1.516951718 | 1014 | 271 | 2642.8 | 285 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 20 | 4548 | 1.528688111 | 1032 | 305 | 2975.1 | 318 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 21 | 4083 | 1.542151382 | 812 | 271 | 2647.6 | 287 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 22 | 3160 | 1.51022749 | 690 | 214 | 2092.4 | 218 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 23 | 2098 | 1.47954866 | 517 | 145 | 1418 | 124 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 0 | 2122 | 1.478333566 | 511 | 147 | 1435.4 | 124 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 1 | 2072 | 1.480634558 | 516 | 143 | 1399.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 2 | 2059 | 1.465793408 | 525 | 144 | 1404.7 | 120 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 3 | 2065 | 1.464435146 | 568 | 144 | 1410.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 4 | 2044 | 1.424390244 | 569 | 147 | 1435 | 120 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 5 | 2048 | 1.417987953 | 570 | 148 | 1444.3 | 120 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 6 | 1999 | 1.406656815 | 555 | 145 | 1421.1 | 120 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 7 | 2123 | 1.415899693 | 557 | 153 | 1499.4 | 133 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 8 | 2930 | 1.429756502 | 600 | 210 | 2049.3 | 204 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 9 | 4992 | 1.486510631 | 1198 | 344 | 3358.2 | 354 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 10 | 4986 | 1.500045128 | 1226 | 341 | 3323.9 | 357 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 11 | 5248 | 1.511433673 | 1229 | 356 | 3472.2 | 373 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 12 | 5243 | 1.520459357 | 1227 | 353 | 3448.3 | 370 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 13 | 5237 | 1.527668388 | 1189 | 351 | 3428.1 | 368 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 14 | 4965 | 1.539343957 | 1154 | 330 | 3225.4 | 345 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 15 | 5128 | 1.591607437 | 1163 | 330 | 3221.9 | 345 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 16 | 5129 | 1.641963057 | 1224 | 320 | 3123.7 | 336 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 17 | 4430 | 1.66104237 | 1061 | 273 | 2667 | 289 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 18 | 5520 | 1.700554529 | 1197 | 333 | 3246 | 347 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 19 | 4433 | 1.713369149 | 1053 | 265 | 2587.3 | 281 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 20 | 4071 | 1.743394287 | 758 | 239 | 2335.1 | 254 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 21 | 4138 | 1.739020803 | 742 | 244 | 2379.5 | 259 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 22 | 3025 | 1.711941143 | 622 | 181 | 1767 | 176 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 23 | 2314 | 1.684869667 | 477 | 140 | 1373.4 | 120 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 0 | 2345 | 1.679558802 | 481 | 143 | 1396.2 | 120 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 1 | 2376 | 1.689059501 | 489 | 144 | 1406.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 2 | 2433 | 1.707368421 | 494 | 146 | 1425 | 120 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 3 | 2467 | 1.728559417 | 496 | 146 | 1427.2 | 120 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 4 | 2554 | 1.725209403 | 503 | 151 | 1480.4 | 126 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 5 | 3280 | 1.750360211 | 532 | 192 | 1873.9 | 180 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 6 | 2838 | 1.762185657 | 581 | 165 | 1610.5 | 155 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 7 | 3430 | 1.742886179 | 568 | 201 | 1968 | 194 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 8 | 5356 | 1.745705811 | 981 | 314 | 3068.1 | 326 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 9 | 6111 | 1.739241803 | 1279 | 360 | 3513.6 | 375 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 10 | 6118 | 1.76626826 | 1243 | 355 | 3463.8 | 373 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 11 | 5929 | 1.785897166 | 1178 | 340 | 3319.9 | 360 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 12 | 5991 | 1.807839705 | 1166 | 340 | 3313.9 | 359 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 13 | 6091 | 1.836740848 | 1173 | 340 | 3316.2 | 358 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 14 | 6269 | 1.88507337 | 1197 | 341 | 3325.6 | 359 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 15 | 6190 | 1.910611766 | 1195 | 332 | 3239.8 | 350 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 16 | 6270 | 1.940455558 | 1192 | 331 | 3231.2 | 349 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 17 | 6351 | 1.9614565 | 1214 | 332 | 3237.9 | 349 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 18 | 6470 | 1.990156875 | 1225 | 333 | 3251 | 349 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 19 | 6552 | 2.017676223 | 1208 | 333 | 3247.3 | 349 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 20 | 6427 | 1.980341406 | 1204 | 333 | 3245.4 | 349 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 21 | 5373 | 1.850652706 | 1094 | 297 | 2903.3 | 312 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 22 | 3930 | 1.750478821 | 752 | 230 | 2245.1 | 236 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 23 | 2369 | 1.702112372 | 496 | 142 | 1391.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 0 | 2346 | 1.676792224 | 465 | 143 | 1399.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 1 | 2326 | 1.651050539 | 463 | 144 | 1408.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 2 | 2303 | 1.63067337 | 464 | 144 | 1412.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 3 | 2285 | 1.603959006 | 471 | 146 | 1424.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 4 | 2255 | 1.570553002 | 473 | 147 | 1435.8 | 123 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 5 | 2470 | 1.55963882 | 478 | 162 | 1583.7 | 139 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 6 | 2414 | 1.538265469 | 503 | 161 | 1569.3 | 140 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 7 | 2261 | 1.542291951 | 482 | 150 | 1466 | 126 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 8 | 2326 | 1.546953977 | 470 | 154 | 1503.6 | 134 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 9 | 2698 | 1.57134537 | 473 | 176 | 1717 | 163 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 10 | 2477 | 1.60802389 | 486 | 158 | 1540.4 | 143 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 11 | 4974 | 1.683248731 | 877 | 303 | 2955 | 312 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 12 | 5877 | 1.694978802 | 1192 | 355 | 3467.3 | 372 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 13 | 5860 | 1.69178359 | 1181 | 355 | 3463.8 | 374 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 14 | 5861 | 1.682406637 | 1187 | 357 | 3483.7 | 374 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 15 | 5259 | 1.655491548 | 1140 | 325 | 3176.7 | 343 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 16 | 5101 | 1.645271578 | 1023 | 318 | 3100.4 | 335 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 17 | 5511 | 1.66626353 | 1167 | 339 | 3307.4 | 360 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 18 | 5653 | 1.676850973 | 1190 | 345 | 3371.2 | 362 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 19 | 5559 | 1.669519777 | 1178 | 341 | 3329.7 | 356 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 20 | 4832 | 1.635415962 | 1108 | 303 | 2954.6 | 319 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 21 | 3415 | 1.563358359 | 766 | 224 | 2184.4 | 228 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 22 | 2196 | 1.495709031 | 481 | 150 | 1468.2 | 121 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 23 | 2222 | 1.454664484 | 491 | 156 | 1527.5 | 120 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 0 | 2323 | 1.419839863 | 513 | 167 | 1636.1 | 120 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 1 | 2375 | 1.412009512 | 531 | 172 | 1682 | 120 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 2 | 2432 | 1.405455386 | 567 | 177 | 1730.4 | 120 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 3 | 2502 | 1.400033574 | 605 | 183 | 1787.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 4 | 2556 | 1.406482144 | 617 | 186 | 1817.3 | 120 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 5 | 2768 | 1.40357994 | 635 | 202 | 1972.1 | 130 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 6 | 2669 | 1.403924044 | 646 | 195 | 1901.1 | 120 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 7 | 2752 | 1.422369237 | 652 | 198 | 1934.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 8 | 2479 | 1.411972433 | 600 | 180 | 1755.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 9 | 2329 | 1.398630795 | 577 | 170 | 1665.2 | 120 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 10 | 2138 | 1.396472894 | 531 | 157 | 1531 | 120 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 11 | 1994 | 1.400969578 | 489 | 146 | 1423.3 | 121 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 12 | 1974 | 1.404082794 | 476 | 144 | 1405.9 | 121 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 13 | 2040 | 1.425178147 | 483 | 146 | 1431.4 | 123 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 14 | 2174 | 1.421937341 | 469 | 156 | 1528.9 | 138 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 15 | 2104 | 1.456256921 | 504 | 148 | 1444.8 | 127 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 16 | 2233 | 1.480278422 | 523 | 154 | 1508.5 | 127 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 17 | 2284 | 1.514588859 | 512 | 154 | 1508 | 128 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 18 | 3412 | 1.557990868 | 556 | 224 | 2190 | 207 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 19 | 3492 | 1.583529839 | 582 | 226 | 2205.2 | 196 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 20 | 3260 | 1.564900154 | 670 | 213 | 2083.2 | 149 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 21 | 3056 | 1.561813257 | 747 | 200 | 1956.7 | 121 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 22 | 3118 | 1.536036258 | 726 | 208 | 2029.9 | 121 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 23 | 3114 | 1.502388189 | 706 | 212 | 2072.7 | 122 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 0 | 2970 | 1.47299509 | 691 | 206 | 2016.3 | 120 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 1 | 2800 | 1.419878296 | 684 | 202 | 1972 | 119 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 2 | 2595 | 1.348892816 | 698 | 197 | 1923.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 3 | 2457 | 1.253955292 | 728 | 201 | 1959.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 4 | 2367 | 1.208516287 | 738 | 201 | 1958.6 | 121 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 5 | 2413 | 1.162779491 | 753 | 212 | 2075.2 | 128 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 6 | 2215 | 1.097512635 | 791 | 207 | 2018.2 | 126 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 7 | 2083 | 1.074486743 | 730 | 198 | 1938.6 | 122 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 8 | 1852 | 1.072131527 | 613 | 177 | 1727.4 | 127 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 9 | 1692 | 1.074899943 | 543 | 161 | 1574.1 | 132 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 10 | 1707 | 1.07297756 | 512 | 163 | 1590.9 | 146 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 11 | 3577 | 1.233320691 | 838 | 297 | 2900.3 | 308 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 12 | 4375 | 1.325396104 | 1204 | 338 | 3300.9 | 359 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 13 | 4441 | 1.326265492 | 1192 | 343 | 3348.5 | 365 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 14 | 4453 | 1.328976035 | 1229 | 343 | 3350.7 | 365 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 15 | 4425 | 1.336817619 | 1194 | 339 | 3310.1 | 359 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 16 | 4492 | 1.356525941 | 1165 | 339 | 3311.4 | 359 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 17 | 4589 | 1.391196265 | 1062 | 338 | 3298.6 | 358 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 18 | 4403 | 1.408058842 | 991 | 320 | 3127 | 339 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 19 | 4162 | 1.371018217 | 944 | 311 | 3035.7 | 329 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 20 | 3908 | 1.29640073 | 937 | 309 | 3014.5 | 325 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 21 | 2565 | 1.222651223 | 618 | 215 | 2097.9 | 226 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 22 | 1946 | 1.169541439 | 592 | 170 | 1663.9 | 162 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 23 | 1582 | 1.125978648 | 607 | 144 | 1405 | 118 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 0 | 1590 | 1.096400496 | 604 | 148 | 1450.2 | 118 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 1 | 1603 | 1.077284946 | 596 | 152 | 1488 | 119 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 2 | 1552 | 1.075388027 | 578 | 148 | 1443.2 | 118 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 3 | 1663 | 1.080852723 | 610 | 157 | 1538.6 | 118 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 4 | 1776 | 1.088635528 | 660 | 167 | 1631.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 5 | 1786 | 1.095772747 | 653 | 167 | 1629.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 6 | 1686 | 1.101888765 | 622 | 157 | 1530.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 7 | 1502 | 1.099480272 | 560 | 140 | 1366.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 8 | 1463 | 1.106489185 | 542 | 135 | 1322.2 | 121 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 9 | 1461 | 1.113567073 | 549 | 134 | 1312 | 124 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 10 | 1751 | 1.115855213 | 566 | 161 | 1569.2 | 153 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 11 | 2591 | 1.145142756 | 685 | 232 | 2262.6 | 238 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 12 | 3803 | 1.189032016 | 997 | 328 | 3198.4 | 346 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 13 | 3980 | 1.216604512 | 1046 | 335 | 3271.4 | 353 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 14 | 3939 | 1.238796113 | 1011 | 326 | 3179.7 | 344 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 15 | 3934 | 1.25214845 | 983 | 322 | 3141.8 | 339 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 16 | 3941 | 1.254975639 | 989 | 322 | 3140.3 | 338 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 17 | 3908 | 1.261296153 | 985 | 317 | 3098.4 | 336 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 18 | 3267 | 1.259687681 | 907 | 266 | 2593.5 | 283 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 19 | 2107 | 1.289473684 | 629 | 167 | 1634 | 163 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 20 | 1788 | 1.316351322 | 487 | 139 | 1358.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 21 | 1965 | 1.320298327 | 480 | 152 | 1488.3 | 137 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 22 | 1821 | 1.350790001 | 485 | 138 | 1348.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 23 | 1925 | 1.380324107 | 514 | 143 | 1394.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 0 | 1958 | 1.376546682 | 520 | 145 | 1422.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 1 | 2052 | 1.383495146 | 536 | 152 | 1483.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 2 | 2026 | 1.374584436 | 530 | 151 | 1473.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 3 | 1981 | 1.363573789 | 527 | 149 | 1452.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 4 | 2036 | 1.347898047 | 543 | 155 | 1510.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 5 | 2253 | 1.33701264 | 596 | 172 | 1685.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 6 | 2156 | 1.341797361 | 568 | 164 | 1606.8 | 121 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 7 | 1925 | 1.356111307 | 495 | 145 | 1419.5 | 126 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 8 | 1959 | 1.356366406 | 478 | 148 | 1444.3 | 137 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 9 | 2201 | 1.354628262 | 487 | 166 | 1624.8 | 156 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 10 | 2090 | 1.333163233 | 509 | 160 | 1567.7 | 152 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 11 | 2766 | 1.317770367 | 520 | 215 | 2099 | 219 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 12 | 4077 | 1.300271089 | 1009 | 321 | 3135.5 | 336 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 13 | 4231 | 1.288446312 | 1086 | 336 | 3283.8 | 355 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 14 | 4321 | 1.302055083 | 1071 | 340 | 3318.6 | 359 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 15 | 4150 | 1.313706869 | 998 | 324 | 3159 | 341 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 16 | 4093 | 1.343332568 | 981 | 312 | 3046.9 | 330 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 17 | 3380 | 1.363673041 | 815 | 254 | 2478.6 | 271 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 18 | 2787 | 1.362036947 | 603 | 209 | 2046.2 | 216 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 19 | 2370 | 1.380073371 | 518 | 176 | 1717.3 | 170 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 20 | 1878 | 1.370602832 | 530 | 140 | 1370.2 | 121 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 21 | 1953 | 1.359838463 | 610 | 147 | 1436.2 | 123 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 22 | 1917 | 1.378541637 | 581 | 142 | 1390.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 23 | 2025 | 1.435762904 | 605 | 144 | 1410.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 0 | 2117 | 1.516584283 | 614 | 143 | 1395.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 1 | 2222 | 1.60839667 | 618 | 141 | 1381.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 2 | 2449 | 1.677971908 | 661 | 149 | 1459.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 3 | 2601 | 1.719555732 | 701 | 155 | 1512.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 4 | 3053 | 1.73584262 | 833 | 180 | 1758.8 | 119 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 5 | 3194 | 1.755427315 | 855 | 186 | 1819.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 6 | 3098 | 1.766248575 | 806 | 180 | 1754 | 119 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 7 | 2841 | 1.786680083 | 729 | 163 | 1590.1 | 121 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 8 | 2899 | 1.794268738 | 659 | 165 | 1615.7 | 148 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 9 | 2531 | 1.808244624 | 655 | 143 | 1399.7 | 132 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 10 | 2739 | 1.779149074 | 688 | 157 | 1539.5 | 147 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 11 | 4083 | 1.779240021 | 876 | 235 | 2294.8 | 245 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 12 | 5351 | 1.640857379 | 1072 | 334 | 3261.1 | 352 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 13 | 5052 | 1.589428976 | 1096 | 326 | 3178.5 | 347 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 14 | 4556 | 1.570330541 | 1053 | 297 | 2901.3 | 317 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 15 | 4986 | 1.591496696 | 1058 | 321 | 3132.9 | 340 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 16 | 4710 | 1.612682326 | 1045 | 299 | 2920.6 | 318 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 17 | 5215 | 1.649585627 | 1160 | 324 | 3161.4 | 344 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 18 | 5369 | 1.686349645 | 1197 | 326 | 3183.8 | 347 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 19 | 4808 | 1.6994804 | 1168 | 290 | 2829.1 | 308 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 20 | 2448 | 1.665532726 | 749 | 150 | 1469.8 | 138 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 21 | 2280 | 1.675238795 | 691 | 139 | 1361 | 121 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 22 | 2371 | 1.666901012 | 715 | 145 | 1422.4 | 120 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 23 | 2540 | 1.652247447 | 787 | 157 | 1537.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 0 | 2641 | 1.64538035 | 839 | 164 | 1605.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 1 | 2666 | 1.628688374 | 890 | 167 | 1636.9 | 120 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 2 | 2817 | 1.648525281 | 929 | 175 | 1708.8 | 118 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 3 | 2907 | 1.643022664 | 999 | 181 | 1769.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 4 | 2932 | 1.605783449 | 989 | 187 | 1825.9 | 120 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 5 | 2997 | 1.606195402 | 1039 | 191 | 1865.9 | 118 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 6 | 3010 | 1.579969555 | 1045 | 195 | 1905.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 7 | 2851 | 1.557327798 | 988 | 187 | 1830.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 8 | 2479 | 1.553452814 | 876 | 163 | 1595.8 | 120 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 9 | 2248 | 1.556032394 | 774 | 148 | 1444.7 | 127 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 10 | 2379 | 1.545005845 | 796 | 158 | 1539.8 | 142 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 11 | 2867 | 1.613938302 | 934 | 182 | 1776.4 | 177 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 12 | 5378 | 1.713393654 | 1330 | 322 | 3138.8 | 336 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 13 | 5464 | 1.775813319 | 1280 | 315 | 3076.9 | 336 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 14 | 6248 | 1.826046294 | 1348 | 351 | 3421.6 | 369 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 15 | 6403 | 1.880193804 | 1321 | 349 | 3405.5 | 370 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 16 | 6513 | 1.925271217 | 1282 | 347 | 3382.9 | 367 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 17 | 6486 | 1.931046802 | 1246 | 344 | 3358.8 | 364 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 18 | 6445 | 1.908837815 | 1232 | 346 | 3376.4 | 364 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 19 | 5190 | 1.866772175 | 1059 | 285 | 2780.2 | 301 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 20 | 4899 | 1.859203036 | 953 | 270 | 2635 | 283 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 21 | 4319 | 1.84061368 | 896 | 240 | 2346.5 | 248 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 22 | 2960 | 1.783454841 | 710 | 170 | 1659.7 | 127 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 23 | 3296 | 1.841546542 | 735 | 183 | 1789.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 0 | 3510 | 1.890552623 | 757 | 190 | 1856.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 1 | 3684 | 1.914362918 | 796 | 197 | 1924.4 | 120 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 2 | 3680 | 1.901022833 | 797 | 198 | 1935.8 | 120 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 3 | 3688 | 1.888376856 | 789 | 200 | 1953 | 121 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 4 | 3721 | 1.862828536 | 787 | 204 | 1997.5 | 125 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 5 | 4303 | 1.854501573 | 740 | 238 | 2320.3 | 159 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 6 | 3533 | 1.782093317 | 800 | 203 | 1982.5 | 127 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 7 | 3418 | 1.763128031 | 785 | 198 | 1938.6 | 120 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 8 | 3202 | 1.754616691 | 755 | 187 | 1824.9 | 121 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 9 | 2872 | 1.74812831 | 662 | 168 | 1642.9 | 120 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 10 | 2521 | 1.750816029 | 596 | 147 | 1439.9 | 120 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 11 | 2568 | 1.757579906 | 606 | 149 | 1461.1 | 123 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 12 | 2522 | 1.757368824 | 615 | 147 | 1435.1 | 122 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 13 | 2619 | 1.74112485 | 628 | 154 | 1504.2 | 132 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 14 | 3563 | 1.772460452 | 782 | 206 | 2010.2 | 200 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 15 | 5338 | 1.85476025 | 1171 | 295 | 2878 | 302 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 16 | 6020 | 1.840190744 | 1256 | 335 | 3271.4 | 347 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 17 | 4270 | 1.809015421 | 1111 | 242 | 2360.4 | 250 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 18 | 4105 | 1.739333079 | 899 | 242 | 2360.1 | 229 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 19 | 4465 | 1.734182623 | 826 | 264 | 2574.7 | 244 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 20 | 3039 | 1.699569375 | 717 | 183 | 1788.1 | 122 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 21 | 3133 | 1.710432931 | 694 | 187 | 1831.7 | 120 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 22 | 3133 | 1.741523068 | 678 | 184 | 1799 | 119 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 23 | 3324 | 1.790658837 | 705 | 190 | 1856.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 0 | 3388 | 1.833035763 | 704 | 189 | 1848.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 1 | 3462 | 1.885929073 | 706 | 188 | 1835.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 2 | 3513 | 1.909446679 | 719 | 188 | 1839.8 | 119 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 3 | 3581 | 1.937036837 | 722 | 189 | 1848.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 4 | 3689 | 1.970093458 | 730 | 192 | 1872.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 5 | 3826 | 1.978078792 | 760 | 198 | 1934.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 6 | 3805 | 2.010886798 | 751 | 194 | 1892.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 7 | 3626 | 2.040288094 | 702 | 182 | 1777.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 8 | 3376 | 1.955514365 | 842 | 177 | 1726.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 9 | 2601 | 1.878520872 | 722 | 142 | 1384.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 10 | 2458 | 1.863674274 | 641 | 135 | 1318.9 | 122 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 11 | 3079 | 1.852587244 | 741 | 170 | 1662 | 162 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 12 | 4714 | 1.905031319 | 1163 | 253 | 2474.5 | 264 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 13 | 6664 | 1.981151708 | 1483 | 345 | 3363.7 | 364 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 14 | 7278 | 2.042144841 | 1464 | 365 | 3563.9 | 387 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 15 | 7475 | 2.06514532 | 1469 | 371 | 3619.6 | 390 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 16 | 7561 | 2.114728422 | 1490 | 366 | 3575.4 | 385 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 17 | 7545 | 2.143953171 | 1467 | 361 | 3519.2 | 380 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 18 | 7610 | 2.140165364 | 1450 | 364 | 3555.8 | 380 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 19 | 7680 | 2.165271082 | 1443 | 363 | 3546.9 | 381 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 20 | 7571 | 2.127821028 | 1430 | 365 | 3558.1 | 381 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 21 | 7338 | 2.079578303 | 1386 | 362 | 3528.6 | 381 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 22 | 5307 | 1.954480168 | 1099 | 278 | 2715.3 | 294 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 23 | 2466 | 1.740296401 | 566 | 145 | 1417 | 126 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 0 | 2123 | 1.501626821 | 490 | 145 | 1413.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 1 | 1840 | 1.26122421 | 482 | 149 | 1458.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 2 | 1629 | 1.081816974 | 481 | 154 | 1505.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 3 | 1482 | 0.954527889 | 478 | 159 | 1552.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 4 | 1366 | 0.877271852 | 468 | 159 | 1557.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 5 | 1369 | 0.828692494 | 490 | 169 | 1652 | 119 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 6 | 1302 | 0.786231884 | 483 | 169 | 1656 | 119 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 7 | 1203 | 0.758368531 | 469 | 162 | 1586.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 8 | 1001 | 0.740275107 | 396 | 138 | 1352.2 | 121 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 9 | 1452 | 0.788873194 | 450 | 188 | 1840.6 | 184 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 10 | 3021 | 1.124511446 | 878 | 275 | 2686.5 | 284 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 11 | 4176 | 1.279529369 | 1214 | 334 | 3263.7 | 337 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 12 | 4931 | 1.20444553 | 1473 | 420 | 4094 | 379 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 13 | 4359 | 1.168444754 | 1298 | 382 | 3730.6 | 372 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 14 | 3718 | 1.109950145 | 1159 | 343 | 3349.7 | 359 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 15 | 3678 | 1.098369468 | 1151 | 343 | 3348.6 | 359 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 16 | 3831 | 1.146010949 | 1166 | 343 | 3342.9 | 356 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 17 | 3979 | 1.203569268 | 1183 | 339 | 3306 | 352 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 18 | 4205 | 1.266871535 | 1208 | 340 | 3319.2 | 354 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 19 | 4469 | 1.339628297 | 1217 | 342 | 3336 | 354 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 20 | 4753 | 1.42831385 | 1231 | 341 | 3327.7 | 354 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 21 | 3911 | 1.460963765 | 1003 | 274 | 2677 | 290 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 22 | 2070 | 1.547085202 | 524 | 137 | 1338 | 125 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 23 | 1997 | 1.515404462 | 471 | 135 | 1317.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 0 | 1979 | 1.514618093 | 471 | 134 | 1306.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 1 | 2062 | 1.493986379 | 488 | 141 | 1380.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 2 | 1985 | 1.510079878 | 465 | 134 | 1314.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 3 | 1947 | 1.496771218 | 454 | 133 | 1300.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 4 | 1958 | 1.514307811 | 452 | 132 | 1293 | 119 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 5 | 2380 | 1.524175472 | 485 | 160 | 1561.5 | 152 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 6 | 2614 | 1.539639534 | 536 | 174 | 1697.8 | 177 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 7 | 2008 | 1.505811774 | 500 | 136 | 1333.5 | 124 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 8 | 2699 | 1.525720746 | 523 | 181 | 1769 | 180 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 9 | 4247 | 1.500600664 | 823 | 290 | 2830.2 | 301 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 10 | 5230 | 1.492281793 | 1247 | 359 | 3504.7 | 376 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 11 | 5300 | 1.509240539 | 1253 | 360 | 3511.7 | 380 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 12 | 5141 | 1.531153205 | 1191 | 344 | 3357.6 | 359 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 13 | 5361 | 1.556846232 | 1229 | 353 | 3443.5 | 370 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 14 | 5352 | 1.561032522 | 1230 | 351 | 3428.5 | 367 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 15 | 5343 | 1.574944731 | 1207 | 348 | 3392.5 | 364 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 16 | 5316 | 1.574131651 | 1148 | 346 | 3377.1 | 362 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 17 | 5066 | 1.593332285 | 1071 | 326 | 3179.5 | 341 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 18 | 5112 | 1.608660079 | 1118 | 326 | 3177.8 | 340 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 19 | 5036 | 1.62033462 | 1087 | 318 | 3108 | 334 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 20 | 4931 | 1.636357603 | 1033 | 309 | 3013.4 | 322 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 21 | 4396 | 1.627244124 | 967 | 277 | 2701.5 | 289 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 22 | 2756 | 1.605125218 | 657 | 176 | 1717 | 175 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 23 | 2087 | 1.577237001 | 471 | 135 | 1323.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 0 | 2069 | 1.575540664 | 449 | 134 | 1313.2 | 120 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 1 | 2089 | 1.57387177 | 442 | 136 | 1327.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 2 | 2110 | 1.572514533 | 433 | 137 | 1341.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 3 | 2109 | 1.561297009 | 440 | 138 | 1350.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 4 | 2136 | 1.572901325 | 453 | 139 | 1358 | 119 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 5 | 2382 | 1.583250249 | 484 | 154 | 1504.5 | 131 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 6 | 2247 | 1.580391054 | 472 | 145 | 1421.8 | 122 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 7 | 2492 | 1.58524173 | 429 | 161 | 1572 | 145 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 8 | 3606 | 1.591420628 | 561 | 232 | 2265.9 | 236 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 9 | 4365 | 1.61493211 | 827 | 277 | 2702.9 | 288 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 10 | 4312 | 1.624901082 | 825 | 272 | 2653.7 | 285 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 11 | 4685 | 1.611294538 | 959 | 298 | 2907.6 | 310 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 12 | 5509 | 1.618104917 | 1195 | 349 | 3404.6 | 362 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 13 | 5041 | 1.601029029 | 1161 | 323 | 3148.6 | 336 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 14 | 5583 | 1.587432471 | 1206 | 360 | 3517 | 373 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 15 | 5338 | 1.560590557 | 1231 | 350 | 3420.5 | 362 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 16 | 4311 | 1.551277438 | 956 | 285 | 2779 | 298 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 17 | 4430 | 1.579435254 | 956 | 287 | 2804.8 | 299 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 18 | 5648 | 1.624996404 | 1195 | 356 | 3475.7 | 368 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 19 | 5654 | 1.628503125 | 1256 | 356 | 3471.9 | 369 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 20 | 5256 | 1.628051047 | 1194 | 331 | 3228.4 | 344 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 21 | 4169 | 1.607790204 | 905 | 266 | 2593 | 279 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 22 | 2303 | 1.561355932 | 482 | 151 | 1475 | 141 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 23 | 2029 | 1.539336924 | 446 | 135 | 1318.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 0 | 2034 | 1.560174887 | 439 | 133 | 1303.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 1 | 2038 | 1.565524658 | 441 | 133 | 1301.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 2 | 2072 | 1.554621849 | 451 | 136 | 1332.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 3 | 2095 | 1.539083162 | 458 | 139 | 1361.2 | 120 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 4 | 2155 | 1.516217547 | 464 | 145 | 1421.3 | 120 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 5 | 2274 | 1.484915763 | 508 | 157 | 1531.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 6 | 2245 | 1.447733282 | 525 | 159 | 1550.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 7 | 2367 | 1.404831147 | 574 | 172 | 1684.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 8 | 2474 | 1.397424311 | 524 | 181 | 1770.4 | 151 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 9 | 2745 | 1.398013751 | 606 | 201 | 1963.5 | 184 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 10 | 2036 | 1.378749915 | 518 | 151 | 1476.7 | 128 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 11 | 2077 | 1.370957096 | 515 | 155 | 1515 | 136 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 12 | 3950 | 1.442079515 | 819 | 281 | 2739.1 | 283 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 13 | 5562 | 1.542942743 | 1304 | 369 | 3604.8 | 382 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 14 | 5561 | 1.581806804 | 1293 | 360 | 3515.6 | 374 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 15 | 5542 | 1.584198039 | 1280 | 358 | 3498.3 | 372 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 16 | 5253 | 1.577524851 | 1232 | 341 | 3329.9 | 354 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 17 | 4971 | 1.562519645 | 1158 | 326 | 3181.4 | 340 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 18 | 5161 | 1.566217529 | 1159 | 338 | 3295.2 | 350 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 19 | 5079 | 1.563346466 | 1163 | 333 | 3248.8 | 344 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 20 | 4238 | 1.599064257 | 877 | 271 | 2650.3 | 281 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 21 | 3353 | 1.639849367 | 635 | 209 | 2044.7 | 208 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 22 | 2583 | 1.665377176 | 490 | 159 | 1551 | 128 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 23 | 2641 | 1.677784131 | 516 | 161 | 1574.1 | 120 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 0 | 2737 | 1.698839302 | 534 | 165 | 1611.1 | 120 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 1 | 2794 | 1.694976947 | 557 | 169 | 1648.4 | 120 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 2 | 2723 | 1.679930903 | 640 | 166 | 1620.9 | 111 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 3 | 2586 | 1.666988977 | 705 | 159 | 1551.3 | 102 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 4 | 2610 | 1.675439723 | 688 | 159 | 1557.8 | 103 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 5 | 2581 | 1.654805411 | 684 | 160 | 1559.7 | 103 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 6 | 2512 | 1.629581576 | 670 | 158 | 1541.5 | 103 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 7 | 2313 | 1.603910963 | 624 | 148 | 1442.1 | 103 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 8 | 2163 | 1.581834138 | 518 | 140 | 1367.4 | 112 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 9 | 2605 | 1.5911312 | 501 | 168 | 1637.2 | 144 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 10 | 3351 | 1.59275631 | 658 | 215 | 2103.9 | 201 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 11 | 3306 | 1.557450417 | 870 | 217 | 2122.7 | 210 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 12 | 3007 | 1.540866001 | 647 | 200 | 1951.5 | 186 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 13 | 3033 | 1.539750228 | 693 | 202 | 1969.8 | 189 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 14 | 3285 | 1.531682753 | 757 | 220 | 2144.7 | 214 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 15 | 5559 | 1.560683905 | 1346 | 365 | 3561.9 | 371 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 16 | 5754 | 1.579987918 | 1380 | 373 | 3641.8 | 384 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 17 | 5619 | 1.563221589 | 1319 | 368 | 3594.5 | 378 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 18 | 5485 | 1.546202853 | 1309 | 364 | 3547.4 | 374 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 19 | 5074 | 1.523769483 | 1225 | 341 | 3329.9 | 349 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 20 | 4337 | 1.507263502 | 992 | 295 | 2877.4 | 303 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 21 | 3852 | 1.49186677 | 919 | 264 | 2582 | 272 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 22 | 2424 | 1.38593482 | 531 | 179 | 1749 | 170 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 23 | 1913 | 1.359340581 | 463 | 144 | 1407.3 | 120 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 0 | 1899 | 1.370426499 | 460 | 142 | 1385.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 1 | 1921 | 1.361542278 | 471 | 144 | 1410.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 2 | 1888 | 1.349438925 | 498 | 143 | 1399.1 | 120 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 3 | 1913 | 1.352039013 | 498 | 145 | 1414.9 | 120 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 4 | 1943 | 1.337509465 | 462 | 149 | 1452.7 | 126 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 5 | 2277 | 1.338466964 | 474 | 174 | 1701.2 | 150 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 6 | 1956 | 1.316994344 | 494 | 152 | 1485.2 | 122 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 7 | 1929 | 1.314122215 | 477 | 150 | 1467.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 8 | 1975 | 1.319657891 | 462 | 153 | 1496.6 | 133 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 9 | 3855 | 1.421040991 | 781 | 278 | 2712.8 | 275 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 10 | 5066 | 1.484890231 | 1262 | 350 | 3411.7 | 358 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 11 | 5331 | 1.482315649 | 1309 | 369 | 3596.4 | 379 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 12 | 5213 | 1.460510464 | 1299 | 366 | 3569.3 | 375 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 13 | 5091 | 1.439558886 | 1273 | 362 | 3536.5 | 369 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 14 | 5152 | 1.450818056 | 1281 | 364 | 3551.1 | 369 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 15 | 5111 | 1.458785249 | 1268 | 359 | 3503.6 | 364 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 16 | 5040 | 1.477442617 | 1275 | 350 | 3411.3 | 358 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 17 | 5042 | 1.469413925 | 1273 | 352 | 3431.3 | 359 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 18 | 4983 | 1.454338499 | 1284 | 351 | 3426.3 | 359 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 19 | 4850 | 1.447631555 | 1266 | 343 | 3350.3 | 354 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 20 | 4259 | 1.436715693 | 1123 | 304 | 2964.4 | 314 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 21 | 3822 | 1.427024605 | 969 | 274 | 2678.3 | 284 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 22 | 2119 | 1.39352887 | 533 | 156 | 1520.6 | 138 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 23 | 1969 | 1.412887486 | 480 | 143 | 1393.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 0 | 2121 | 1.435532995 | 515 | 151 | 1477.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 1 | 2275 | 1.460674157 | 548 | 159 | 1557.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 2 | 2568 | 1.475777254 | 600 | 178 | 1740.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 3 | 2682 | 1.496317786 | 652 | 183 | 1792.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 4 | 2826 | 1.497774009 | 692 | 193 | 1886.8 | 127 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 5 | 3543 | 1.515851624 | 670 | 239 | 2337.3 | 174 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 6 | 3052 | 1.511115512 | 807 | 207 | 2019.7 | 143 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 7 | 2637 | 1.456101601 | 807 | 185 | 1811 | 121 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 8 | 2364 | 1.445429532 | 796 | 167 | 1635.5 | 123 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 9 | 2229 | 1.46770264 | 757 | 155 | 1518.7 | 121 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 10 | 2075 | 1.475293281 | 697 | 144 | 1406.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 11 | 2491 | 1.498886816 | 714 | 170 | 1661.9 | 158 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 12 | 2469 | 1.51305307 | 703 | 167 | 1631.8 | 150 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 13 | 2334 | 1.516864886 | 661 | 157 | 1538.7 | 143 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 14 | 3379 | 1.518719942 | 1054 | 228 | 2224.9 | 230 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 15 | 4717 | 1.530350712 | 1192 | 316 | 3082.3 | 322 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 16 | 4248 | 1.518987342 | 1331 | 286 | 2796.6 | 301 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 17 | 2805 | 1.507416165 | 671 | 190 | 1860.8 | 187 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 18 | 3199 | 1.495069402 | 554 | 219 | 2139.7 | 214 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 19 | 2728 | 1.49832482 | 588 | 186 | 1820.7 | 173 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 20 | 2521 | 1.4737519 | 715 | 175 | 1710.6 | 120 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 21 | 2862 | 1.4550816 | 767 | 201 | 1966.9 | 125 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 22 | 2980 | 1.462863875 | 802 | 209 | 2037.1 | 122 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 23 | 2990 | 1.45103368 | 797 | 211 | 2060.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 0 | 3007 | 1.436556469 | 791 | 214 | 2093.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 1 | 3004 | 1.438421758 | 799 | 214 | 2088.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 2 | 2890 | 1.430126683 | 790 | 207 | 2020.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 3 | 2855 | 1.425789053 | 784 | 205 | 2002.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 4 | 2877 | 1.431628185 | 775 | 206 | 2009.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 5 | 2932 | 1.431221322 | 778 | 210 | 2048.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 6 | 2900 | 1.44739469 | 795 | 205 | 2003.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 7 | 2967 | 1.44830616 | 813 | 210 | 2048.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 8 | 2994 | 1.453256965 | 811 | 211 | 2060.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 9 | 3065 | 1.451643459 | 836 | 216 | 2111.4 | 121 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 10 | 3114 | 1.446152417 | 848 | 220 | 2153.3 | 120 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 11 | 2833 | 1.449475569 | 775 | 200 | 1954.5 | 121 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 12 | 2593 | 1.450548221 | 716 | 183 | 1787.6 | 120 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 13 | 2605 | 1.442094774 | 720 | 185 | 1806.4 | 121 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 14 | 2612 | 1.444210992 | 714 | 185 | 1808.6 | 121 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 15 | 2809 | 1.446372483 | 765 | 199 | 1942.1 | 121 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 16 | 2901 | 1.44839982 | 795 | 205 | 2002.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 17 | 3128 | 1.459363628 | 827 | 219 | 2143.4 | 128 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 18 | 3642 | 1.459368489 | 801 | 256 | 2495.6 | 165 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 19 | 3020 | 1.464597478 | 930 | 211 | 2062 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 20 | 3125 | 1.466103683 | 895 | 218 | 2131.5 | 121 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 21 | 3325 | 1.478566346 | 877 | 230 | 2248.8 | 132 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 22 | 3195 | 1.475069252 | 937 | 222 | 2166 | 120 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 23 | 3227 | 1.479257392 | 951 | 223 | 2181.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 0 | 3196 | 1.444715668 | 1061 | 227 | 2212.2 | 121 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 1 | 3278 | 1.466929204 | 1224 | 229 | 2234.6 | 123 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 2 | 3259 | 1.460976375 | 1073 | 228 | 2230.7 | 123 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 3 | 3254 | 1.459781975 | 1074 | 228 | 2229.1 | 123 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 4 | 3330 | 1.457968476 | 1075 | 234 | 2284 | 129 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 5 | 3184 | 1.449644873 | 1131 | 225 | 2196.4 | 123 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 6 | 3138 | 1.442427028 | 1129 | 223 | 2175.5 | 123 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 7 | 2942 | 1.451406019 | 1043 | 208 | 2027 | 121 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 8 | 2881 | 1.437122762 | 890 | 205 | 2004.7 | 155 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 9 | 2487 | 1.436907788 | 813 | 177 | 1730.8 | 149 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 10 | 1980 | 1.41783029 | 695 | 143 | 1396.5 | 126 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 11 | 1597 | 1.416533617 | 573 | 115 | 1127.4 | 121 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 12 | 1657 | 1.409732857 | 595 | 120 | 1175.4 | 122 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 13 | 2066 | 1.418663737 | 687 | 149 | 1456.3 | 142 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 14 | 3230 | 1.446419775 | 937 | 229 | 2233.1 | 231 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 15 | 2852 | 1.46414087 | 697 | 199 | 1947.9 | 204 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 16 | 1823 | 1.449586514 | 554 | 129 | 1257.6 | 122 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 17 | 1968 | 1.445889354 | 577 | 139 | 1361.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 18 | 2509 | 1.436669721 | 724 | 179 | 1746.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 19 | 2795 | 1.441985245 | 810 | 198 | 1938.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 20 | 2981 | 1.434345378 | 864 | 213 | 2078.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 21 | 3083 | 1.442339181 | 863 | 219 | 2137.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 22 | 3111 | 1.432650242 | 862 | 222 | 2171.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 23 | 3079 | 1.434160883 | 858 | 220 | 2146.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 0 | 3039 | 1.436064644 | 846 | 217 | 2116.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 1 | 2996 | 1.432670237 | 836 | 214 | 2091.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 2 | 2961 | 1.429260993 | 830 | 212 | 2071.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 3 | 2863 | 1.420632164 | 832 | 206 | 2015.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 4 | 2756 | 1.430202387 | 805 | 197 | 1927 | 119 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 5 | 2768 | 1.429678219 | 813 | 198 | 1936.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 6 | 2740 | 1.430435918 | 800 | 196 | 1915.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 7 | 2829 | 1.425404343 | 811 | 203 | 1984.7 | 123 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 8 | 2984 | 1.412745005 | 832 | 216 | 2112.2 | 130 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 9 | 2920 | 1.40014385 | 848 | 214 | 2085.5 | 120 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 10 | 2624 | 1.403433706 | 755 | 191 | 1869.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 11 | 2252 | 1.393133313 | 651 | 165 | 1616.5 | 120 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 12 | 1850 | 1.386806597 | 567 | 136 | 1334 | 129 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 13 | 1894 | 1.379461034 | 568 | 140 | 1373 | 122 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 14 | 2439 | 1.35839599 | 721 | 184 | 1795.5 | 127 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 15 | 2346 | 1.347501436 | 739 | 178 | 1741 | 122 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 16 | 2500 | 1.320097159 | 808 | 194 | 1893.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 17 | 2736 | 1.302299015 | 890 | 215 | 2100.9 | 120 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 18 | 3555 | 1.31069572 | 819 | 278 | 2712.3 | 188 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 19 | 2706 | 1.309143687 | 940 | 212 | 2067 | 121 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 20 | 2802 | 1.317410315 | 893 | 218 | 2126.9 | 120 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 21 | 3016 | 1.362055729 | 885 | 227 | 2214.3 | 132 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 22 | 2938 | 1.365431984 | 875 | 220 | 2151.7 | 123 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 23 | 2912 | 1.377874515 | 862 | 216 | 2113.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 0 | 2951 | 1.390931373 | 878 | 217 | 2121.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 1 | 2978 | 1.409103814 | 866 | 216 | 2113.4 | 120 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 2 | 2955 | 1.409693732 | 855 | 215 | 2096.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 3 | 2945 | 1.401580049 | 851 | 215 | 2101.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 4 | 2919 | 1.383805822 | 837 | 216 | 2109.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 5 | 2944 | 1.394005398 | 849 | 216 | 2111.9 | 120 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 6 | 2910 | 1.393344506 | 847 | 214 | 2088.5 | 120 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 7 | 2992 | 1.415594247 | 847 | 216 | 2113.6 | 120 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 8 | 3015 | 1.421097285 | 848 | 217 | 2121.6 | 121 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 9 | 2763 | 1.418377823 | 790 | 199 | 1948 | 120 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 10 | 2555 | 1.410511207 | 735 | 185 | 1811.4 | 120 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 11 | 2354 | 1.411609499 | 665 | 171 | 1667.6 | 124 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 12 | 2292 | 1.415688697 | 660 | 166 | 1619 | 122 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 13 | 2069 | 1.412961825 | 534 | 150 | 1464.3 | 125 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 14 | 2279 | 1.440490487 | 607 | 162 | 1582.1 | 136 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 15 | 2080 | 1.448871552 | 608 | 147 | 1435.6 | 124 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 16 | 2040 | 1.43783479 | 603 | 145 | 1418.8 | 121 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 17 | 2351 | 1.426750819 | 693 | 169 | 1647.8 | 123 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 18 | 3548 | 1.454396393 | 702 | 250 | 2439.5 | 193 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 19 | 2844 | 1.445342278 | 852 | 201 | 1967.7 | 126 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 20 | 2928 | 1.448429384 | 847 | 207 | 2021.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 21 | 3311 | 1.461229534 | 849 | 232 | 2265.9 | 143 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 22 | 3083 | 1.45014111 | 890 | 218 | 2126 | 119 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 23 | 3163 | 1.486721504 | 887 | 218 | 2127.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 0 | 3158 | 1.483464863 | 887 | 218 | 2128.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 1 | 3145 | 1.476525822 | 886 | 218 | 2130 | 119 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 2 | 3158 | 1.470204842 | 867 | 220 | 2148 | 119 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 3 | 3158 | 1.48061325 | 878 | 218 | 2132.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 4 | 3147 | 1.47850599 | 874 | 218 | 2128.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 5 | 3138 | 1.474970623 | 880 | 218 | 2127.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 6 | 3085 | 1.465001425 | 867 | 216 | 2105.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 7 | 3067 | 1.472042237 | 858 | 213 | 2083.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 8 | 2995 | 1.469145492 | 827 | 209 | 2038.6 | 120 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 9 | 2629 | 1.449922788 | 741 | 186 | 1813.2 | 123 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 10 | 2294 | 1.441769845 | 652 | 163 | 1591.1 | 121 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 11 | 1960 | 1.451314328 | 545 | 138 | 1350.5 | 132 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 12 | 2532 | 1.462822809 | 526 | 177 | 1730.9 | 179 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 13 | 3958 | 1.497937403 | 795 | 271 | 2642.3 | 281 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 14 | 5216 | 1.531010596 | 1264 | 349 | 3406.9 | 367 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 15 | 5273 | 1.519290057 | 1322 | 356 | 3470.7 | 379 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 16 | 5208 | 1.517438303 | 1287 | 352 | 3432.1 | 373 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 17 | 4155 | 1.505325701 | 960 | 283 | 2760.2 | 302 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 18 | 5004 | 1.531118047 | 1127 | 335 | 3268.2 | 349 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 19 | 4351 | 1.519575315 | 964 | 293 | 2863.3 | 308 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 20 | 3616 | 1.506415597 | 691 | 246 | 2400.4 | 214 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 21 | 3057 | 1.472472424 | 795 | 213 | 2076.1 | 130 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 22 | 3185 | 1.476519401 | 811 | 221 | 2157.1 | 131 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 23 | 3079 | 1.481713186 | 845 | 213 | 2078 | 119 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 0 | 3129 | 1.485613902 | 844 | 216 | 2106.2 | 120 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 1 | 3168 | 1.507781638 | 840 | 215 | 2101.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 2 | 3189 | 1.515756452 | 835 | 215 | 2103.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 3 | 3228 | 1.528988253 | 844 | 216 | 2111.2 | 120 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 4 | 3213 | 1.524844573 | 836 | 216 | 2107.1 | 120 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 5 | 3467 | 1.53570163 | 799 | 231 | 2257.6 | 135 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 6 | 3398 | 1.530975445 | 816 | 227 | 2219.5 | 130 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 7 | 3190 | 1.541137253 | 817 | 212 | 2069.9 | 120 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 8 | 3240 | 1.53663742 | 757 | 216 | 2108.5 | 131 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 9 | 2726 | 1.551684882 | 655 | 180 | 1756.8 | 125 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 10 | 2336 | 1.576886729 | 576 | 152 | 1481.4 | 121 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 11 | 2276 | 1.591831025 | 517 | 146 | 1429.8 | 138 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 12 | 4154 | 1.599353174 | 766 | 266 | 2597.3 | 271 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 13 | 5574 | 1.602276647 | 1301 | 356 | 3478.8 | 373 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 14 | 5758 | 1.607078065 | 1361 | 367 | 3582.9 | 388 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 15 | 5750 | 1.600467615 | 1358 | 368 | 3592.7 | 392 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 16 | 5183 | 1.601421288 | 1239 | 332 | 3236.5 | 356 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 17 | 4060 | 1.57132905 | 922 | 265 | 2583.8 | 284 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 18 | 5585 | 1.60010314 | 1249 | 358 | 3490.4 | 375 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 19 | 5429 | 1.595075802 | 1293 | 349 | 3403.6 | 366 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 20 | 3095 | 1.544873715 | 783 | 205 | 2003.4 | 182 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 21 | 3034 | 1.533329964 | 831 | 203 | 1978.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 22 | 3300 | 1.540544326 | 824 | 219 | 2142.1 | 130 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 23 | 3222 | 1.543251269 | 858 | 214 | 2087.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 0 | 3230 | 1.534441805 | 865 | 216 | 2105 | 119 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 1 | 3206 | 1.528413425 | 851 | 215 | 2097.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 2 | 3211 | 1.52657602 | 851 | 215 | 2103.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 3 | 3240 | 1.537804357 | 857 | 216 | 2106.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 4 | 3244 | 1.546529367 | 849 | 215 | 2097.6 | 120 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 5 | 3792 | 1.544602851 | 758 | 251 | 2455 | 159 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 6 | 3334 | 1.516143702 | 859 | 225 | 2199 | 136 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 7 | 3085 | 1.492429007 | 849 | 212 | 2067.1 | 120 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 8 | 2858 | 1.464214355 | 769 | 200 | 1951.9 | 124 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 9 | 2362 | 1.448635388 | 647 | 167 | 1630.5 | 123 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 10 | 2847 | 1.467979788 | 591 | 199 | 1939.4 | 200 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 11 | 5188 | 1.536092852 | 1158 | 346 | 3377.4 | 364 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 12 | 4009 | 1.531965302 | 1010 | 268 | 2616.9 | 289 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 13 | 4779 | 1.567090766 | 1058 | 312 | 3049.6 | 332 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 14 | 5455 | 1.577182178 | 1342 | 354 | 3458.7 | 375 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 15 | 5572 | 1.57387792 | 1377 | 363 | 3540.3 | 386 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 16 | 5383 | 1.556500116 | 1348 | 354 | 3458.4 | 376 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 17 | 4836 | 1.543322164 | 1137 | 321 | 3133.5 | 342 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 18 | 5597 | 1.549814476 | 1361 | 370 | 3611.4 | 390 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 19 | 5462 | 1.553823396 | 1332 | 360 | 3515.2 | 378 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 20 | 4788 | 1.570247934 | 1234 | 312 | 3049.2 | 330 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 21 | 2767 | 1.536112807 | 727 | 184 | 1801.3 | 162 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 22 | 2651 | 1.538595473 | 713 | 176 | 1723 | 119 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 23 | 2906 | 1.540745454 | 762 | 193 | 1886.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 0 | 3029 | 1.549281367 | 787 | 200 | 1955.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 1 | 3049 | 1.559032571 | 792 | 200 | 1955.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 2 | 3019 | 1.571904613 | 779 | 197 | 1920.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 3 | 3037 | 1.590468709 | 771 | 195 | 1909.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 4 | 2995 | 1.602461209 | 755 | 191 | 1869 | 119 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 5 | 3085 | 1.598362779 | 774 | 198 | 1930.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 6 | 3097 | 1.60300207 | 763 | 198 | 1932 | 119 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 7 | 2963 | 1.582968266 | 724 | 192 | 1871.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 8 | 2462 | 1.57005293 | 611 | 160 | 1568.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 9 | 3190 | 1.576710162 | 582 | 207 | 2023.2 | 208 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 10 | 5407 | 1.603879924 | 1132 | 345 | 3371.2 | 360 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 11 | 5643 | 1.63149069 | 1331 | 354 | 3458.8 | 375 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 12 | 5028 | 1.642439486 | 1129 | 314 | 3061.3 | 333 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 13 | 4303 | 1.642303729 | 969 | 268 | 2620.1 | 288 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 14 | 5703 | 1.676613259 | 1190 | 349 | 3401.5 | 367 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 15 | 5951 | 1.68131092 | 1337 | 363 | 3539.5 | 386 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 16 | 5364 | 1.65955077 | 1273 | 331 | 3232.2 | 350 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 17 | 4542 | 1.643865364 | 967 | 283 | 2763 | 303 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 18 | 3869 | 1.647153987 | 859 | 241 | 2348.9 | 255 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 19 | 3539 | 1.680117736 | 697 | 216 | 2106.4 | 223 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 20 | 3103 | 1.761566846 | 569 | 180 | 1761.5 | 182 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 21 | 2293 | 1.807931877 | 528 | 130 | 1268.3 | 122 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 22 | 2393 | 1.845596175 | 538 | 133 | 1296.6 | 121 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 23 | 2600 | 1.897533207 | 564 | 140 | 1370.2 | 122 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 0 | 2943 | 1.921645446 | 641 | 157 | 1531.5 | 120 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 1 | 3032 | 1.937256405 | 648 | 160 | 1565.1 | 120 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 2 | 3217 | 1.924043062 | 688 | 171 | 1672 | 120 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 3 | 3452 | 1.901195131 | 739 | 186 | 1815.7 | 121 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 4 | 3524 | 1.876664181 | 747 | 192 | 1877.8 | 126 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 5 | 3781 | 1.860911507 | 709 | 208 | 2031.8 | 139 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 6 | 3384 | 1.80692012 | 739 | 192 | 1872.8 | 121 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 7 | 3255 | 1.791710244 | 737 | 186 | 1816.7 | 120 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 8 | 3555 | 1.779724656 | 647 | 204 | 1997.5 | 176 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 9 | 4815 | 1.721487308 | 878 | 287 | 2797 | 290 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 10 | 6120 | 1.701512456 | 1420 | 369 | 3596.8 | 383 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 11 | 6041 | 1.677030703 | 1440 | 369 | 3602.2 | 389 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 12 | 4911 | 1.64148673 | 1238 | 307 | 2991.8 | 324 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 13 | 6016 | 1.682938428 | 1415 | 366 | 3574.7 | 382 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 14 | 6284 | 1.749881652 | 1447 | 368 | 3591.1 | 386 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 15 | 6408 | 1.784809069 | 1446 | 368 | 3590.3 | 386 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 16 | 6410 | 1.795518207 | 1453 | 366 | 3570 | 382 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 17 | 6487 | 1.789319799 | 1461 | 372 | 3625.4 | 388 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 18 | 6414 | 1.781369772 | 1447 | 369 | 3600.6 | 386 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 19 | 5599 | 1.760581096 | 1399 | 326 | 3180.2 | 343 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 20 | 5374 | 1.7663106 | 1317 | 312 | 3042.5 | 327 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 21 | 4416 | 1.774491682 | 1035 | 255 | 2488.6 | 268 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 22 | 2489 | 1.762123894 | 556 | 144 | 1412.5 | 140 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 23 | 2253 | 1.770669601 | 507 | 130 | 1272.4 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 0 | 2310 | 1.768488746 | 504 | 134 | 1306.2 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 1 | 2329 | 1.773800457 | 498 | 134 | 1313 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 2 | 2389 | 1.769891836 | 502 | 138 | 1349.8 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 3 | 2854 | 1.762163497 | 578 | 166 | 1619.6 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 4 | 2970 | 1.758124667 | 598 | 173 | 1689.3 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 5 | 3200 | 1.72385929 | 699 | 190 | 1856.3 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 6 | 3137 | 1.659876184 | 725 | 193 | 1889.9 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 7 | 3102 | 1.630829084 | 722 | 195 | 1902.1 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 8 | 3403 | 1.604658839 | 755 | 217 | 2120.7 | 137 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 9 | 3152 | 1.576472942 | 761 | 205 | 1999.4 | 123 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 10 | 3085 | 1.577843699 | 743 | 200 | 1955.2 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 11 | 3054 | 1.587978369 | 734 | 197 | 1923.2 | 121 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 12 | 3131 | 1.588614339 | 752 | 202 | 1970.9 | 120 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 13 | 3112 | 1.592956593 | 734 | 200 | 1953.6 | 120 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 14 | 3023 | 1.610634557 | 715 | 192 | 1876.9 | 120 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 15 | 2899 | 1.617113851 | 684 | 183 | 1792.7 | 120 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 16 | 2731 | 1.61837037 | 644 | 173 | 1687.5 | 120 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 17 | 2764 | 1.619689423 | 660 | 175 | 1706.5 | 120 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 18 | 3326 | 1.615347256 | 753 | 211 | 2059 | 138 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 19 | 3100 | 1.599587203 | 759 | 198 | 1938 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 20 | 3135 | 1.607362592 | 747 | 200 | 1950.4 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 21 | 3199 | 1.599659966 | 761 | 205 | 1999.8 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 22 | 3302 | 1.613880743 | 783 | 209 | 2046 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 23 | 3364 | 1.635868508 | 785 | 211 | 2056.4 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 0 | 3418 | 1.636189564 | 793 | 214 | 2089 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 1 | 3510 | 1.650677201 | 820 | 218 | 2126.4 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 2 | 3575 | 1.660473758 | 833 | 220 | 2153 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 3 | 3612 | 1.681720831 | 824 | 220 | 2147.8 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 4 | 3571 | 1.672051318 | 818 | 219 | 2135.7 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 5 | 3565 | 1.682079834 | 809 | 217 | 2119.4 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 6 | 3524 | 1.688386355 | 797 | 214 | 2087.2 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 7 | 3571 | 1.688735458 | 807 | 217 | 2114.6 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 8 | 3604 | 1.696159639 | 818 | 218 | 2124.8 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 9 | 3513 | 1.707245954 | 798 | 211 | 2057.7 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 10 | 3326 | 1.715140264 | 752 | 199 | 1939.2 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 11 | 3250 | 1.720395956 | 731 | 193 | 1889.1 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 12 | 3220 | 1.719350705 | 724 | 192 | 1872.8 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 13 | 3259 | 1.736373808 | 732 | 192 | 1876.9 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 14 | 3043 | 1.718723524 | 694 | 181 | 1770.5 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 15 | 3026 | 1.725494668 | 691 | 179 | 1753.7 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 16 | 3026 | 1.713573815 | 686 | 181 | 1765.9 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 17 | 3300 | 1.693002257 | 756 | 200 | 1949.2 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 18 | 3692 | 1.695366671 | 842 | 223 | 2177.7 | 123 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 19 | 3621 | 1.691265764 | 839 | 219 | 2141 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 20 | 3604 | 1.687265918 | 837 | 219 | 2136 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 21 | 3574 | 1.6905539 | 824 | 216 | 2114.1 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 22 | 3524 | 1.67961489 | 814 | 215 | 2098.1 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 23 | 3497 | 1.655854917 | 819 | 216 | 2111.9 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 0 | 3488 | 1.651593352 | 832 | 216 | 2111.9 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 1 | 3555 | 1.668622389 | 1012 | 218 | 2130.5 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 2 | 3555 | 1.688916338 | 1035 | 216 | 2104.9 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 3 | 3618 | 1.687736157 | 1041 | 219 | 2143.7 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 4 | 3658 | 1.712626996 | 1031 | 219 | 2135.9 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 5 | 3714 | 1.730177956 | 1023 | 220 | 2146.6 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 6 | 3668 | 1.754855995 | 997 | 214 | 2090.2 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 7 | 3736 | 1.760105531 | 1008 | 217 | 2122.6 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 8 | 3745 | 1.759207065 | 1019 | 218 | 2128.8 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 9 | 3481 | 1.753917469 | 944 | 203 | 1984.7 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 10 | 3167 | 1.740205506 | 857 | 186 | 1819.9 | 120 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 11 | 2965 | 1.743604822 | 802 | 174 | 1700.5 | 123 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 12 | 2676 | 1.72879385 | 732 | 158 | 1547.9 | 123 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 13 | 2725 | 1.703125 | 756 | 164 | 1600 | 120 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 14 | 2753 | 1.675083663 | 779 | 168 | 1643.5 | 120 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 15 | 2847 | 1.639032815 | 816 | 178 | 1737 | 120 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 16 | 2934 | 1.62117361 | 859 | 185 | 1809.8 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 17 | 3554 | 1.589445438 | 977 | 229 | 2236 | 136 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 18 | 4406 | 1.595740828 | 1107 | 283 | 2761.1 | 199 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 19 | 3380 | 1.57114303 | 1088 | 220 | 2151.3 | 132 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 20 | 3341 | 1.572235294 | 1005 | 218 | 2125 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 21 | 3355 | 1.563300871 | 1008 | 220 | 2146.1 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 22 | 3326 | 1.553915156 | 1008 | 219 | 2140.4 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 23 | 3324 | 1.551168977 | 1009 | 219 | 2142.9 | 119 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 0 | 3363 | 1.550484094 | 919 | 222 | 2169 | 119 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 1 | 3403 | 1.590186916 | 1010 | 219 | 2140 | 119 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 2 | 3475 | 1.620651059 | 1014 | 220 | 2144.2 | 119 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 3 | 3545 | 1.651602684 | 1019 | 220 | 2146.4 | 119 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 4 | 3554 | 1.6578039 | 1020 | 220 | 2143.8 | 119 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 5 | 3614 | 1.682495345 | 1031 | 220 | 2148 | 119 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 6 | 3613 | 1.687529192 | 1014 | 219 | 2141 | 121 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 7 | 3692 | 1.669455121 | 1021 | 226 | 2211.5 | 125 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 8 | 3563 | 1.631111518 | 1015 | 224 | 2184.4 | 122 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 9 | 3493 | 1.589171975 | 945 | 225 | 2198 | 134 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 10 | 2958 | 1.54958353 | 868 | 195 | 1908.9 | 134 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 11 | 3310 | 1.584490187 | 666 | 214 | 2089 | 197 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 12 | 3899 | 1.616366802 | 1092 | 247 | 2412.2 | 253 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 13 | 3525 | 1.557873337 | 742 | 232 | 2262.7 | 241 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 14 | 3418 | 1.572940635 | 671 | 222 | 2173 | 231 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 15 | 3239 | 1.615380779 | 655 | 205 | 2005.1 | 211 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 16 | 1993 | 1.540304506 | 644 | 132 | 1293.9 | 123 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 17 | 2720 | 1.511951084 | 836 | 184 | 1799 | 134 |
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| FL | Crystal River | 1 | 2013 | 11/6/2013 | 23 | 2370 | 1.395841922 | 915 | 174 | 1697.9 | 118 |

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| FL | Crystal River | 1 | 2013 | 11/30/2013 | 17 | | #DIV/0! | | | | |
| FL | Crystal River | 1 | 2013 | 11/30/2013 | 18 | | #DIV/0! | | | | |
| FL | Crystal River | 1 | 2013 | 11/30/2013 | 19 | | #DIV/0! | | | | |
| FL | Crystal River | 1 | 2013 | 11/30/2013 | 20 | | #DIV/0! | | | | |
| FL | Crystal River | 1 | 2013 | 11/30/2013 | 21 | | #DIV/0! | | | | |
| FL | Crystal River | 1 | 2013 | 11/30/2013 | 22 | | #DIV/0! | | | | |
| FL | Crystal River | 1 | 2013 | 11/30/2013 | 23 | | #DIV/0! | | | | |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 0 | 2199 | 1.589906731 | 430 | 141 | 1383.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 1 | 2203 | 1.587061451 | 428 | 142 | 1388.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 2 | 2200 | 1.601397583 | 441 | 141 | 1373.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 3 | 2207 | 1.617442287 | 438 | 140 | 1364.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 4 | 2208 | 1.627238558 | 450 | 139 | 1356.9 | 119 |
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| FL | Crystal River | 2 | 2013 | 9/1/2013 | 6 | 2232 | 1.643956691 | 464 | 139 | 1357.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 7 | 2275 | 1.637986896 | 452 | 142 | 1388.9 | 121 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 8 | 3444 | 1.65887963 | 390 | 213 | 2076.1 | 197 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 9 | 3480 | 1.614399703 | 388 | 221 | 2155.6 | 211 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 10 | 5169 | 1.579767726 | 700 | 335 | 3272 | 339 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 11 | 6107 | 1.571741089 | 1220 | 398 | 3885.5 | 418 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 12 | 6639 | 1.579172712 | 1429 | 431 | 4204.1 | 459 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 13 | 6791 | 1.585459809 | 1456 | 439 | 4283.3 | 466 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 14 | 6934 | 1.614961804 | 1477 | 440 | 4293.6 | 469 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 15 | 6331 | 1.636805502 | 1179 | 396 | 3867.9 | 418 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 16 | 6377 | 1.646952479 | 1165 | 397 | 3872 | 419 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 17 | 5544 | 1.607282637 | 879 | 353 | 3449.3 | 371 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 18 | 3981 | 1.553136704 | 428 | 263 | 2563.2 | 258 |

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|----|---------------|---|------|----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 19 | 3944 | 1.533377396 | 455 | 263 | 2572.1 | 261 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 20 | 2452 | 1.501163218 | 429 | 167 | 1633.4 | 152 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 21 | 2032 | 1.481913652 | 447 | 140 | 1371.2 | 120 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 22 | 2038 | 1.470949116 | 436 | 142 | 1385.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 23 | 2041 | 1.475884012 | 424 | 141 | 1382.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 0 | 2052 | 1.474561656 | 418 | 142 | 1391.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 1 | 2034 | 1.474340389 | 415 | 141 | 1379.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 2 | 2007 | 1.464642779 | 412 | 140 | 1370.3 | 119 |
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| FL | Crystal River | 2 | 2013 | 9/2/2013 | 4 | 1954 | 1.443451282 | 399 | 138 | 1353.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 5 | 1971 | 1.436170213 | 392 | 140 | 1372.4 | 119 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 6 | 1953 | 1.436874632 | 399 | 139 | 1359.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 7 | 2020 | 1.458378456 | 397 | 142 | 1385.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 8 | 2082 | 1.509789703 | 401 | 141 | 1379 | 121 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 9 | 3686 | 1.574339042 | 458 | 240 | 2341.3 | 228 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 10 | 5264 | 1.59124573 | 750 | 339 | 3308.1 | 349 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 11 | 6759 | 1.611088599 | 1443 | 430 | 4195.3 | 453 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 12 | 6706 | 1.614347617 | 1408 | 426 | 4154 | 452 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 13 | 6499 | 1.572846079 | 1433 | 423 | 4132 | 450 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 14 | 6365 | 1.532405624 | 1433 | 426 | 4153.6 | 450 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 15 | 6293 | 1.518507794 | 1433 | 425 | 4144.2 | 447 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 16 | 6370 | 1.542260853 | 1425 | 423 | 4130.3 | 447 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 17 | 6249 | 1.581584875 | 1323 | 405 | 3951.1 | 431 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 18 | 6377 | 1.60113488 | 1266 | 408 | 3982.8 | 432 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 19 | 6281 | 1.63363504 | 1241 | 394 | 3844.8 | 420 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 20 | 5084 | 1.658186562 | 659 | 314 | 3066 | 329 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 21 | 2775 | 1.632641054 | 365 | 174 | 1699.7 | 156 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 22 | 2291 | 1.619882627 | 372 | 145 | 1414.3 | 120 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 23 | 2272 | 1.613980251 | 374 | 144 | 1407.7 | 120 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 0 | 2245 | 1.590731949 | 368 | 144 | 1411.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 1 | 2208 | 1.561638022 | 364 | 145 | 1413.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 2 | 2182 | 1.541940499 | 367 | 145 | 1415.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 3 | 2132 | 1.525908961 | 371 | 143 | 1397.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 4 | 2061 | 1.515441176 | 376 | 139 | 1360 | 119 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 5 | 2139 | 1.50517205 | 378 | 145 | 1421.1 | 124 |

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|----|---------------|---|------|----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 6 | 2079 | 1.52441707 | 380 | 139 | 1363.8 | 120 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 7 | 2324 | 1.512922336 | 374 | 157 | 1536.1 | 135 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 8 | 3017 | 1.511068817 | 393 | 204 | 1996.6 | 192 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 9 | 5145 | 1.528838439 | 858 | 345 | 3365.3 | 357 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 10 | 6070 | 1.540843783 | 1296 | 404 | 3939.4 | 424 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 11 | 6701 | 1.55371096 | 1522 | 442 | 4312.9 | 473 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 12 | 5736 | 1.547676866 | 1067 | 380 | 3706.2 | 402 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 13 | 6835 | 1.555742705 | 1528 | 450 | 4393.4 | 476 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 14 | 6900 | 1.55538524 | 1574 | 455 | 4436.2 | 483 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 15 | 6822 | 1.551124349 | 1578 | 451 | 4398.1 | 482 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 16 | 6784 | 1.551834569 | 1551 | 448 | 4371.6 | 478 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 17 | 6806 | 1.561689727 | 1542 | 447 | 4358.1 | 477 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 18 | 6840 | 1.59648959 | 1503 | 439 | 4284.4 | 471 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 19 | 6403 | 1.613252708 | 1282 | 407 | 3969 | 434 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 20 | 5637 | 1.634244629 | 900 | 353 | 3449.3 | 374 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 21 | 4828 | 1.659391648 | 547 | 298 | 2909.5 | 309 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 22 | 2981 | 1.692788189 | 394 | 180 | 1761 | 165 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 23 | 2456 | 1.719887955 | 425 | 146 | 1428 | 122 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 0 | 2472 | 1.741826381 | 413 | 145 | 1419.2 | 122 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 1 | 2434 | 1.709269663 | 420 | 146 | 1424 | 122 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 2 | 2362 | 1.654061625 | 405 | 146 | 1428 | 122 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 3 | 2321 | 1.628429103 | 400 | 146 | 1425.3 | 121 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 4 | 2305 | 1.631280962 | 394 | 145 | 1413 | 121 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 5 | 2507 | 1.656644419 | 361 | 155 | 1513.3 | 132 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 6 | 2321 | 1.692307692 | 412 | 140 | 1371.5 | 120 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 7 | 2449 | 1.699986117 | 387 | 147 | 1440.6 | 125 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 8 | 4043 | 1.741396391 | 404 | 238 | 2321.7 | 221 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 9 | 6171 | 1.713214881 | 976 | 369 | 3602 | 384 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 10 | 7399 | 1.717821322 | 1567 | 441 | 4307.2 | 470 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 11 | 7361 | 1.716330908 | 1526 | 440 | 4288.8 | 471 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 12 | 7336 | 1.678411275 | 1551 | 448 | 4370.8 | 480 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 13 | 7387 | 1.676196959 | 1577 | 452 | 4407 | 486 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 14 | 7279 | 1.694051387 | 1491 | 440 | 4296.8 | 473 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 15 | 6569 | 1.706411056 | 1174 | 395 | 3849.6 | 420 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 16 | 6447 | 1.692659105 | 1157 | 390 | 3808.8 | 414 |

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| FL | Crystal River | 2 | 2013 | 9/4/2013 | 17 | 5614 | 1.675120845 | 697 | 343 | 3351.4 | 360 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 18 | 5695 | 1.672147513 | 742 | 349 | 3405.8 | 372 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 19 | 4865 | 1.714174976 | 547 | 291 | 2838.1 | 300 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 20 | 3015 | 1.7811178 | 360 | 173 | 1692.7 | 163 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 21 | 2448 | 1.74371394 | 404 | 144 | 1403.9 | 122 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 22 | 2494 | 1.733509418 | 401 | 147 | 1438.7 | 126 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 23 | 2313 | 1.693512959 | 405 | 140 | 1365.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 0 | 2281 | 1.672532629 | 405 | 139 | 1363.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 1 | 2236 | 1.619116582 | 400 | 141 | 1381 | 119 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 2 | 2221 | 1.600028816 | 392 | 142 | 1388.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 3 | 2189 | 1.595829992 | 371 | 140 | 1371.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 4 | 2164 | 1.581177846 | 369 | 140 | 1368.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 5 | 2184 | 1.592068815 | 369 | 140 | 1371.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 6 | 2156 | 1.58692772 | 365 | 139 | 1358.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 7 | 2296 | 1.595330739 | 365 | 147 | 1439.2 | 126 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 8 | 3689 | 1.63948269 | 405 | 230 | 2250.1 | 219 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 9 | 4678 | 1.653178782 | 594 | 290 | 2829.7 | 297 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 10 | 5695 | 1.673523362 | 830 | 349 | 3403 | 368 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 11 | 7374 | 1.702491169 | 1541 | 444 | 4331.3 | 482 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 12 | 7139 | 1.69335136 | 1425 | 432 | 4215.9 | 467 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 13 | 7765 | 1.703037614 | 1632 | 467 | 4559.5 | 507 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 14 | 7810 | 1.699895525 | 1644 | 471 | 4594.4 | 507 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 15 | 7847 | 1.695512197 | 1670 | 474 | 4628.1 | 511 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 16 | 7855 | 1.697570885 | 1675 | 474 | 4627.2 | 512 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 17 | 7878 | 1.707375219 | 1661 | 473 | 4614.1 | 511 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 18 | 7911 | 1.717094982 | 1658 | 472 | 4607.2 | 511 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 19 | 7689 | 1.716869488 | 1589 | 459 | 4478.5 | 499 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 20 | 5461 | 1.713846347 | 774 | 326 | 3186.4 | 350 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 21 | 4408 | 1.677065896 | 470 | 269 | 2628.4 | 276 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 22 | 2926 | 1.652453832 | 421 | 181 | 1770.7 | 172 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 23 | 2268 | 1.628374497 | 445 | 142 | 1392.8 | 122 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 0 | 2240 | 1.633605601 | 455 | 140 | 1371.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 1 | 2264 | 1.647623899 | 457 | 141 | 1374.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 2 | 2274 | 1.648303856 | 467 | 141 | 1379.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 3 | 2286 | 1.66460351 | 458 | 140 | 1373.3 | 119 |

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|----|---------------|---|------|----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 4 | 2269 | 1.669978656 | 448 | 139 | 1358.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 5 | 2293 | 1.678132319 | 444 | 140 | 1366.4 | 119 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 6 | 2259 | 1.672342316 | 422 | 138 | 1350.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 7 | 2663 | 1.687900108 | 396 | 161 | 1577.7 | 144 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 8 | 4399 | 1.716080206 | 512 | 263 | 2563.4 | 263 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 9 | 6254 | 1.706784564 | 1000 | 375 | 3664.2 | 396 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 10 | 7902 | 1.722394176 | 1587 | 470 | 4587.8 | 510 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 11 | 8096 | 1.74761473 | 1579 | 475 | 4632.6 | 516 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 12 | 8018 | 1.759606733 | 1499 | 467 | 4556.7 | 507 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 13 | 7976 | 1.757563738 | 1488 | 465 | 4538.1 | 504 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 14 | 7700 | 1.749642119 | 1403 | 451 | 4400.9 | 486 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 15 | 7250 | 1.72569742 | 1289 | 431 | 4201.2 | 461 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 16 | 5888 | 1.722796032 | 786 | 350 | 3417.7 | 377 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 17 | 3419 | 1.690231362 | 349 | 207 | 2022.8 | 205 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 18 | 2405 | 1.615069505 | 349 | 152 | 1489.1 | 133 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 19 | 2884 | 1.629194441 | 359 | 181 | 1770.2 | 167 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 20 | 2216 | 1.59873025 | 413 | 142 | 1386.1 | 120 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 21 | 2260 | 1.595256582 | 386 | 145 | 1416.7 | 122 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 22 | 2219 | 1.5973222 | 395 | 142 | 1389.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 23 | 2210 | 1.613963339 | 386 | 140 | 1369.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 0 | 2228 | 1.620953074 | 387 | 141 | 1374.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 1 | 2230 | 1.609411085 | 374 | 142 | 1385.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 2 | 2237 | 1.614113572 | 365 | 142 | 1385.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 3 | 2241 | 1.618050542 | 360 | 142 | 1385 | 119 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 4 | 2233 | 1.633145615 | 362 | 140 | 1367.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 5 | 2191 | 1.620322438 | 367 | 138 | 1352.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 6 | 2157 | 1.61827594 | 363 | 136 | 1332.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 7 | 2169 | 1.615762813 | 362 | 137 | 1342.4 | 119 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 8 | 2207 | 1.60754607 | 366 | 140 | 1372.9 | 122 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 9 | 3071 | 1.615380569 | 340 | 195 | 1901.1 | 182 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 10 | 4948 | 1.641890098 | 614 | 309 | 3013.6 | 319 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 11 | 7198 | 1.654256297 | 1483 | 446 | 4351.2 | 480 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 12 | 7573 | 1.675479546 | 1523 | 463 | 4519.9 | 505 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 13 | 7687 | 1.675421198 | 1527 | 470 | 4588.1 | 507 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 14 | 7664 | 1.674386088 | 1524 | 469 | 4577.2 | 507 |

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|----|---------------|---|------|----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 15 | 7671 | 1.6709142 | 1538 | 471 | 4590.9 | 507 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 16 | 7686 | 1.686598934 | 1544 | 467 | 4557.1 | 507 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 17 | 7177 | 1.690814427 | 1371 | 435 | 4244.7 | 474 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 18 | 5856 | 1.681019635 | 843 | 357 | 3483.6 | 385 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 19 | 6110 | 1.661771105 | 959 | 377 | 3676.8 | 405 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 20 | 4624 | 1.66955517 | 504 | 284 | 2769.6 | 299 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 21 | 3189 | 1.640516487 | 386 | 199 | 1943.9 | 190 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 22 | 2335 | 1.637217782 | 373 | 146 | 1426.2 | 128 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 23 | 2202 | 1.628939192 | 451 | 138 | 1351.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 0 | 2214 | 1.632863781 | 444 | 139 | 1355.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 1 | 2208 | 1.634465912 | 437 | 138 | 1350.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 2 | 2206 | 1.643447813 | 429 | 137 | 1342.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 3 | 2210 | 1.639465875 | 424 | 138 | 1348 | 119 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 4 | 2188 | 1.626523937 | 406 | 138 | 1345.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 5 | 2209 | 1.635932756 | 384 | 138 | 1350.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 6 | 2161 | 1.628853546 | 379 | 136 | 1326.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 7 | 2172 | 1.608888889 | 361 | 138 | 1350 | 119 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 8 | 2220 | 1.592082616 | 359 | 143 | 1394.4 | 123 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 9 | 3258 | 1.606112891 | 419 | 208 | 2028.5 | 199 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 10 | 6248 | 1.633592177 | 1032 | 392 | 3824.7 | 412 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 11 | 7677 | 1.680640995 | 1562 | 468 | 4567.9 | 510 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 12 | 7909 | 1.702581103 | 1546 | 476 | 4645.3 | 516 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 13 | 8057 | 1.727746446 | 1552 | 478 | 4663.3 | 517 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 14 | 8053 | 1.733430915 | 1537 | 476 | 4645.7 | 513 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 15 | 7731 | 1.697703017 | 1493 | 467 | 4553.8 | 502 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 16 | 7208 | 1.67909057 | 1343 | 440 | 4292.8 | 472 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 17 | 6345 | 1.666491569 | 1039 | 390 | 3807.4 | 418 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 18 | 6138 | 1.716155008 | 890 | 367 | 3576.6 | 391 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 19 | 7223 | 1.79582805 | 1190 | 412 | 4022.1 | 444 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 20 | 6396 | 1.85246329 | 828 | 354 | 3452.7 | 384 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 21 | 4173 | 1.8697912 | 450 | 229 | 2231.8 | 238 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 22 | 2441 | 1.798953497 | 515 | 139 | 1356.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 23 | 2411 | 1.768243491 | 505 | 139 | 1363.5 | 120 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 0 | 2352 | 1.712288876 | 498 | 140 | 1373.6 | 120 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 1 | 2303 | 1.683233445 | 504 | 140 | 1368.2 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 2 | 2261 | 1.666912415 | 497 | 139 | 1356.4 | 119 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 3 | 2215 | 1.627718989 | 480 | 139 | 1360.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 4 | 2141 | 1.597165237 | 466 | 137 | 1340.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 5 | 2183 | 1.571634269 | 454 | 142 | 1389 | 124 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 6 | 2049 | 1.519691463 | 442 | 138 | 1348.3 | 120 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 7 | 2576 | 1.505552309 | 359 | 175 | 1711 | 158 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 8 | 3347 | 1.491931889 | 361 | 230 | 2243.4 | 221 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 9 | 4139 | 1.528321394 | 457 | 277 | 2708.2 | 281 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 10 | 5327 | 1.58089981 | 724 | 345 | 3369.6 | 366 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 11 | 6307 | 1.61085996 | 1170 | 401 | 3915.3 | 430 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 12 | 6576 | 1.60046729 | 1253 | 421 | 4108.8 | 455 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 13 | 7305 | 1.597314849 | 1518 | 469 | 4573.3 | 507 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 14 | 7353 | 1.60087958 | 1524 | 471 | 4593.1 | 507 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 15 | 7340 | 1.596589302 | 1526 | 471 | 4597.3 | 507 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 16 | 7230 | 1.583616252 | 1543 | 468 | 4565.5 | 507 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 17 | 7046 | 1.570909415 | 1498 | 460 | 4485.3 | 496 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 18 | 6052 | 1.595066154 | 1062 | 389 | 3794.2 | 419 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 19 | 6121 | 1.669803857 | 956 | 376 | 3665.7 | 406 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 20 | 5242 | 1.728492762 | 612 | 311 | 3032.7 | 328 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 21 | 2672 | 1.724204685 | 458 | 159 | 1549.7 | 143 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 22 | 2369 | 1.709852039 | 500 | 142 | 1385.5 | 121 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 23 | 2349 | 1.712723296 | 500 | 140 | 1371.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 0 | 2333 | 1.714936783 | 492 | 139 | 1360.4 | 119 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 1 | 2299 | 1.714520098 | 492 | 137 | 1340.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 2 | 2286 | 1.707499253 | 460 | 137 | 1338.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 3 | 2273 | 1.682955723 | 428 | 138 | 1350.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 4 | 2240 | 1.68130301 | 419 | 136 | 1332.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 5 | 2298 | 1.668602963 | 418 | 141 | 1377.2 | 123 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 6 | 2222 | 1.673192771 | 414 | 136 | 1328 | 120 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 7 | 2294 | 1.6861448 | 400 | 139 | 1360.5 | 121 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 8 | 3790 | 1.755848969 | 416 | 221 | 2158.5 | 215 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 9 | 6138 | 1.804020691 | 768 | 349 | 3402.4 | 369 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 10 | 6672 | 1.811419108 | 1049 | 377 | 3683.3 | 406 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 11 | 7834 | 1.821775731 | 1406 | 441 | 4300.2 | 479 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 12 | 8178 | 1.804143043 | 1523 | 465 | 4532.9 | 506 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 13 | 8009 | 1.763630758 | 1530 | 465 | 4541.2 | 506 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 14 | 7903 | 1.739944079 | 1539 | 466 | 4542.1 | 506 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 15 | 8017 | 1.763295649 | 1545 | 466 | 4546.6 | 506 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 16 | 8239 | 1.815957681 | 1515 | 465 | 4537 | 506 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 17 | 8368 | 1.842319632 | 1512 | 466 | 4542.1 | 506 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 18 | 7433 | 1.825079186 | 1250 | 417 | 4072.7 | 453 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 19 | 7365 | 1.790184974 | 1291 | 422 | 4114.1 | 461 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 20 | 5721 | 1.744686042 | 750 | 336 | 3279.1 | 361 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 21 | 3320 | 1.71186965 | 347 | 199 | 1939.4 | 194 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 22 | 2684 | 1.672795263 | 426 | 164 | 1604.5 | 147 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 23 | 2271 | 1.658027305 | 526 | 140 | 1369.7 | 120 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 0 | 2245 | 1.64940122 | 556 | 139 | 1361.1 | 120 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 1 | 2256 | 1.651053864 | 547 | 140 | 1366.4 | 120 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 2 | 2225 | 1.630633932 | 514 | 140 | 1364.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 3 | 2216 | 1.622373527 | 499 | 140 | 1365.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 4 | 2179 | 1.600088119 | 478 | 139 | 1361.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 5 | 2853 | 1.629354654 | 432 | 179 | 1751 | 165 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 6 | 2340 | 1.635563011 | 492 | 146 | 1430.7 | 137 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 7 | 2461 | 1.6287227 | 433 | 155 | 1511 | 136 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 8 | 4091 | 1.65246193 | 475 | 254 | 2475.7 | 252 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 9 | 5930 | 1.666947771 | 775 | 365 | 3557.4 | 386 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 10 | 6894 | 1.675334143 | 1201 | 422 | 4115 | 457 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 11 | 6925 | 1.656500419 | 1291 | 428 | 4180.5 | 467 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 12 | 6218 | 1.644103649 | 1055 | 388 | 3782 | 421 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 13 | 6080 | 1.650693671 | 946 | 377 | 3683.3 | 405 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 14 | 7198 | 1.68539852 | 1366 | 438 | 4270.8 | 477 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 15 | 7339 | 1.69746733 | 1374 | 443 | 4323.5 | 485 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 16 | 7296 | 1.703041479 | 1379 | 439 | 4284.1 | 484 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 17 | 6447 | 1.678469149 | 1113 | 394 | 3841 | 434 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 18 | 6389 | 1.686597503 | 1019 | 388 | 3788.1 | 423 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 19 | 7033 | 1.693596937 | 1303 | 426 | 4152.7 | 468 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 20 | 5566 | 1.691536241 | 756 | 337 | 3290.5 | 364 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 21 | 3025 | 1.666942194 | 366 | 186 | 1814.7 | 175 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 22 | 2615 | 1.644033698 | 397 | 163 | 1590.6 | 146 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 23 | 2210 | 1.615260927 | 532 | 140 | 1368.2 | 120 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 0 | 2201 | 1.605514625 | 504 | 140 | 1370.9 | 122 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 1 | 2171 | 1.596793174 | 527 | 139 | 1359.6 | 120 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 2 | 2167 | 1.612951247 | 519 | 137 | 1343.5 | 120 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 3 | 2170 | 1.600885282 | 494 | 139 | 1355.5 | 120 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 4 | 2136 | 1.608433735 | 482 | 136 | 1328 | 120 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 5 | 2500 | 1.609476598 | 399 | 159 | 1553.3 | 144 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 6 | 2138 | 1.59006396 | 493 | 138 | 1344.6 | 125 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 7 | 2701 | 1.61601053 | 409 | 171 | 1671.4 | 158 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 8 | 4394 | 1.631334695 | 503 | 276 | 2693.5 | 282 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 9 | 5609 | 1.645929925 | 756 | 349 | 3407.8 | 378 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 10 | 5842 | 1.646004733 | 926 | 364 | 3549.2 | 392 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 11 | 6085 | 1.637777897 | 1006 | 381 | 3715.4 | 410 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 12 | 6646 | 1.650237132 | 1212 | 413 | 4027.3 | 448 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 13 | 6160 | 1.637513956 | 1045 | 386 | 3761.8 | 417 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 14 | 6247 | 1.640579862 | 1051 | 390 | 3807.8 | 421 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 15 | 6477 | 1.640079003 | 1153 | 405 | 3949.2 | 436 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 16 | 6215 | 1.638199167 | 1077 | 389 | 3793.8 | 419 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 17 | 6109 | 1.622188587 | 1054 | 386 | 3765.9 | 416 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 18 | 5856 | 1.622834973 | 920 | 370 | 3608.5 | 399 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 19 | 6057 | 1.627001182 | 1038 | 382 | 3722.8 | 416 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 20 | 5307 | 1.621250076 | 707 | 335 | 3273.4 | 363 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 21 | 4106 | 1.621771072 | 465 | 259 | 2531.8 | 270 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 22 | 2130 | 1.592285266 | 529 | 137 | 1337.7 | 121 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 23 | 2144 | 1.578211262 | 529 | 139 | 1358.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 0 | 2147 | 1.587313322 | 528 | 138 | 1352.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 1 | 2150 | 1.569686793 | 534 | 140 | 1369.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 2 | 2138 | 1.567104009 | 521 | 140 | 1364.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 3 | 2137 | 1.5669453 | 491 | 139 | 1363.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 4 | 2108 | 1.561597155 | 463 | 138 | 1349.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 5 | 2135 | 1.564446398 | 439 | 140 | 1364.7 | 120 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 6 | 2089 | 1.561168821 | 440 | 137 | 1338.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 7 | 2242 | 1.571348472 | 402 | 146 | 1426.8 | 126 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 8 | 2585 | 1.58657092 | 382 | 167 | 1629.3 | 150 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 9 | 3741 | 1.615564001 | 467 | 237 | 2315.6 | 231 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 10 | 6204 | 1.645928952 | 1134 | 386 | 3769.3 | 410 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 11 | 6601 | 1.65579692 | 1211 | 409 | 3986.6 | 439 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 12 | 7039 | 1.648825279 | 1383 | 438 | 4269.1 | 471 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 13 | 7179 | 1.659385618 | 1427 | 443 | 4326.3 | 478 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 14 | 6201 | 1.660907995 | 1045 | 383 | 3733.5 | 411 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 15 | 7058 | 1.661957238 | 1371 | 435 | 4246.8 | 465 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 16 | 6272 | 1.64641029 | 1078 | 390 | 3809.5 | 417 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 17 | 5531 | 1.632767528 | 796 | 347 | 3387.5 | 370 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 18 | 5247 | 1.625112274 | 616 | 331 | 3228.7 | 351 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 19 | 5357 | 1.62727825 | 651 | 337 | 3292 | 359 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 20 | 3034 | 1.612371791 | 449 | 193 | 1881.7 | 186 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 21 | 2184 | 1.579746835 | 503 | 141 | 1382.5 | 120 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 22 | 2189 | 1.586002029 | 503 | 141 | 1380.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 23 | 2173 | 1.569406327 | 509 | 142 | 1384.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 0 | 2173 | 1.577724534 | 488 | 141 | 1377.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 1 | 2182 | 1.574882714 | 468 | 142 | 1385.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 2 | 2193 | 1.577811353 | 458 | 142 | 1389.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 3 | 2188 | 1.581953583 | 442 | 141 | 1383.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 4 | 2158 | 1.577831396 | 445 | 140 | 1367.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 5 | 2169 | 1.56549982 | 406 | 142 | 1385.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 6 | 2129 | 1.577037037 | 390 | 138 | 1350 | 119 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 7 | 2165 | 1.573629888 | 416 | 141 | 1375.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 8 | 3041 | 1.60086334 | 410 | 194 | 1899.6 | 179 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 9 | 4063 | 1.601119168 | 464 | 260 | 2537.6 | 255 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 10 | 6845 | 1.621884182 | 1392 | 433 | 4220.4 | 461 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 11 | 6275 | 1.616185031 | 1172 | 398 | 3882.6 | 430 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 12 | 5708 | 1.595750629 | 922 | 367 | 3577 | 391 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 13 | 6778 | 1.607189434 | 1298 | 432 | 4217.3 | 464 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 14 | 6896 | 1.609222225 | 1349 | 439 | 4285.3 | 472 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 15 | 7233 | 1.617939828 | 1457 | 458 | 4470.5 | 494 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 16 | 7551 | 1.619552162 | 1557 | 478 | 4662.4 | 512 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 17 | 7339 | 1.633902531 | 1486 | 460 | 4491.7 | 499 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 18 | 6196 | 1.616530564 | 1061 | 393 | 3832.9 | 421 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 19 | 5784 | 1.620349619 | 899 | 366 | 3569.6 | 393 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 20 | 4070 | 1.604130538 | 436 | 260 | 2537.2 | 263 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 21 | 2486 | 1.56637893 | 373 | 162 | 1587.1 | 139 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 22 | 2300 | 1.553004727 | 413 | 151 | 1481 | 122 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 23 | 2199 | 1.551651143 | 463 | 145 | 1417.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 0 | 2178 | 1.562634524 | 465 | 143 | 1393.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 1 | 2174 | 1.555523755 | 465 | 143 | 1397.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 2 | 2163 | 1.549648947 | 456 | 143 | 1395.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 3 | 2158 | 1.555315315 | 438 | 142 | 1387.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 4 | 2124 | 1.556614144 | 427 | 140 | 1364.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 5 | 2142 | 1.549927641 | 409 | 141 | 1382 | 119 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 6 | 2094 | 1.546528804 | 413 | 138 | 1354 | 119 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 7 | 2264 | 1.545497986 | 391 | 150 | 1464.9 | 130 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 8 | 4304 | 1.592894152 | 499 | 277 | 2702 | 273 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 9 | 4872 | 1.581304771 | 727 | 316 | 3081 | 327 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 10 | 6070 | 1.601878975 | 1110 | 388 | 3789.3 | 412 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 11 | 6638 | 1.644249585 | 1243 | 414 | 4037.1 | 444 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 12 | 6816 | 1.660899654 | 1235 | 421 | 4103.8 | 447 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 13 | 6072 | 1.647761194 | 958 | 378 | 3685 | 401 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 14 | 5805 | 1.640432927 | 845 | 363 | 3538.7 | 382 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 15 | 5890 | 1.6440115 | 910 | 367 | 3582.7 | 392 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 16 | 5506 | 1.625483423 | 721 | 347 | 3387.3 | 349 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 17 | 4723 | 1.615695129 | 523 | 299 | 2923.2 | 318 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 18 | 4643 | 1.602249983 | 481 | 297 | 2897.8 | 284 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 19 | 4649 | 1.576680459 | 545 | 302 | 2948.6 | 321 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 20 | 2499 | 1.529282174 | 428 | 167 | 1634.1 | 147 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 21 | 1943 | 1.487862777 | 421 | 134 | 1305.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 22 | 2024 | 1.495713863 | 445 | 138 | 1353.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 23 | 1955 | 1.502690238 | 426 | 133 | 1301 | 119 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 0 | 2156 | 1.501392758 | 389 | 147 | 1436 | 119 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 1 | 2178 | 1.516713092 | 380 | 147 | 1436 | 119 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 2 | 2169 | 1.510445682 | 392 | 147 | 1436 | 119 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 3 | 2182 | 1.519498607 | 415 | 147 | 1436 | 119 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 4 | 2153 | 1.534568781 | 430 | 143 | 1403 | 119 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 5 | 2179 | 1.535047552 | 441 | 145 | 1419.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 6 | 2143 | 1.527441197 | 429 | 143 | 1403 | 120 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 7 | 2163 | 1.523775977 | 417 | 145 | 1419.5 | 121 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 8 | 2452 | 1.547491322 | 353 | 162 | 1584.5 | 161 |

| | | | | | | | | | | | |
|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 9 | 2734 | 1.537855777 | 352 | 182 | 1777.8 | 169 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 10 | 4524 | 1.560807314 | 495 | 297 | 2898.5 | 283 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 11 | 6795 | 1.598259438 | 1254 | 436 | 4251.5 | 445 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 12 | 6905 | 1.610608322 | 1384 | 439 | 4287.2 | 488 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 13 | 7423 | 1.611978545 | 1505 | 472 | 4604.9 | 495 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 14 | 7363 | 1.598948946 | 1533 | 472 | 4604.9 | 500 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 15 | 6801 | 1.586350065 | 1410 | 439 | 4287.2 | 490 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 16 | 6010 | 1.580040487 | 1015 | 390 | 3803.7 | 407 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 17 | 5372 | 1.572461435 | 789 | 350 | 3416.3 | 352 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 18 | 4622 | 1.567098393 | 516 | 302 | 2949.4 | 314 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 19 | 6070 | 1.595814602 | 1030 | 390 | 3803.7 | 414 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 20 | 3845 | 1.588908633 | 464 | 248 | 2419.9 | 240 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 21 | 2101 | 1.546786424 | 532 | 139 | 1358.3 | 120 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 22 | 2109 | 1.530034823 | 522 | 141 | 1378.4 | 119 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 23 | 1995 | 1.52394775 | 484 | 134 | 1309.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 0 | 2020 | 1.51118426 | 501 | 137 | 1336.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 1 | 2043 | 1.505859807 | 484 | 139 | 1356.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 2 | 1886 | 1.505067433 | 437 | 128 | 1253.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 3 | 1705 | 1.508582552 | 363 | 116 | 1130.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 4 | 1435 | 1.498068692 | 299 | 98 | 957.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 5 | 1314 | 1.508957281 | 271 | 89 | 870.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 6 | 2021 | 1.494822485 | 409 | 138 | 1352 | 119 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 7 | 2049 | 1.497259773 | 427 | 140 | 1368.5 | 120 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 8 | 2097 | 1.514079422 | 408 | 142 | 1385 | 126 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 9 | 2217 | 1.509600981 | 440 | 150 | 1468.6 | 130 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 10 | 3911 | 1.562962075 | 477 | 256 | 2502.3 | 255 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 11 | 4803 | 1.564393199 | 749 | 315 | 3070.2 | 324 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 12 | 5735 | 1.532275302 | 1111 | 384 | 3742.8 | 407 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 13 | 6312 | 1.495486531 | 1375 | 433 | 4220.7 | 463 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 14 | 6185 | 1.526105409 | 1199 | 415 | 4052.8 | 444 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 15 | 6634 | 1.561345289 | 1363 | 435 | 4248.9 | 469 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 16 | 6006 | 1.593441579 | 1119 | 386 | 3769.2 | 441 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 17 | 5979 | 1.587836941 | 1009 | 386 | 3765.5 | 417 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 18 | 5285 | 1.573666031 | 772 | 344 | 3358.4 | 366 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 19 | 6008 | 1.55053164 | 1139 | 397 | 3874.8 | 429 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 20 | 3333 | 1.503586412 | 443 | 227 | 2216.7 | 225 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 21 | 2060 | 1.486613264 | 381 | 142 | 1385.7 | 120 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 22 | 2072 | 1.474418274 | 371 | 144 | 1405.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 23 | 2057 | 1.484019912 | 385 | 142 | 1386.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 0 | 2053 | 1.471473624 | 379 | 143 | 1395.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 1 | 2062 | 1.476654254 | 372 | 143 | 1396.4 | 119 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 2 | 2046 | 1.480248879 | 367 | 141 | 1382.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 3 | 2051 | 1.496315751 | 368 | 140 | 1370.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 4 | 2031 | 1.498229566 | 359 | 139 | 1355.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 5 | 2030 | 1.477653225 | 358 | 141 | 1373.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 6 | 1958 | 1.442888725 | 344 | 139 | 1357 | 119 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 7 | 1971 | 1.435333528 | 343 | 140 | 1373.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 8 | 2025 | 1.446221968 | 331 | 143 | 1400.2 | 122 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 9 | 2084 | 1.473728873 | 328 | 145 | 1414.1 | 123 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 10 | 2110 | 1.491482293 | 331 | 145 | 1414.7 | 123 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 11 | 2132 | 1.509487397 | 329 | 144 | 1412.4 | 123 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 12 | 2167 | 1.527993231 | 330 | 145 | 1418.2 | 124 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 13 | 3435 | 1.516288514 | 412 | 232 | 2265.4 | 214 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 14 | 2769 | 1.554482681 | 395 | 182 | 1781.3 | 164 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 15 | 3578 | 1.536281666 | 423 | 239 | 2329 | 228 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 16 | 3702 | 1.559130728 | 396 | 243 | 2374.4 | 233 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 17 | 3672 | 1.59575855 | 382 | 236 | 2301.1 | 223 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 18 | 3786 | 1.622594608 | 350 | 239 | 2333.3 | 227 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 19 | 3676 | 1.580259651 | 425 | 238 | 2326.2 | 236 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 20 | 2079 | 1.544002971 | 472 | 138 | 1346.5 | 120 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 21 | 2185 | 1.526690889 | 417 | 146 | 1431.2 | 127 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 22 | 2146 | 1.539675707 | 444 | 143 | 1393.8 | 124 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 23 | 2160 | 1.546170365 | 431 | 143 | 1397 | 124 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 0 | 2176 | 1.552068474 | 437 | 143 | 1402 | 124 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 1 | 2189 | 1.548747701 | 435 | 145 | 1413.4 | 124 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 2 | 2191 | 1.562767475 | 437 | 143 | 1402 | 124 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 3 | 2196 | 1.559991475 | 433 | 144 | 1407.7 | 124 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 4 | 2172 | 1.562365127 | 433 | 142 | 1390.2 | 124 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 5 | 2343 | 1.553919618 | 401 | 154 | 1507.8 | 136 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 6 | 2105 | 1.562268072 | 447 | 138 | 1347.4 | 121 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 7 | 2178 | 1.562858783 | 405 | 143 | 1393.6 | 125 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 8 | 2176 | 1.548644225 | 413 | 144 | 1405.1 | 123 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 9 | 2687 | 1.568501547 | 376 | 175 | 1713.1 | 156 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 10 | 2909 | 1.557113799 | 394 | 191 | 1868.2 | 176 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 11 | 4305 | 1.526433358 | 510 | 289 | 2820.3 | 291 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 12 | 6677 | 1.569655367 | 1322 | 436 | 4253.8 | 472 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 13 | 6897 | 1.570426704 | 1409 | 450 | 4391.8 | 490 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 14 | 7027 | 1.5601341 | 1481 | 462 | 4504.1 | 502 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 15 | 6995 | 1.552305712 | 1478 | 462 | 4506.2 | 502 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 16 | 7087 | 1.574888889 | 1471 | 461 | 4500 | 502 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 17 | 6544 | 1.583085371 | 1293 | 424 | 4133.7 | 465 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 18 | 5408 | 1.572275846 | 736 | 352 | 3439.6 | 379 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 19 | 6271 | 1.567162314 | 1132 | 410 | 4001.5 | 442 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 20 | 4737 | 1.561665513 | 649 | 311 | 3033.3 | 331 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 21 | 2603 | 1.520799252 | 407 | 175 | 1711.6 | 161 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 22 | 2039 | 1.485177362 | 476 | 140 | 1372.9 | 121 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 23 | 2012 | 1.486296816 | 503 | 138 | 1353.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 0 | 2014 | 1.472114612 | 502 | 140 | 1368.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 1 | 2007 | 1.474434323 | 488 | 139 | 1361.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 2 | 1982 | 1.458210712 | 448 | 139 | 1359.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 3 | 1951 | 1.447973876 | 447 | 138 | 1347.4 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 4 | 1952 | 1.464475955 | 437 | 136 | 1332.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 5 | 1978 | 1.460425281 | 430 | 139 | 1354.4 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 6 | 1964 | 1.469839844 | 423 | 137 | 1336.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 7 | 1999 | 1.47691171 | 419 | 138 | 1353.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 8 | 2006 | 1.492781664 | 428 | 137 | 1343.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 9 | 2032 | 1.495987632 | 463 | 139 | 1358.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 10 | 2833 | 1.514568297 | 437 | 191 | 1870.5 | 177 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 11 | 5205 | 1.535805966 | 725 | 347 | 3389.1 | 364 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 12 | 6521 | 1.542738177 | 1369 | 433 | 4226.9 | 470 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 13 | 6516 | 1.542175518 | 1330 | 433 | 4225.2 | 469 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 14 | 6733 | 1.547424789 | 1353 | 446 | 4351.1 | 480 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 15 | 7187 | 1.565761095 | 1491 | 470 | 4590.1 | 508 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 16 | 6718 | 1.506075416 | 1422 | 457 | 4460.6 | 494 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 17 | 5695 | 1.495417903 | 1032 | 390 | 3808.3 | 420 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 18 | 6068 | 1.500902817 | 1148 | 414 | 4042.9 | 449 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 19 | 5040 | 1.467206195 | 803 | 352 | 3435.1 | 379 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 20 | 2797 | 1.429447539 | 393 | 200 | 1956.7 | 196 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 21 | 1894 | 1.380969741 | 459 | 140 | 1371.5 | 121 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 22 | 1971 | 1.403446312 | 443 | 144 | 1404.4 | 124 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 23 | 1979 | 1.431050691 | 461 | 141 | 1382.9 | 122 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 0 | 1999 | 1.445304027 | 475 | 141 | 1383.1 | 120 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 1 | 2039 | 1.486368275 | 448 | 140 | 1371.8 | 121 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 2 | 2044 | 1.49798461 | 436 | 140 | 1364.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 3 | 2074 | 1.524663677 | 429 | 139 | 1360.3 | 120 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 4 | 2123 | 1.569453685 | 446 | 138 | 1352.7 | 120 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 5 | 2206 | 1.617539229 | 462 | 139 | 1363.8 | 121 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 6 | 2294 | 1.696620072 | 443 | 138 | 1352.1 | 121 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 7 | 2523 | 1.748804325 | 440 | 148 | 1442.7 | 129 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 8 | 2899 | 1.762202906 | 383 | 168 | 1645.1 | 151 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 9 | 3399 | 1.758861578 | 349 | 198 | 1932.5 | 185 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 10 | 3560 | 1.707434053 | 364 | 213 | 2085 | 200 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 11 | 5445 | 1.635872014 | 738 | 341 | 3328.5 | 356 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 12 | 6742 | 1.611607783 | 1330 | 429 | 4183.4 | 464 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 13 | 7110 | 1.637531956 | 1385 | 445 | 4341.9 | 484 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 14 | 7460 | 1.650296434 | 1478 | 463 | 4520.4 | 503 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 15 | 6983 | 1.638701805 | 1363 | 437 | 4261.3 | 477 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 16 | 6063 | 1.649751027 | 933 | 377 | 3675.1 | 406 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 17 | 5941 | 1.667274717 | 865 | 365 | 3563.3 | 394 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 18 | 7002 | 1.688653081 | 1223 | 425 | 4146.5 | 461 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 19 | 5918 | 1.681871146 | 890 | 361 | 3518.7 | 393 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 20 | 4316 | 1.644378405 | 464 | 269 | 2624.7 | 276 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 21 | 3127 | 1.627967514 | 380 | 197 | 1920.8 | 189 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 22 | 2264 | 1.597516229 | 435 | 145 | 1417.2 | 127 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 23 | 2141 | 1.563001898 | 479 | 140 | 1369.8 | 120 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 0 | 2146 | 1.564367984 | 476 | 140 | 1371.8 | 121 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 1 | 2244 | 1.569889464 | 424 | 146 | 1429.4 | 128 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 2 | 2120 | 1.559511549 | 469 | 139 | 1359.4 | 120 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 3 | 2129 | 1.566132117 | 456 | 139 | 1359.4 | 120 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 4 | 2120 | 1.556763108 | 438 | 139 | 1361.8 | 120 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 5 | 2152 | 1.574941452 | 456 | 140 | 1366.4 | 120 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 6 | 2139 | 1.585854093 | 408 | 138 | 1348.8 | 120 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 7 | 2230 | 1.595935018 | 415 | 143 | 1397.3 | 124 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 8 | 3093 | 1.615312304 | 427 | 196 | 1914.8 | 184 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 9 | 5100 | 1.631582315 | 722 | 320 | 3125.8 | 335 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 10 | 5429 | 1.592782749 | 814 | 349 | 3408.5 | 377 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 11 | 5377 | 1.587493726 | 765 | 347 | 3387.1 | 378 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 12 | 5756 | 1.621911015 | 894 | 364 | 3548.9 | 394 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 13 | 5455 | 1.569377715 | 855 | 356 | 3475.9 | 387 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 14 | 5582 | 1.577816722 | 895 | 363 | 3537.8 | 394 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 15 | 5676 | 1.571776695 | 946 | 370 | 3611.2 | 402 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 16 | 5533 | 1.560525722 | 911 | 363 | 3545.6 | 394 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 17 | 5404 | 1.552873563 | 866 | 357 | 3480 | 386 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 18 | 6250 | 1.573435376 | 1144 | 407 | 3972.2 | 441 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 19 | 5782 | 1.596972877 | 970 | 371 | 3620.6 | 403 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 20 | 4249 | 1.609530664 | 464 | 270 | 2639.9 | 284 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 21 | 2372 | 1.579543184 | 437 | 154 | 1501.7 | 137 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 22 | 2185 | 1.565522677 | 471 | 143 | 1395.7 | 122 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 23 | 2155 | 1.571616103 | 488 | 140 | 1371.2 | 120 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 0 | 2127 | 1.557101025 | 479 | 140 | 1366 | 120 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 1 | 2114 | 1.529445811 | 476 | 141 | 1382.2 | 120 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 2 | 2112 | 1.529215842 | 461 | 141 | 1381.1 | 120 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 3 | 2120 | 1.550954715 | 464 | 140 | 1366.9 | 120 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 4 | 2564 | 1.571656246 | 383 | 167 | 1631.4 | 148 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 5 | 3704 | 1.589290312 | 382 | 239 | 2330.6 | 227 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 6 | 2305 | 1.571876705 | 456 | 150 | 1466.4 | 146 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 7 | 2122 | 1.559262253 | 484 | 139 | 1360.9 | 121 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 8 | 2339 | 1.563502674 | 426 | 153 | 1496 | 135 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 9 | 3361 | 1.592966491 | 360 | 216 | 2109.9 | 203 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 10 | 4093 | 1.552142586 | 456 | 270 | 2637 | 270 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 11 | 5570 | 1.532746285 | 977 | 372 | 3634 | 399 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 12 | 4336 | 1.530370946 | 617 | 290 | 2833.3 | 304 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 13 | 4604 | 1.527132811 | 621 | 309 | 3014.8 | 321 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 14 | 4924 | 1.543041584 | 651 | 327 | 3191.1 | 347 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 15 | 5297 | 1.57344423 | 690 | 345 | 3366.5 | 372 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 16 | 4899 | 1.580220631 | 601 | 318 | 3100.2 | 336 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 17 | 4229 | 1.584844851 | 475 | 273 | 2668.4 | 278 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 18 | 5153 | 1.599764056 | 628 | 330 | 3221.1 | 352 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 19 | 4281 | 1.459697218 | 545 | 300 | 2932.8 | 316 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 20 | 2038 | 1.354692901 | 424 | 154 | 1504.4 | 140 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 21 | 1892 | 1.354039934 | 433 | 143 | 1397.3 | 124 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 22 | 1931 | 1.386415853 | 442 | 142 | 1392.8 | 122 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 23 | 2221 | 1.448415286 | 412 | 157 | 1533.4 | 138 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 0 | 2246 | 1.500935579 | 425 | 153 | 1496.4 | 138 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 1 | 2087 | 1.509911735 | 453 | 141 | 1382.2 | 121 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 2 | 2165 | 1.532417894 | 404 | 145 | 1412.8 | 121 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 3 | 2206 | 1.54970144 | 410 | 146 | 1423.5 | 121 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 4 | 2416 | 1.56001808 | 384 | 158 | 1548.7 | 136 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 5 | 2970 | 1.554241457 | 353 | 196 | 1910.9 | 176 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 6 | 2103 | 1.482447483 | 421 | 145 | 1418.6 | 129 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 7 | 3165 | 1.473395093 | 485 | 220 | 2148.1 | 208 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 8 | 5772 | 1.528318373 | 1091 | 387 | 3776.7 | 412 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 9 | 5719 | 1.551798991 | 998 | 378 | 3685.4 | 410 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 10 | 5376 | 1.560884966 | 802 | 353 | 3444.2 | 383 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 11 | 6269 | 1.574453123 | 1106 | 408 | 3981.7 | 441 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 12 | 6913 | 1.593003963 | 1397 | 445 | 4339.6 | 487 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 13 | 6644 | 1.579347723 | 1291 | 431 | 4206.8 | 469 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 14 | 6252 | 1.541990381 | 1179 | 416 | 4054.5 | 452 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 15 | 6319 | 1.537918614 | 1195 | 421 | 4108.8 | 457 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 16 | 6418 | 1.542899728 | 1281 | 426 | 4159.7 | 465 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 17 | 6953 | 1.574787099 | 1395 | 453 | 4415.2 | 493 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 18 | 6479 | 1.593340383 | 1158 | 417 | 4066.3 | 453 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 19 | 5839 | 1.596009293 | 925 | 375 | 3658.5 | 408 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 20 | 5071 | 1.57123381 | 690 | 331 | 3227.4 | 354 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 21 | 4233 | 1.581483972 | 471 | 274 | 2676.6 | 282 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 22 | 4323 | 1.587762148 | 481 | 279 | 2722.7 | 283 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 23 | 2321 | 1.550434202 | 411 | 153 | 1497 | 138 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 0 | 2149 | 1.562454559 | 508 | 141 | 1375.4 | 120 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 1 | 2142 | 1.559065434 | 519 | 141 | 1373.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 2 | 2129 | 1.561079337 | 512 | 139 | 1363.8 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 3 | 2152 | 1.568398805 | 498 | 140 | 1372.1 | 120 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 4 | 2553 | 1.578752087 | 397 | 165 | 1617.1 | 148 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 5 | 3696 | 1.602636372 | 389 | 236 | 2306.2 | 231 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 6 | 3701 | 1.606545991 | 373 | 236 | 2303.7 | 236 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 7 | 3726 | 1.605065909 | 366 | 238 | 2321.4 | 234 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 8 | 3046 | 1.608321453 | 314 | 194 | 1893.9 | 184 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 9 | 2281 | 1.592654657 | 432 | 146 | 1432.2 | 130 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 10 | 2174 | 1.583394028 | 498 | 140 | 1373 | 120 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 11 | 2613 | 1.600906752 | 355 | 167 | 1632.2 | 150 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 12 | 3902 | 1.598983732 | 453 | 250 | 2440.3 | 245 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 13 | 4493 | 1.563489578 | 566 | 294 | 2873.7 | 303 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 14 | 5455 | 1.613094006 | 716 | 347 | 3381.7 | 370 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 15 | 5353 | 1.623203348 | 679 | 338 | 3297.8 | 361 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 16 | 5415 | 1.642601468 | 682 | 338 | 3296.6 | 363 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 17 | 5924 | 1.665729389 | 775 | 364 | 3556.4 | 392 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 18 | 7171 | 1.648051112 | 1435 | 446 | 4351.2 | 482 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 19 | 7298 | 1.643841788 | 1562 | 455 | 4439.6 | 501 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 20 | 5749 | 1.646523084 | 939 | 358 | 3491.6 | 393 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 21 | 4427 | 1.649895647 | 520 | 275 | 2683.2 | 290 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 22 | 2877 | 1.633081682 | 248 | 180 | 1761.7 | 165 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 23 | 2194 | 1.606737459 | 456 | 140 | 1365.5 | 120 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 0 | 2223 | 1.608887602 | 431 | 141 | 1381.7 | 121 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 1 | 2297 | 1.609670638 | 419 | 146 | 1427 | 125 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 2 | 2187 | 1.613069774 | 442 | 139 | 1355.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 3 | 2186 | 1.606289955 | 430 | 139 | 1360.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 4 | 2163 | 1.620467486 | 412 | 137 | 1334.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 5 | 2163 | 1.609614526 | 419 | 137 | 1343.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 6 | 2218 | 1.618623659 | 368 | 140 | 1370.3 | 123 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 7 | 3050 | 1.646068325 | 392 | 190 | 1852.9 | 180 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 8 | 4550 | 1.667827426 | 515 | 279 | 2728.1 | 280 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 9 | 4447 | 1.655560106 | 467 | 275 | 2686.1 | 276 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 10 | 4592 | 1.667513981 | 470 | 282 | 2753.8 | 286 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 11 | 5883 | 1.682251008 | 800 | 358 | 3497.1 | 386 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 12 | 6491 | 1.662909259 | 1194 | 400 | 3903.4 | 430 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 13 | 6470 | 1.653716389 | 1122 | 401 | 3912.4 | 432 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 14 | 6766 | 1.664903172 | 1320 | 417 | 4063.9 | 451 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 15 | 6355 | 1.673249078 | 1055 | 389 | 3798 | 420 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 16 | 5837 | 1.678504673 | 845 | 356 | 3477.5 | 386 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 17 | 5731 | 1.659860399 | 845 | 354 | 3452.7 | 383 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 18 | 5655 | 1.661378459 | 823 | 349 | 3403.8 | 380 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 19 | 4823 | 1.650412346 | 616 | 299 | 2922.3 | 322 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 20 | 2522 | 1.609547514 | 451 | 160 | 1566.9 | 148 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 21 | 2100 | 1.575512041 | 373 | 136 | 1332.9 | 120 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 22 | 2171 | 1.590126712 | 421 | 140 | 1365.3 | 120 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 23 | 2165 | 1.601805268 | 427 | 138 | 1351.6 | 120 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 0 | 2168 | 1.594469368 | 398 | 139 | 1359.7 | 120 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 1 | 2157 | 1.600504563 | 378 | 138 | 1347.7 | 120 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 2 | 2139 | 1.593889717 | 371 | 137 | 1342 | 120 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 3 | 2158 | 1.579448145 | 401 | 140 | 1366.3 | 120 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 4 | 2130 | 1.582466568 | 401 | 138 | 1346 | 120 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 5 | 2214 | 1.585392052 | 400 | 143 | 1396.5 | 126 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 6 | 2166 | 1.573327522 | 397 | 141 | 1376.7 | 123 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 7 | 2735 | 1.581564795 | 399 | 177 | 1729.3 | 162 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 8 | 3652 | 1.593994151 | 403 | 235 | 2291.1 | 229 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 9 | 5091 | 1.63361571 | 638 | 319 | 3116.4 | 337 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 10 | 4497 | 1.625460854 | 511 | 283 | 2766.6 | 292 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 11 | 6031 | 1.64516217 | 912 | 376 | 3665.9 | 408 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 12 | 6613 | 1.661724796 | 1205 | 408 | 3979.6 | 447 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 13 | 7002 | 1.669726958 | 1341 | 430 | 4193.5 | 472 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 14 | 7152 | 1.651846548 | 1363 | 444 | 4329.7 | 485 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 15 | 7199 | 1.661128802 | 1391 | 444 | 4333.8 | 486 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 16 | 7060 | 1.654441919 | 1344 | 437 | 4267.3 | 478 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 17 | 6409 | 1.649126418 | 1115 | 398 | 3886.3 | 437 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 18 | 6444 | 1.664256198 | 1091 | 397 | 3872 | 437 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 19 | 6078 | 1.655454174 | 976 | 376 | 3671.5 | 415 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 20 | 5838 | 1.673067003 | 844 | 358 | 3489.4 | 393 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 21 | 5037 | 1.694704259 | 633 | 304 | 2972.2 | 331 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 22 | 4580 | 1.690411161 | 490 | 278 | 2709.4 | 293 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 23 | 3260 | 1.659117512 | 379 | 201 | 1964.9 | 196 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 0 | 2178 | 1.63403106 | 477 | 136 | 1332.9 | 121 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 1 | 2189 | 1.623164763 | 469 | 138 | 1348.6 | 121 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 2 | 2175 | 1.605877141 | 471 | 139 | 1354.4 | 121 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 3 | 2167 | 1.603047788 | 467 | 138 | 1351.8 | 121 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 4 | 2127 | 1.584711667 | 428 | 137 | 1342.2 | 121 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 5 | 2135 | 1.574599897 | 413 | 139 | 1355.9 | 121 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 6 | 2137 | 1.552600988 | 379 | 141 | 1376.4 | 124 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 7 | 3408 | 1.574206661 | 424 | 222 | 2164.9 | 215 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 8 | 5168 | 1.592996733 | 707 | 332 | 3244.2 | 353 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 9 | 6094 | 1.610635374 | 1131 | 388 | 3783.6 | 423 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 10 | 6299 | 1.623202598 | 1168 | 398 | 3880.6 | 438 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 11 | 6775 | 1.643699355 | 1331 | 422 | 4121.8 | 466 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 12 | 7201 | 1.667747464 | 1407 | 443 | 4317.8 | 489 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 13 | 7579 | 1.68827408 | 1508 | 460 | 4489.2 | 506 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 14 | 7665 | 1.711013885 | 1447 | 459 | 4479.8 | 506 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 15 | 7639 | 1.714856553 | 1412 | 457 | 4454.6 | 506 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 16 | 7595 | 1.708738301 | 1422 | 456 | 4444.8 | 506 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 17 | 7629 | 1.70778116 | 1438 | 458 | 4467.2 | 506 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 18 | 7306 | 1.720718811 | 1346 | 435 | 4245.9 | 485 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 19 | 6310 | 1.70840666 | 971 | 379 | 3693.5 | 420 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 20 | 5792 | 1.682693704 | 802 | 353 | 3442.1 | 389 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 21 | 5067 | 1.66387548 | 621 | 312 | 3045.3 | 338 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 22 | 4728 | 1.630401048 | 530 | 297 | 2899.9 | 316 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 23 | 3993 | 1.60761736 | 404 | 254 | 2483.8 | 261 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 0 | 2528 | 1.614303959 | 388 | 160 | 1566 | 150 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 1 | 2186 | 1.600878799 | 439 | 140 | 1365.5 | 122 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 2 | 2149 | 1.604210212 | 466 | 137 | 1339.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 3 | 2158 | 1.601603087 | 459 | 138 | 1347.4 | 119 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 4 | 2122 | 1.580868658 | 417 | 137 | 1342.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 5 | 2119 | 1.574411175 | 399 | 138 | 1345.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 6 | 2071 | 1.559487952 | 385 | 136 | 1328 | 119 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 7 | 3220 | 1.585113715 | 406 | 208 | 2031.4 | 202 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 8 | 5207 | 1.581232918 | 711 | 337 | 3293 | 360 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 9 | 6581 | 1.594582152 | 1308 | 423 | 4127.1 | 464 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 10 | 6802 | 1.622266212 | 1345 | 430 | 4192.9 | 475 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 11 | 7333 | 1.642586744 | 1459 | 458 | 4464.3 | 504 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 12 | 7636 | 1.662747147 | 1547 | 471 | 4592.4 | 516 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 13 | 7700 | 1.672168172 | 1538 | 472 | 4604.8 | 516 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 14 | 7711 | 1.678457152 | 1539 | 471 | 4594.1 | 517 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 15 | 7752 | 1.682839466 | 1538 | 472 | 4606.5 | 516 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 16 | 7811 | 1.693221478 | 1545 | 473 | 4613.1 | 516 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 17 | 7755 | 1.684880614 | 1546 | 472 | 4602.7 | 516 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 18 | 7659 | 1.672891685 | 1533 | 469 | 4578.3 | 516 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 19 | 7650 | 1.675170254 | 1525 | 468 | 4566.7 | 516 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 20 | 6820 | 1.664551401 | 1253 | 420 | 4097.2 | 464 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 21 | 5685 | 1.65026561 | 809 | 353 | 3444.9 | 385 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 22 | 5659 | 1.647356777 | 831 | 352 | 3435.2 | 381 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 23 | 4138 | 1.640175988 | 421 | 258 | 2522.9 | 266 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 0 | 2575 | 1.620210155 | 403 | 163 | 1589.3 | 151 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 1 | 2271 | 1.596036264 | 402 | 146 | 1422.9 | 124 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 2 | 2215 | 1.594213329 | 432 | 142 | 1389.4 | 120 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 3 | 2206 | 1.565094005 | 429 | 144 | 1409.5 | 121 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 4 | 2425 | 1.550412378 | 351 | 160 | 1564.1 | 138 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 5 | 3231 | 1.562076968 | 380 | 212 | 2068.4 | 202 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 6 | 4235 | 1.58917783 | 506 | 273 | 2664.9 | 280 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 7 | 4987 | 1.618840486 | 597 | 316 | 3080.6 | 337 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 8 | 5336 | 1.618932039 | 685 | 338 | 3296 | 367 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 9 | 6371 | 1.624384896 | 1149 | 402 | 3922.1 | 442 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 10 | 6702 | 1.609471434 | 1303 | 427 | 4164.1 | 470 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 11 | 6740 | 1.602282182 | 1274 | 431 | 4206.5 | 471 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 12 | 7390 | 1.616607967 | 1513 | 469 | 4571.3 | 512 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 13 | 7310 | 1.607724114 | 1491 | 466 | 4546.8 | 511 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 14 | 7327 | 1.609268614 | 1484 | 467 | 4553 | 511 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 15 | 7360 | 1.619183808 | 1472 | 466 | 4545.5 | 511 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 16 | 7305 | 1.605741543 | 1487 | 466 | 4549.3 | 511 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 17 | 7286 | 1.601002 | 1479 | 466 | 4550.9 | 511 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 18 | 7307 | 1.605016913 | 1484 | 467 | 4552.6 | 511 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 19 | 7122 | 1.608909773 | 1425 | 454 | 4426.6 | 499 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 20 | 5810 | 1.617123135 | 880 | 368 | 3592.8 | 402 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 21 | 4693 | 1.628383067 | 553 | 295 | 2882 | 312 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 22 | 4132 | 1.62824605 | 433 | 260 | 2537.7 | 263 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 23 | 2741 | 1.616060374 | 381 | 174 | 1696.1 | 160 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 0 | 2194 | 1.584916564 | 465 | 142 | 1384.3 | 120 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 1 | 2132 | 1.587845386 | 482 | 137 | 1342.7 | 119 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 2 | 2122 | 1.574067206 | 486 | 138 | 1348.1 | 119 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 3 | 2120 | 1.587420442 | 447 | 137 | 1335.5 | 119 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 4 | 2109 | 1.586191336 | 418 | 136 | 1329.6 | 120 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 5 | 3047 | 1.588965373 | 425 | 196 | 1917.6 | 194 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 6 | 3579 | 1.58953633 | 394 | 231 | 2251.6 | 231 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 7 | 5069 | 1.604824922 | 612 | 324 | 3158.6 | 342 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 8 | 6655 | 1.609937828 | 1281 | 424 | 4133.7 | 463 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 9 | 6838 | 1.616472034 | 1412 | 434 | 4230.2 | 477 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 10 | 6854 | 1.605565837 | 1442 | 438 | 4268.9 | 478 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 11 | 7074 | 1.58159501 | 1578 | 458 | 4472.7 | 502 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 12 | 7092 | 1.56362995 | 1437 | 465 | 4535.6 | 506 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 13 | 7142 | 1.57032607 | 1432 | 466 | 4548.1 | 507 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 14 | 6975 | 1.547867383 | 1405 | 462 | 4506.2 | 499 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 15 | 6778 | 1.52661096 | 1385 | 455 | 4439.9 | 495 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 16 | 6551 | 1.512444013 | 1342 | 444 | 4331.4 | 484 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 17 | 5249 | 1.503451436 | 834 | 358 | 3491.3 | 386 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 18 | 6456 | 1.526890876 | 1293 | 433 | 4228.2 | 471 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 19 | 5914 | 1.510716019 | 1103 | 401 | 3914.7 | 438 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 20 | 5299 | 1.537858781 | 771 | 353 | 3445.7 | 385 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 21 | 5205 | 1.557543839 | 748 | 342 | 3341.8 | 369 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 22 | 3262 | 1.566537002 | 358 | 213 | 2082.3 | 211 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 23 | 2815 | 1.560767354 | 238 | 185 | 1803.6 | 173 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 0 | 2016 | 1.533779671 | 507 | 134 | 1314.4 | 119 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 1 | 2003 | 1.518344451 | 496 | 135 | 1319.2 | 119 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 2 | 1959 | 1.465549488 | 525 | 137 | 1336.7 | 119 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 3 | 1941 | 1.424587156 | 512 | 139 | 1362.5 | 119 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 4 | 1887 | 1.386990077 | 504 | 139 | 1360.5 | 119 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 5 | 2038 | 1.38601741 | 452 | 150 | 1470.4 | 128 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 6 | 1981 | 1.425179856 | 486 | 142 | 1390 | 124 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 7 | 3177 | 1.479739171 | 461 | 220 | 2147 | 212 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 8 | 4640 | 1.519418429 | 619 | 313 | 3053.8 | 327 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 9 | 6365 | 1.546066215 | 1235 | 422 | 4116.9 | 462 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 10 | 6504 | 1.537043602 | 1320 | 434 | 4231.5 | 475 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 11 | 6857 | 1.49393233 | 1482 | 470 | 4589.9 | 516 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 12 | 6617 | 1.434642153 | 1466 | 473 | 4612.3 | 516 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 13 | 6584 | 1.447001165 | 1437 | 466 | 4550.1 | 506 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 14 | 6705 | 1.471588789 | 1458 | 467 | 4556.3 | 507 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 15 | 6766 | 1.486869575 | 1469 | 466 | 4550.5 | 506 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 16 | 6872 | 1.513623048 | 1471 | 465 | 4540.1 | 506 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 17 | 6751 | 1.595566165 | 1328 | 434 | 4231.1 | 473 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 18 | 6442 | 1.701891578 | 1063 | 388 | 3785.2 | 424 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 19 | 6561 | 1.74699116 | 984 | 385 | 3755.6 | 420 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 20 | 6538 | 1.779967875 | 1028 | 376 | 3673.1 | 413 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 21 | 3400 | 1.734870905 | 405 | 201 | 1959.8 | 195 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 22 | 2303 | 1.679305819 | 453 | 140 | 1371.4 | 120 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 23 | 2316 | 1.699691766 | 441 | 139 | 1362.6 | 120 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 0 | 2343 | 1.699057288 | 438 | 141 | 1379 | 121 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 1 | 2357 | 1.702050838 | 445 | 142 | 1384.8 | 120 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 2 | 2339 | 1.703941138 | 443 | 140 | 1372.7 | 120 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 3 | 2358 | 1.697379787 | 536 | 142 | 1389.2 | 120 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 4 | 2390 | 1.722646677 | 453 | 142 | 1387.4 | 123 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 5 | 2401 | 1.720037252 | 569 | 143 | 1395.9 | 122 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 6 | 2822 | 1.776742429 | 551 | 163 | 1588.3 | 147 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 7 | 3601 | 1.789050079 | 535 | 206 | 2012.8 | 195 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 8 | 5949 | 1.799401107 | 929 | 339 | 3306.1 | 360 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 9 | 7079 | 1.820028281 | 1166 | 399 | 3889.5 | 439 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 10 | 7452 | 1.805057649 | 1259 | 423 | 4128.4 | 465 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 11 | 8051 | 1.793255524 | 1459 | 460 | 4489.6 | 508 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 12 | 8002 | 1.759106597 | 1446 | 466 | 4548.9 | 511 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 13 | 8077 | 1.773839329 | 1443 | 467 | 4553.4 | 511 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 14 | 8378 | 1.832739046 | 1481 | 469 | 4571.3 | 511 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 15 | 8334 | 1.823113775 | 1490 | 469 | 4571.3 | 511 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 16 | 8265 | 1.811348046 | 1478 | 468 | 4562.9 | 511 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 17 | 8170 | 1.79916318 | 1480 | 465 | 4541 | 511 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 18 | 8216 | 1.811287478 | 1478 | 465 | 4536 | 511 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 19 | 8220 | 1.864368337 | 1432 | 452 | 4409 | 501 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 20 | 7794 | 1.868034417 | 1293 | 428 | 4172.3 | 473 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 21 | 6372 | 1.841724955 | 861 | 355 | 3459.8 | 389 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 22 | 4880 | 1.800937373 | 493 | 278 | 2709.7 | 292 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 23 | 3037 | 1.746606855 | 394 | 178 | 1738.8 | 164 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 0 | 2373 | 1.727577169 | 489 | 140 | 1373.6 | 119 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 1 | 2406 | 1.739067582 | 489 | 142 | 1383.5 | 119 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 2 | 2417 | 1.766554597 | 502 | 140 | 1368.2 | 119 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 3 | 2429 | 1.757597685 | 497 | 141 | 1382 | 119 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 4 | 2406 | 1.774990778 | 478 | 139 | 1355.5 | 119 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 5 | 3232 | 1.805284031 | 447 | 183 | 1790.3 | 179 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 6 | 5151 | 1.816931217 | 575 | 290 | 2835 | 303 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 7 | 5662 | 1.793134026 | 622 | 324 | 3157.6 | 349 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 8 | 6429 | 1.781626715 | 851 | 370 | 3608.5 | 406 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 9 | 7274 | 1.780922535 | 1245 | 419 | 4084.4 | 460 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 10 | 7600 | 1.819357001 | 1269 | 428 | 4177.3 | 472 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 11 | 7822 | 1.830906793 | 1328 | 438 | 4272.2 | 484 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 12 | 8423 | 1.834956321 | 1487 | 471 | 4590.3 | 515 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 13 | 8306 | 1.816035158 | 1477 | 469 | 4573.7 | 513 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 14 | 8372 | 1.844337233 | 1457 | 465 | 4539.3 | 512 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 15 | 8363 | 1.839194212 | 1459 | 466 | 4547.1 | 512 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 16 | 8210 | 1.811602198 | 1468 | 465 | 4531.9 | 512 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 17 | 7818 | 1.773673942 | 1401 | 452 | 4407.8 | 498 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 18 | 7521 | 1.752044168 | 1382 | 440 | 4292.7 | 488 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 19 | 7121 | 1.693862988 | 1362 | 431 | 4204 | 478 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 20 | 5831 | 1.585717394 | 1014 | 377 | 3677.2 | 414 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 21 | 5406 | 1.539556872 | 884 | 360 | 3511.4 | 393 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 22 | 5025 | 1.541316484 | 769 | 334 | 3260.2 | 363 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 23 | 3084 | 1.528473014 | 351 | 207 | 2017.7 | 201 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 0 | 2145 | 1.558866279 | 506 | 141 | 1376 | 123 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 1 | 2159 | 1.601394452 | 524 | 138 | 1348.2 | 120 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 2 | 2136 | 1.580934054 | 520 | 138 | 1351.1 | 120 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 3 | 2126 | 1.56300544 | 516 | 139 | 1360.2 | 120 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 4 | 2091 | 1.552223294 | 502 | 138 | 1347.1 | 120 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 5 | 2119 | 1.573008685 | 501 | 138 | 1347.1 | 120 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 6 | 2112 | 1.588686626 | 471 | 136 | 1329.4 | 120 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 7 | 2982 | 1.628529299 | 413 | 187 | 1831.1 | 175 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 8 | 5080 | 1.679783083 | 620 | 310 | 3024.2 | 321 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 9 | 6452 | 1.689801477 | 1130 | 391 | 3818.2 | 427 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 10 | 6905 | 1.689048702 | 1295 | 419 | 4088.1 | 458 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 11 | 7646 | 1.6999044 | 1538 | 461 | 4497.9 | 506 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 12 | 7574 | 1.653242529 | 1571 | 470 | 4581.3 | 512 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 13 | 7422 | 1.617099157 | 1569 | 470 | 4589.7 | 512 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 14 | 7373 | 1.614938123 | 1570 | 468 | 4565.5 | 512 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 15 | 7389 | 1.60766737 | 1608 | 471 | 4596.1 | 512 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 16 | 7211 | 1.572188549 | 1609 | 470 | 4586.6 | 512 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 17 | 6959 | 1.525527764 | 1637 | 468 | 4561.7 | 511 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 18 | 6756 | 1.517145359 | 1576 | 456 | 4453.1 | 502 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 19 | 6251 | 1.524002243 | 1361 | 420 | 4101.7 | 464 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 20 | 5411 | 1.535296788 | 926 | 361 | 3524.4 | 394 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 21 | 5123 | 1.581026448 | 661 | 332 | 3240.3 | 362 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 22 | 4326 | 1.552931041 | 520 | 285 | 2785.7 | 301 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 23 | 2456 | 1.526888405 | 381 | 165 | 1608.5 | 153 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 0 | 2109 | 1.496593812 | 463 | 144 | 1409.2 | 124 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 1 | 2044 | 1.483093891 | 498 | 141 | 1378.2 | 120 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 2 | 2033 | 1.4794062 | 500 | 141 | 1374.2 | 120 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 3 | 1988 | 1.456730417 | 502 | 140 | 1364.7 | 120 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 4 | 1939 | 1.430468462 | 466 | 139 | 1355.5 | 120 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 5 | 1923 | 1.414906924 | 467 | 139 | 1359.1 | 120 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 6 | 1881 | 1.399033098 | 431 | 137 | 1344.5 | 120 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 7 | 2306 | 1.411779111 | 388 | 167 | 1633.4 | 151 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 8 | 4412 | 1.468610612 | 648 | 308 | 3004.2 | 316 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 9 | 5635 | 1.482465602 | 1235 | 390 | 3801.1 | 420 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 10 | 6010 | 1.497968645 | 1243 | 411 | 4012.1 | 445 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 11 | 6927 | 1.520980173 | 1594 | 467 | 4554.3 | 506 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 12 | 6900 | 1.521734336 | 1582 | 465 | 4534.3 | 506 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 13 | 6908 | 1.508955876 | 1584 | 469 | 4578 | 506 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 14 | 6939 | 1.511731771 | 1592 | 470 | 4590.1 | 506 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 15 | 7069 | 1.565427287 | 1557 | 463 | 4515.7 | 502 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 16 | 7112 | 1.640107926 | 1439 | 444 | 4336.3 | 481 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 17 | 6892 | 1.710301015 | 1257 | 413 | 4029.7 | 448 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 18 | 6296 | 1.760134191 | 922 | 367 | 3577 | 397 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 19 | 6355 | 1.793778932 | 907 | 363 | 3542.8 | 394 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 20 | 5411 | 1.796361463 | 590 | 309 | 3012.2 | 329 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 21 | 3033 | 1.749336717 | 322 | 177 | 1733.8 | 166 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 22 | 2686 | 1.702586207 | 383 | 161 | 1577.6 | 143 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 23 | 2299 | 1.674923503 | 480 | 140 | 1372.6 | 122 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 0 | 2247 | 1.653664999 | 478 | 139 | 1358.8 | 120 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 1 | 2242 | 1.646108664 | 476 | 139 | 1362 | 120 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 2 | 2249 | 1.663707649 | 475 | 138 | 1351.8 | 120 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 3 | 2268 | 1.670964415 | 483 | 139 | 1357.3 | 120 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 4 | 2625 | 1.715237846 | 434 | 157 | 1530.4 | 140 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 5 | 3837 | 1.761384502 | 394 | 223 | 2178.4 | 217 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 6 | 4980 | 1.79569466 | 563 | 284 | 2773.3 | 300 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 7 | 6110 | 1.804595664 | 748 | 347 | 3385.8 | 379 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 8 | 6715 | 1.781876078 | 1115 | 386 | 3768.5 | 424 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 9 | 6967 | 1.786868428 | 1232 | 400 | 3899 | 441 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 10 | 6928 | 1.781114225 | 1170 | 399 | 3889.7 | 439 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 11 | 7759 | 1.794278843 | 1435 | 443 | 4324.3 | 490 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 12 | 7862 | 1.810769727 | 1463 | 445 | 4341.8 | 492 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 13 | 7887 | 1.852539108 | 1404 | 436 | 4257.4 | 486 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 14 | 8158 | 1.896371371 | 1428 | 441 | 4301.9 | 485 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 15 | 8445 | 1.962173842 | 1420 | 441 | 4303.9 | 485 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 16 | 8613 | 1.999860685 | 1421 | 441 | 4306.8 | 485 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 17 | 7935 | 2.053784036 | 1193 | 396 | 3863.6 | 436 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 18 | 8589 | 2.071135761 | 1298 | 425 | 4147 | 465 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 19 | 8264 | 2.080930678 | 1258 | 407 | 3971.3 | 448 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 20 | 7053 | 2.04422932 | 883 | 354 | 3450.2 | 388 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 21 | 5773 | 1.982826722 | 564 | 298 | 2911.5 | 318 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 22 | 3924 | 1.872137405 | 358 | 215 | 2096 | 212 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 23 | 2461 | 1.73799435 | 451 | 145 | 1416 | 129 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 0 | 2285 | 1.682745416 | 487 | 139 | 1357.9 | 120 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 1 | 2247 | 1.645912687 | 495 | 140 | 1365.2 | 120 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 2 | 2222 | 1.629988263 | 492 | 139 | 1363.2 | 120 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 3 | 2208 | 1.628919218 | 490 | 139 | 1355.5 | 120 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 4 | 2211 | 1.60952173 | 457 | 140 | 1373.7 | 122 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 5 | 3327 | 1.630163163 | 377 | 209 | 2040.9 | 203 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 6 | 2897 | 1.584532079 | 407 | 187 | 1828.3 | 187 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 7 | 2311 | 1.562225377 | 412 | 151 | 1479.3 | 133 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 8 | 2587 | 1.576669917 | 421 | 168 | 1640.8 | 151 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 9 | 4193 | 1.633869774 | 456 | 263 | 2566.3 | 263 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 10 | 6044 | 1.722378958 | 986 | 360 | 3509.1 | 389 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 11 | 7091 | 1.687810916 | 1331 | 431 | 4201.3 | 472 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 12 | 7433 | 1.673985992 | 1452 | 455 | 4440.3 | 498 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 13 | 7498 | 1.673922265 | 1460 | 459 | 4479.3 | 501 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 14 | 7548 | 1.683205852 | 1452 | 460 | 4484.3 | 502 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 15 | 7568 | 1.687402453 | 1448 | 460 | 4485 | 501 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 16 | 7190 | 1.683801316 | 1357 | 438 | 4270.1 | 481 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 17 | 6618 | 1.691934041 | 1110 | 401 | 3911.5 | 438 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 18 | 6681 | 1.690151534 | 1083 | 405 | 3952.9 | 443 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 19 | 6451 | 1.668347687 | 1078 | 396 | 3866.7 | 438 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 20 | 5591 | 1.60306219 | 816 | 357 | 3487.7 | 394 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 21 | 4843 | 1.536387285 | 643 | 323 | 3152.2 | 352 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 22 | 3493 | 1.479332543 | 441 | 242 | 2361.2 | 251 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 23 | 1849 | 1.368717152 | 366 | 138 | 1350.9 | 122 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 0 | 1828 | 1.355278766 | 387 | 138 | 1348.8 | 121 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 1 | 1846 | 1.36447631 | 466 | 138 | 1352.9 | 121 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 2 | 1868 | 1.375653583 | 468 | 139 | 1357.9 | 121 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 3 | 1889 | 1.387032822 | 478 | 139 | 1361.9 | 121 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 4 | 1880 | 1.390224063 | 476 | 138 | 1352.3 | 121 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 5 | 1981 | 1.402180068 | 418 | 145 | 1412.8 | 128 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 6 | 1873 | 1.420015163 | 447 | 135 | 1319 | 120 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 7 | 1895 | 1.410915047 | 441 | 137 | 1343.1 | 120 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 8 | 1915 | 1.437040372 | 454 | 136 | 1332.6 | 120 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 9 | 1937 | 1.437263486 | 451 | 138 | 1347.7 | 120 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 10 | 1944 | 1.440426793 | 450 | 138 | 1349.6 | 120 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 11 | 1946 | 1.432040621 | 444 | 139 | 1358.9 | 120 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 12 | 1946 | 1.418677553 | 444 | 140 | 1371.7 | 120 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 13 | 1964 | 1.418357767 | 433 | 142 | 1384.7 | 124 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 14 | 3060 | 1.44530512 | 372 | 217 | 2117.2 | 205 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 15 | 3685 | 1.474648845 | 447 | 256 | 2498.9 | 255 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 16 | 2834 | 1.450506705 | 328 | 200 | 1953.8 | 191 |

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| FL | Crystal River | 2 | 2013 | 11/3/2013 | 6 | 2203 | 1.747580517 | 554 | 129 | 1260.6 | 119 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 7 | 2417 | 1.746008813 | 476 | 142 | 1384.3 | 135 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 8 | 3347 | 1.762228189 | 298 | 194 | 1899.3 | 192 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 9 | 4358 | 1.778194875 | 362 | 251 | 2450.8 | 251 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 10 | 5202 | 1.764705882 | 507 | 302 | 2947.8 | 312 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 11 | 5844 | 1.753217532 | 666 | 342 | 3333.3 | 366 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 12 | 6785 | 1.774969916 | 906 | 392 | 3822.6 | 425 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 13 | 7081 | 1.778341454 | 983 | 408 | 3981.8 | 446 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 14 | 7291 | 1.77051967 | 1107 | 422 | 4118 | 458 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 15 | 7493 | 1.782901468 | 1231 | 431 | 4202.7 | 469 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 16 | 7730 | 1.784559978 | 1260 | 444 | 4331.6 | 484 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 17 | 7849 | 1.785121335 | 1301 | 451 | 4396.9 | 492 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 18 | 7963 | 1.798572526 | 1306 | 454 | 4427.4 | 495 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 19 | 7931 | 1.791911432 | 1310 | 454 | 4426 | 495 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 20 | 7938 | 1.792237701 | 1306 | 454 | 4429.1 | 495 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 21 | 7154 | 1.788365873 | 1068 | 410 | 4000.3 | 452 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 22 | 5044 | 1.782395138 | 563 | 290 | 2829.9 | 315 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 23 | 2371 | 1.75097851 | 585 | 138 | 1354.1 | 131 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 0 | 2215 | 1.744231829 | 603 | 130 | 1269.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 1 | 2234 | 1.754909662 | 604 | 130 | 1273 | 119 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 2 | 2255 | 1.771127867 | 607 | 130 | 1273.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 3 | 2254 | 1.769369652 | 591 | 130 | 1273.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 4 | 2260 | 1.765073415 | 573 | 131 | 1280.4 | 119 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 5 | 2262 | 1.754984871 | 560 | 132 | 1288.9 | 120 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 6 | 5030 | 1.810981098 | 527 | 285 | 2777.5 | 291 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 7 | 7904 | 1.838438816 | 1444 | 441 | 4299.3 | 472 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 8 | 7873 | 1.845609264 | 1441 | 437 | 4265.8 | 475 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 9 | 7798 | 1.836465546 | 1511 | 435 | 4246.2 | 476 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 10 | 7775 | 1.822678576 | 1493 | 437 | 4265.7 | 476 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 11 | 7708 | 1.817924528 | 1509 | 435 | 4240 | 476 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 12 | 7588 | 1.776716306 | 1511 | 438 | 4270.8 | 476 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 13 | 7419 | 1.752202357 | 1515 | 434 | 4234.1 | 476 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 14 | 7348 | 1.728249877 | 1539 | 436 | 4251.7 | 476 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 15 | 7341 | 1.713665437 | 1542 | 439 | 4283.8 | 476 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 16 | 5402 | 1.650977995 | 808 | 335 | 3272 | 362 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 17 | 3525 | 1.4688112 | 388 | 246 | 2399.9 | 247 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 18 | 4235 | 1.258730866 | 595 | 345 | 3364.5 | 368 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 19 | 2982 | 1.071274608 | 420 | 285 | 2783.6 | 298 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 20 | 1374 | 0.927438407 | 445 | 152 | 1481.5 | 144 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 21 | 1086 | 0.836092078 | 601 | 133 | 1298.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 22 | 1019 | 0.778932885 | 613 | 134 | 1308.2 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|---------|-----|
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 23 | 965 | 0.735350149 | 628 | 134 | 1312.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 0 | 932 | 0.711287491 | 635 | 134 | 1310.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 1 | 905 | 0.690839695 | 627 | 134 | 1310 | 119 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 2 | 899 | 0.684222544 | 624 | 134 | 1313.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 3 | 894 | 0.675736961 | 624 | 135 | 1323 | 119 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 4 | 885 | 0.678576905 | 614 | 133 | 1304.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 5 | 889 | 0.677953176 | 613 | 134 | 1311.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 6 | 954 | 0.680699251 | 512 | 143 | 1401.5 | 127 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 7 | 992 | 0.684137931 | 462 | 148 | 1450 | 136 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 8 | 1573 | 0.739400207 | 476 | 218 | 2127.4 | 214 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 9 | 3242 | 0.961105182 | 718 | 346 | 3373.2 | 361 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 10 | 2898 | 0.869408694 | 863 | 342 | 3333.3 | 362 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 11 | 2742 | 0.8153192 | 800 | 345 | 3363.1 | 362 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 12 | 2598 | 0.761586492 | 805 | 350 | 3411.3 | 362 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 13 | 2465 | 0.717174362 | 759 | 352 | 3437.1 | 362 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 14 | 2384 | 0.697402293 | 717 | 350 | 3418.4 | 362 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 15 | 2183 | 0.691764109 | 631 | 323 | 3155.7 | 330 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 16 | 1550 | 0.687391902 | 525 | 231 | 2254.9 | 223 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 17 | 294 | 0.6575416 | 181 | 45 | 447.12 | 84 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 18 | 75 | 0.331182853 | 28 | 23 | 226.461 | 13 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 19 | 172 | 0.379690949 | 148 | 46 | 453 | 22 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 20 | 460 | 0.533494155 | 461 | 88 | 862.24 | 70 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 21 | 18 | 0.186480186 | 7 | 9 | 96.525 | 0 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 22 | 194 | 0.405010438 | 148 | 49 | 479 | 17 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 23 | 557 | 0.544743276 | 591 | 104 | 1022.5 | 75 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 0 | 892 | 0.618156618 | 647 | 148 | 1443 | 114 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 1 | 955 | 0.672629948 | 738 | 145 | 1419.8 | 110 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 2 | 953 | 0.675311791 | 626 | 144 | 1411.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 3 | 955 | 0.680781295 | 613 | 143 | 1402.8 | 119 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 4 | 960 | 0.684491979 | 591 | 143 | 1402.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 5 | 982 | 0.697195598 | 594 | 144 | 1408.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 6 | 979 | 0.696103527 | 585 | 144 | 1406.4 | 119 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 7 | 1009 | 0.717128643 | 572 | 144 | 1407 | 119 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 8 | 1704 | 0.731236322 | 431 | 239 | 2330.3 | 214 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 9 | 2192 | 0.729305297 | 658 | 308 | 3005.6 | 297 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 10 | 2369 | 0.715601873 | 771 | 339 | 3310.5 | 342 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 11 | 2473 | 0.719250793 | 739 | 352 | 3438.3 | 362 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 12 | 2459 | 0.716053697 | 728 | 352 | 3434.1 | 362 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 13 | 2467 | 0.715342013 | 731 | 353 | 3448.7 | 362 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 14 | 2483 | 0.720252944 | 730 | 353 | 3447.4 | 362 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 15 | 2488 | 0.721096716 | 734 | 354 | 3450.3 | 362 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 16 | 2505 | 0.724197745 | 750 | 354 | 3459 | 363 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 17 | 2474 | 0.721030543 | 737 | 352 | 3431.2 | 362 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 18 | 2439 | 0.71766956 | 710 | 348 | 3398.5 | 361 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 19 | 2310 | 0.718082626 | 662 | 330 | 3216.9 | 337 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 20 | 2439 | 0.722067618 | 699 | 346 | 3377.8 | 357 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 21 | 2379 | 0.737445753 | 664 | 331 | 3226 | 340 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 22 | 1500 | 0.730175729 | 554 | 210 | 2054.3 | 201 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 23 | 1038 | 0.738212076 | 497 | 144 | 1406.1 | 124 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 0 | 1041 | 0.730116426 | 504 | 146 | 1425.8 | 124 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 1 | 1047 | 0.741238938 | 514 | 144 | 1412.5 | 124 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 2 | 1093 | 0.7668561 | 501 | 146 | 1425.3 | 124 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 3 | 1052 | 0.741106023 | 519 | 145 | 1419.5 | 124 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 4 | 1045 | 0.732408186 | 507 | 146 | 1426.8 | 124 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 5 | 1070 | 0.74898502 | 507 | 146 | 1428.6 | 124 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 6 | 1121 | 0.746288529 | 431 | 154 | 1502.1 | 132 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 7 | 1555 | 0.759499853 | 421 | 210 | 2047.4 | 192 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 8 | 2561 | 0.745191608 | 800 | 352 | 3436.7 | 358 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 9 | 2587 | 0.743006491 | 769 | 357 | 3481.8 | 370 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 10 | 2883 | 0.757348885 | 947 | 390 | 3806.7 | 405 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 11 | 3173 | 0.771888 | 1122 | 421 | 4110.7 | 436 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 12 | 3203 | 0.779110214 | 1134 | 421 | 4111.1 | 437 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 13 | 3197 | 0.783597637 | 1130 | 418 | 4079.9 | 436 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 14 | 3197 | 0.771253498 | 1131 | 425 | 4145.2 | 437 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 15 | 3066 | 0.762421047 | 1077 | 412 | 4021.4 | 427 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 16 | 2546 | 0.779594586 | 653 | 335 | 3265.8 | 344 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 17 | 2770 | 0.947688939 | 584 | 299 | 2922.9 | 298 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 18 | 3673 | 1.090234491 | 879 | 345 | 3369 | 357 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 19 | 3302 | 1.195294118 | 599 | 283 | 2762.5 | 282 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 20 | 2348 | 1.183646721 | 378 | 203 | 1983.7 | 192 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 21 | 1593 | 1.173653577 | 552 | 139 | 1357.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 22 | 1661 | 1.183554225 | 530 | 144 | 1403.4 | 122 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 23 | 1661 | 1.204758105 | 557 | 141 | 1378.7 | 120 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 0 | 1733 | 1.259356151 | 564 | 141 | 1376.1 | 120 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 1 | 1844 | 1.340018894 | 567 | 141 | 1376.1 | 119 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 2 | 1928 | 1.410800527 | 558 | 140 | 1366.6 | 119 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 3 | 1996 | 1.472845336 | 565 | 139 | 1355.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 4 | 2020 | 1.511976048 | 543 | 137 | 1336 | 119 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 5 | 2031 | 1.518618214 | 556 | 137 | 1337.4 | 120 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 6 | 2091 | 1.547627859 | 547 | 138 | 1351.1 | 122 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 7 | 2186 | 1.56904967 | 522 | 142 | 1393.2 | 127 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 8 | 3931 | 1.577447833 | 543 | 255 | 2492 | 249 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 9 | 5753 | 1.487639636 | 1078 | 396 | 3867.2 | 408 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 10 | 6672 | 1.487758106 | 1713 | 460 | 4484.6 | 485 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 11 | 6758 | 1.484980993 | 1738 | 466 | 4550.9 | 486 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 12 | 6965 | 1.525605642 | 1762 | 468 | 4565.4 | 486 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 13 | 7065 | 1.567526791 | 1505 | 462 | 4507.1 | 481 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 14 | 7146 | 1.610366197 | 1690 | 455 | 4437.5 | 474 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 15 | 6739 | 1.623698921 | 1477 | 425 | 4150.4 | 445 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 16 | 5158 | 1.647081364 | 792 | 321 | 3131.6 | 328 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 17 | 2788 | 1.654894046 | 527 | 172 | 1684.7 | 162 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 18 | 2211 | 1.640938103 | 595 | 138 | 1347.4 | 120 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 19 | 2210 | 1.646305125 | 606 | 137 | 1342.4 | 119 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 20 | 2184 | 1.632897196 | 600 | 137 | 1337.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 21 | 2166 | 1.620893512 | 590 | 137 | 1336.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 22 | 2152 | 1.612226551 | 574 | 137 | 1334.8 | 119 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 23 | 2148 | 1.593826519 | 568 | 138 | 1347.7 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 0 | 2152 | 1.600952239 | 568 | 137 | 1344.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 1 | 2151 | 1.604984331 | 566 | 137 | 1340.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 2 | 2159 | 1.609872493 | 565 | 137 | 1341.1 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 3 | 2177 | 1.620273891 | 563 | 137 | 1343.6 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 4 | 2177 | 1.629491018 | 550 | 137 | 1336 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 5 | 2196 | 1.621262458 | 559 | 139 | 1354.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 6 | 2178 | 1.633663366 | 547 | 136 | 1333.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 7 | 2204 | 1.624290663 | 549 | 139 | 1356.9 | 119 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 8 | 2193 | 1.624564783 | 549 | 138 | 1349.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 9 | 2187 | 1.61402214 | 544 | 139 | 1355 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 10 | 2210 | 1.612785521 | 550 | 140 | 1370.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 11 | 2313 | 1.615110677 | 521 | 146 | 1432.1 | 126 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 12 | 2350 | 1.600926494 | 525 | 150 | 1467.9 | 129 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 13 | 2215 | 1.589408726 | 549 | 143 | 1393.6 | 120 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 14 | 2344 | 1.592824137 | 515 | 151 | 1471.6 | 129 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 15 | 2212 | 1.587256028 | 518 | 143 | 1393.6 | 123 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 16 | 2163 | 1.572176188 | 543 | 141 | 1375.8 | 120 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 17 | 2281 | 1.580406014 | 512 | 148 | 1443.3 | 129 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 18 | 2369 | 1.592926304 | 487 | 152 | 1487.2 | 134 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 19 | 2211 | 1.581658202 | 534 | 143 | 1397.9 | 123 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 20 | 2198 | 1.583117257 | 519 | 142 | 1388.4 | 123 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 21 | 2134 | 1.573862379 | 543 | 139 | 1355.9 | 120 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 22 | 2125 | 1.558603491 | 529 | 139 | 1363.4 | 120 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 23 | 2100 | 1.557516873 | 523 | 138 | 1348.3 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 0 | 2076 | 1.547982999 | 516 | 137 | 1341.1 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 1 | 2056 | 1.54111386 | 523 | 136 | 1334.1 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 2 | 2044 | 1.524804178 | 508 | 137 | 1340.5 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 3 | 2044 | 1.530169187 | 526 | 137 | 1335.8 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 4 | 2036 | 1.542190577 | 510 | 135 | 1320.2 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 5 | 2041 | 1.525297063 | 515 | 137 | 1338.1 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 6 | 2034 | 1.529323308 | 482 | 136 | 1330 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 7 | 2051 | 1.534720144 | 518 | 137 | 1336.4 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 8 | 2057 | 1.544294294 | 516 | 136 | 1332 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 9 | 2064 | 1.508992543 | 448 | 140 | 1367.8 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 10 | 2231 | 1.504078743 | 740 | 152 | 1483.3 | 133 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 11 | 2210 | 1.527086788 | 534 | 148 | 1447.2 | 130 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 12 | 3605 | 1.557302691 | 618 | 237 | 2314.9 | 220 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 13 | 6291 | 1.604396725 | 1415 | 402 | 3921.1 | 414 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 14 | 7474 | 1.625913679 | 1898 | 471 | 4596.8 | 491 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 15 | 7515 | 1.637897215 | 1867 | 470 | 4588.2 | 491 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 16 | 7209 | 1.642964584 | 1698 | 450 | 4387.8 | 471 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 17 | 6032 | 1.642477876 | 1197 | 376 | 3672.5 | 395 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 18 | 7100 | 1.653855113 | 1614 | 440 | 4293 | 461 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 19 | 6184 | 1.626940279 | 1277 | 390 | 3801 | 410 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 20 | 4187 | 1.528436884 | 643 | 281 | 2739.4 | 283 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 21 | 1913 | 1.342738822 | 514 | 146 | 1424.7 | 131 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 22 | 1597 | 1.179903953 | 561 | 138 | 1353.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 23 | 1382 | 1.024082994 | 553 | 138 | 1349.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 0 | 1196 | 0.885925926 | 557 | 138 | 1350 | 119 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 1 | 1066 | 0.787762341 | 542 | 138 | 1353.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 2 | 978 | 0.718853363 | 544 | 139 | 1360.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 3 | 958 | 0.706333407 | 549 | 139 | 1356.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 4 | 945 | 0.704435334 | 536 | 137 | 1341.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 5 | 935 | 0.69218241 | 540 | 138 | 1350.8 | 119 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 6 | 918 | 0.686920084 | 541 | 137 | 1336.4 | 120 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 7 | 961 | 0.675523689 | 513 | 146 | 1422.6 | 128 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 8 | 3031 | 0.933850941 | 785 | 333 | 3245.7 | 324 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 9 | 4398 | 0.976790672 | 1652 | 462 | 4502.5 | 474 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 10 | 3806 | 0.842147188 | 1532 | 463 | 4519.4 | 476 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 11 | 3327 | 0.741012963 | 1405 | 460 | 4489.8 | 476 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 12 | 3126 | 0.689077483 | 1433 | 465 | 4536.5 | 476 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 13 | 3079 | 0.677313623 | 1400 | 466 | 4545.9 | 476 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 14 | 3078 | 0.673788363 | 1411 | 468 | 4568.2 | 476 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 15 | 3063 | 0.66814999 | 1311 | 470 | 4584.3 | 476 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 16 | 2923 | 0.666271569 | 1162 | 450 | 4387.1 | 457 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 17 | 2446 | 0.663070292 | 800 | 378 | 3688.9 | 387 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 18 | 2795 | 0.66569809 | 1003 | 430 | 4198.6 | 442 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 19 | 2532 | 0.660717082 | 866 | 393 | 3832.2 | 406 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 20 | 2075 | 0.654863347 | 605 | 325 | 3168.6 | 332 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 21 | 939 | 0.641174462 | 508 | 150 | 1464.5 | 133 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 22 | 876 | 0.641100703 | 522 | 140 | 1366.4 | 119 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 23 | 880 | 0.637866048 | 536 | 141 | 1379.6 | 119 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 0 | 881 | 0.639843126 | 549 | 141 | 1376.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 1 | 880 | 0.637727372 | 547 | 141 | 1379.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 2 | 877 | 0.641410078 | 546 | 140 | 1367.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 3 | 880 | 0.640932265 | 545 | 140 | 1373 | 119 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 4 | 881 | 0.640587508 | 541 | 141 | 1375.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 5 | 898 | 0.639646698 | 543 | 144 | 1403.9 | 123 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 6 | 1159 | 0.650137432 | 356 | 182 | 1782.7 | 160 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 7 | 1048 | 0.645518941 | 371 | 166 | 1623.5 | 147 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 8 | 884 | 0.644455785 | 524 | 140 | 1371.7 | 120 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 9 | 1580 | 0.650152251 | 561 | 249 | 2430.2 | 239 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 10 | 2284 | 0.659201108 | 644 | 355 | 3464.8 | 360 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 11 | 2272 | 0.661176265 | 615 | 352 | 3436.3 | 362 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 12 | 2285 | 0.663569043 | 616 | 353 | 3443.5 | 362 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 13 | 2282 | 0.662851831 | 619 | 353 | 3442.7 | 362 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 14 | 2288 | 0.662708182 | 621 | 354 | 3452.5 | 362 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 15 | 2289 | 0.664730652 | 619 | 353 | 3443.5 | 362 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 16 | 2301 | 0.667227281 | 675 | 353 | 3448.6 | 362 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 17 | 2352 | 0.683025991 | 674 | 353 | 3443.5 | 362 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 18 | 2280 | 0.663079831 | 670 | 352 | 3438.5 | 362 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 19 | 1739 | 0.661845861 | 486 | 269 | 2627.5 | 270 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 20 | 873 | 0.649940441 | 556 | 137 | 1343.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 21 | 885 | 0.645137775 | 566 | 140 | 1371.8 | 119 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 22 | 886 | 0.650084379 | 586 | 139 | 1362.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 23 | 883 | 0.648644678 | 589 | 139 | 1361.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 0 | 878 | 0.644261814 | 576 | 139 | 1362.8 | 119 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 1 | 873 | 0.646140182 | 572 | 138 | 1351.1 | 119 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 2 | 867 | 0.640845591 | 573 | 138 | 1352.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 3 | 867 | 0.644657595 | 578 | 138 | 1344.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 4 | 857 | 0.643780048 | 573 | 136 | 1331.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 5 | 859 | 0.645282452 | 576 | 136 | 1331.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 6 | 852 | 0.642146518 | 570 | 136 | 1326.8 | 119 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 7 | 856 | 0.639856481 | 567 | 137 | 1337.8 | 119 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 8 | 1101 | 0.643257771 | 482 | 175 | 1711.6 | 161 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 9 | 1941 | 0.65490249 | 497 | 304 | 2963.8 | 304 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 10 | 2672 | 0.659004587 | 875 | 416 | 4054.6 | 428 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 11 | 2708 | 0.66060059 | 897 | 420 | 4099.3 | 436 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 12 | 2660 | 0.660754651 | 853 | 413 | 4025.7 | 431 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 13 | 1702 | 0.649667914 | 579 | 268 | 2619.8 | 256 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 14 | 1413 | 0.647778847 | 340 | 223 | 2181.3 | 180 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 15 | 1097 | 0.645635925 | 416 | 174 | 1699.1 | 149 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 16 | 1039 | 0.648928861 | 497 | 164 | 1601.1 | 139 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 17 | 1323 | 0.653172056 | 526 | 207 | 2025.5 | 168 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 18 | 2702 | 0.664960378 | 877 | 416 | 4063.4 | 402 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 19 | 2697 | 0.668998363 | 899 | 413 | 4031.4 | 417 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 20 | 2691 | 0.667510046 | 774 | 413 | 4031.4 | 389 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 21 | 1542 | 0.66015926 | 422 | 239 | 2335.8 | 242 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 22 | 835 | 0.651173672 | 542 | 131 | 1282.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 23 | 859 | 0.648840547 | 538 | 135 | 1323.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 0 | 861 | 0.650646112 | 541 | 135 | 1323.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 1 | 868 | 0.647761194 | 540 | 137 | 1340 | 119 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 2 | 865 | 0.649204443 | 538 | 136 | 1332.4 | 119 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 3 | 870 | 0.65295707 | 533 | 136 | 1332.4 | 119 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 4 | 861 | 0.654205607 | 527 | 135 | 1316.1 | 119 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 5 | 870 | 0.656306578 | 531 | 136 | 1325.6 | 119 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 6 | 859 | 0.657985446 | 520 | 133 | 1305.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 7 | 865 | 0.652534701 | 522 | 136 | 1325.6 | 121 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 8 | 1709 | 0.656474475 | 468 | 267 | 2603.3 | 257 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 9 | 2518 | 0.658180202 | 914 | 392 | 3825.7 | 402 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 10 | 2696 | 0.659007578 | 969 | 419 | 4091 | 435 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 11 | 2707 | 0.658621445 | 978 | 421 | 4110.1 | 436 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 12 | 2648 | 0.65997059 | 874 | 411 | 4012.3 | 427 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 13 | 2323 | 0.660543676 | 647 | 360 | 3516.8 | 374 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 14 | 2183 | 0.659755803 | 572 | 339 | 3308.8 | 347 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 15 | 2240 | 0.665280665 | 596 | 345 | 3367 | 354 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 16 | 2341 | 0.685063795 | 618 | 350 | 3417.2 | 362 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 17 | 2925 | 0.723687466 | 953 | 414 | 4041.8 | 426 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 18 | 2961 | 0.760088305 | 864 | 399 | 3895.6 | 411 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 19 | 3008 | 0.835927079 | 734 | 369 | 3598.4 | 383 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 20 | 3290 | 0.940752602 | 716 | 358 | 3497.2 | 374 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 21 | 3034 | 1.041144779 | 585 | 299 | 2914.1 | 307 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 22 | 2102 | 1.134866645 | 407 | 190 | 1852.2 | 185 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 23 | 1764 | 1.253285968 | 494 | 144 | 1407.5 | 132 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 0 | 1878 | 1.34027976 | 498 | 143 | 1401.2 | 129 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 1 | 1956 | 1.404768745 | 505 | 142 | 1392.4 | 129 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 2 | 2028 | 1.439114391 | 508 | 144 | 1409.2 | 129 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 3 | 2059 | 1.468197376 | 506 | 143 | 1402.4 | 129 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 4 | 2084 | 1.488890477 | 512 | 143 | 1399.7 | 129 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 5 | 2106 | 1.490551348 | 512 | 145 | 1412.9 | 129 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 6 | 2317 | 1.506110244 | 384 | 157 | 1538.4 | 146 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 7 | 2114 | 1.502487562 | 506 | 144 | 1407 | 130 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 8 | 2152 | 1.508693214 | 510 | 146 | 1426.4 | 131 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 9 | 2212 | 1.518083865 | 483 | 149 | 1457.1 | 134 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 10 | 2321 | 1.532923849 | 457 | 155 | 1514.1 | 141 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 11 | 2255 | 1.545685105 | 466 | 149 | 1458.9 | 136 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 12 | 3290 | 1.545253863 | 485 | 218 | 2129.1 | 207 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 13 | 4528 | 1.505068971 | 634 | 308 | 3008.5 | 303 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 14 | 4566 | 1.544916258 | 617 | 303 | 2955.5 | 300 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 15 | 4442 | 1.583092769 | 569 | 287 | 2805.9 | 283 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 16 | 4355 | 1.613022705 | 550 | 277 | 2699.9 | 275 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 17 | 4045 | 1.633155685 | 487 | 254 | 2476.8 | 249 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 18 | 4822 | 1.657329438 | 628 | 298 | 2909.5 | 300 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 19 | 2916 | 1.677501007 | 474 | 178 | 1738.3 | 174 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 20 | 2403 | 1.68513324 | 500 | 146 | 1426 | 133 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 21 | 2378 | 1.682467808 | 521 | 145 | 1413.4 | 129 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 22 | 2469 | 1.696673997 | 494 | 149 | 1455.2 | 133 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 23 | 2542 | 1.688812118 | 471 | 154 | 1505.2 | 138 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 0 | 2555 | 1.70083877 | 462 | 154 | 1502.2 | 139 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 1 | 2516 | 1.678228388 | 460 | 153 | 1499.2 | 139 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 2 | 2463 | 1.642109474 | 459 | 153 | 1499.9 | 139 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 3 | 2405 | 1.608157807 | 460 | 153 | 1495.5 | 139 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 4 | 2363 | 1.575753534 | 454 | 153 | 1499.6 | 139 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 5 | 2359 | 1.579088292 | 451 | 153 | 1493.9 | 139 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 6 | 2339 | 1.587053874 | 446 | 151 | 1473.8 | 139 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 7 | 2353 | 1.579512654 | 451 | 152 | 1489.7 | 139 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 8 | 2427 | 1.579666753 | 444 | 157 | 1536.4 | 142 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 9 | 2690 | 1.594168543 | 401 | 173 | 1687.4 | 159 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 10 | 3075 | 1.613495645 | 404 | 195 | 1905.8 | 182 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 11 | 4438 | 1.623797153 | 563 | 280 | 2733.1 | 271 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 12 | 5489 | 1.612277868 | 854 | 349 | 3404.5 | 359 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 13 | 5104 | 1.55424952 | 880 | 336 | 3283.9 | 348 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 14 | 4891 | 1.575962623 | 788 | 318 | 3103.5 | 327 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 15 | 4281 | 1.582449266 | 622 | 277 | 2705.3 | 274 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 16 | 4655 | 1.606501933 | 709 | 297 | 2897.6 | 299 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 17 | 4848 | 1.624066195 | 734 | 306 | 2985.1 | 306 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 18 | 6507 | 1.659187108 | 1337 | 402 | 3921.8 | 420 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 19 | 5542 | 1.666215688 | 947 | 341 | 3326.1 | 354 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 20 | 4958 | 1.691630557 | 685 | 300 | 2930.9 | 305 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 21 | 3587 | 1.698309739 | 443 | 216 | 2112.1 | 211 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 22 | 2587 | 1.713131581 | 445 | 154 | 1510.1 | 140 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 23 | 2613 | 1.720550471 | 448 | 155 | 1518.7 | 139 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 0 | 2640 | 1.740276862 | 452 | 155 | 1517 | 139 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 1 | 2672 | 1.766962042 | 450 | 155 | 1512.2 | 139 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 2 | 2691 | 1.775768774 | 450 | 155 | 1515.4 | 139 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 3 | 2708 | 1.788403117 | 445 | 155 | 1514.2 | 138 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 4 | 2677 | 1.780985962 | 438 | 154 | 1503.1 | 138 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 5 | 2668 | 1.7650172 | 438 | 155 | 1511.6 | 138 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 6 | 2613 | 1.72577769 | 430 | 155 | 1514.1 | 138 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 7 | 2804 | 1.741290443 | 425 | 165 | 1610.3 | 148 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 8 | 3878 | 1.756420128 | 437 | 226 | 2207.9 | 212 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 9 | 5322 | 1.744689221 | 658 | 313 | 3050.4 | 310 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 10 | 6988 | 1.755426045 | 1289 | 408 | 3980.8 | 424 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 11 | 7507 | 1.735080664 | 1609 | 443 | 4326.6 | 465 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 12 | 7775 | 1.726090045 | 1738 | 462 | 4504.4 | 484 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 13 | 7486 | 1.737576306 | 1581 | 442 | 4308.3 | 464 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 14 | 7667 | 1.715980304 | 1662 | 458 | 4468 | 478 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 15 | 7718 | 1.715377948 | 1691 | 461 | 4499.3 | 484 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 16 | 7006 | 1.597136735 | 1552 | 450 | 4386.6 | 470 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 17 | 5676 | 1.464698596 | 1166 | 397 | 3875.2 | 413 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 18 | 6207 | 1.292855655 | 1752 | 492 | 4801 | 507 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 19 | 4732 | 1.057879323 | 1462 | 458 | 4473.1 | 473 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 20 | 3119 | 0.916544226 | 707 | 349 | 3403 | 357 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 21 | 2716 | 0.780370072 | 560 | 357 | 3480.4 | 366 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 22 | 2301 | 0.714041893 | 489 | 330 | 3222.5 | 336 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 23 | 1374 | 0.692505418 | 319 | 203 | 1984.1 | 195 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 0 | 1029 | 0.691718204 | 413 | 152 | 1487.6 | 134 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 1 | 1041 | 0.701340699 | 417 | 152 | 1484.3 | 134 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 2 | 1043 | 0.696308165 | 419 | 153 | 1497.9 | 134 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 3 | 1044 | 0.696510775 | 415 | 153 | 1498.9 | 134 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 4 | 1042 | 0.700174708 | 409 | 152 | 1488.2 | 134 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 5 | 1150 | 0.70418223 | 365 | 167 | 1633.1 | 151 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 6 | 1897 | 0.724986624 | 382 | 268 | 2616.6 | 253 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 7 | 3578 | 0.826728899 | 1250 | 444 | 4327.9 | 450 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 8 | 3793 | 0.83852854 | 1361 | 464 | 4523.4 | 476 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 9 | 3398 | 0.811889231 | 1151 | 429 | 4185.3 | 441 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 10 | 3560 | 0.791163855 | 1295 | 461 | 4499.7 | 474 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 11 | 3409 | 0.754921718 | 1264 | 463 | 4515.7 | 476 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 12 | 3316 | 0.735173484 | 1244 | 462 | 4510.5 | 476 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 13 | 3282 | 0.726459781 | 1237 | 463 | 4517.8 | 476 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 14 | 3178 | 0.717138666 | 1187 | 454 | 4431.5 | 467 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 15 | 2595 | 0.706353095 | 793 | 376 | 3673.8 | 388 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 16 | 2578 | 0.706185285 | 770 | 374 | 3650.6 | 382 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 17 | 2631 | 0.706441479 | 834 | 382 | 3724.3 | 391 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 18 | 2545 | 0.704615299 | 751 | 370 | 3611.9 | 378 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 19 | 2530 | 0.701200078 | 743 | 370 | 3608.1 | 377 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 20 | 2411 | 0.695674755 | 648 | 355 | 3465.7 | 359 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 21 | 1499 | 0.691707812 | 318 | 222 | 2167.1 | 216 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 22 | 1004 | 0.679618222 | 444 | 151 | 1477.3 | 133 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 23 | 931 | 0.677781013 | 513 | 140 | 1373.6 | 119 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 0 | 934 | 0.678927092 | 526 | 141 | 1375.7 | 119 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 1 | 939 | 0.679106097 | 528 | 141 | 1382.7 | 119 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 2 | 939 | 0.676707985 | 530 | 142 | 1387.6 | 119 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 3 | 939 | 0.679155215 | 537 | 141 | 1382.6 | 119 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 4 | 929 | 0.6813348 | 527 | 139 | 1363.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 5 | 916 | 0.680433814 | 527 | 138 | 1346.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 6 | 1216 | 0.688717716 | 301 | 181 | 1765.6 | 166 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 7 | 1020 | 0.685069514 | 430 | 152 | 1488.9 | 136 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 8 | 1786 | 0.693915611 | 406 | 264 | 2573.8 | 251 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 9 | 2477 | 0.70235631 | 529 | 361 | 3526.7 | 361 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 10 | 2228 | 0.703682648 | 455 | 324 | 3166.2 | 326 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 11 | 2318 | 0.704152617 | 467 | 337 | 3291.9 | 340 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 12 | 2664 | 0.708322255 | 1023 | 385 | 3761 | 396 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 13 | 2498 | 0.708692692 | 916 | 361 | 3524.8 | 372 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 14 | 2454 | 0.699643621 | 876 | 359 | 3507.5 | 365 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 15 | 2329 | 0.700851614 | 761 | 340 | 3323.1 | 347 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 16 | 2301 | 0.700499269 | 732 | 337 | 3284.8 | 342 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 17 | 2284 | 0.700463091 | 733 | 334 | 3260.7 | 341 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 18 | 2156 | 0.698706938 | 573 | 316 | 3085.7 | 319 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 19 | 2218 | 0.693298325 | 550 | 328 | 3199.2 | 329 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 20 | 2216 | 0.694779746 | 542 | 327 | 3189.5 | 328 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 21 | 1335 | 0.684369713 | 386 | 200 | 1950.7 | 190 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 22 | 1001 | 0.679058409 | 445 | 151 | 1474.1 | 131 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 23 | 922 | 0.677144536 | 554 | 139 | 1361.6 | 120 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 0 | 916 | 0.678971166 | 557 | 138 | 1349.1 | 119 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 1 | 914 | 0.68163174 | 565 | 137 | 1340.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 2 | 915 | 0.682682981 | 556 | 137 | 1340.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 3 | 918 | 0.675596114 | 553 | 139 | 1358.8 | 119 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 4 | 913 | 0.677149002 | 540 | 138 | 1348.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 5 | 920 | 0.68340514 | 549 | 138 | 1346.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 6 | 1058 | 0.68483397 | 397 | 158 | 1544.9 | 142 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 7 | 974 | 0.680500245 | 425 | 146 | 1431.3 | 131 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 8 | 1296 | 0.681244743 | 401 | 195 | 1902.4 | 177 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 9 | 2359 | 0.69398682 | 843 | 348 | 3399.2 | 343 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 10 | 2436 | 0.7 | 946 | 357 | 3480 | 362 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 11 | 2442 | 0.704700892 | 914 | 355 | 3465.3 | 362 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 12 | 2452 | 0.706078844 | 902 | 356 | 3472.7 | 362 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 13 | 2474 | 0.705727978 | 904 | 359 | 3505.6 | 362 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 14 | 2469 | 0.704301689 | 918 | 359 | 3505.6 | 362 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 15 | 2458 | 0.702446273 | 909 | 359 | 3499.2 | 362 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 16 | 2480 | 0.703486228 | 927 | 361 | 3525.3 | 366 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 17 | 2699 | 0.705897738 | 1112 | 392 | 3823.5 | 399 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 18 | 2712 | 0.707484413 | 1127 | 393 | 3833.3 | 403 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 19 | 1886 | 0.699062234 | 634 | 276 | 2697.9 | 274 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 20 | 1076 | 0.690939446 | 437 | 159 | 1557.3 | 144 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 21 | 959 | 0.69522981 | 518 | 141 | 1379.4 | 123 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 22 | 957 | 0.686661405 | 526 | 143 | 1393.7 | 123 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 23 | 962 | 0.693833393 | 531 | 142 | 1386.5 | 123 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 0 | 979 | 0.706706129 | 530 | 142 | 1385.3 | 123 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 1 | 991 | 0.714594751 | 529 | 142 | 1386.8 | 123 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 2 | 1002 | 0.720345075 | 531 | 142 | 1391 | 123 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 3 | 998 | 0.716079501 | 531 | 143 | 1393.7 | 123 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 4 | 1001 | 0.723579587 | 503 | 141 | 1383.4 | 123 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 5 | 1019 | 0.728637826 | 506 | 143 | 1398.5 | 123 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 6 | 980 | 0.72770476 | 402 | 138 | 1346.7 | 123 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 7 | 1023 | 0.711058595 | 362 | 147 | 1438.7 | 122 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 8 | 1896 | 0.709793351 | 507 | 274 | 2671.2 | 252 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 9 | 2532 | 0.706650666 | 806 | 367 | 3583.1 | 362 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 10 | 2511 | 0.71312942 | 714 | 361 | 3521.1 | 362 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 11 | 2530 | 0.716368888 | 653 | 362 | 3531.7 | 362 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 12 | 2554 | 0.720980126 | 662 | 363 | 3542.4 | 362 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 13 | 2599 | 0.733434925 | 659 | 363 | 3543.6 | 362 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 14 | 2563 | 0.728891164 | 671 | 360 | 3516.3 | 363 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 15 | 2553 | 0.722635795 | 653 | 362 | 3532.9 | 362 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 16 | 2468 | 0.725157196 | 622 | 349 | 3403.4 | 352 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 17 | 1885 | 0.71916371 | 422 | 268 | 2621.1 | 259 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 18 | 2388 | 0.728759766 | 599 | 336 | 3276.8 | 342 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 19 | 2510 | 0.727557321 | 648 | 354 | 3449.9 | 361 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 20 | 2552 | 0.729747505 | 671 | 358 | 3497.1 | 367 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 21 | 2570 | 0.732924569 | 697 | 359 | 3506.5 | 368 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 22 | 1601 | 0.72512342 | 401 | 226 | 2207.9 | 214 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 23 | 944 | 0.706216803 | 526 | 137 | 1336.7 | 120 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 0 | 946 | 0.714123953 | 498 | 135 | 1324.7 | 119 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 1 | 954 | 0.716216216 | 515 | 136 | 1332 | 119 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 2 | 967 | 0.721372622 | 514 | 137 | 1340.5 | 120 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 3 | 993 | 0.723444558 | 569 | 140 | 1372.6 | 120 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 4 | 965 | 0.726985084 | 592 | 136 | 1327.4 | 120 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 5 | 1300 | 0.765155974 | 468 | 174 | 1699 | 156 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 6 | 1955 | 0.799166088 | 415 | 251 | 2446.3 | 236 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 7 | 2469 | 0.84979693 | 560 | 298 | 2905.4 | 292 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 8 | 2624 | 0.83839223 | 588 | 321 | 3129.8 | 327 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 9 | 2968 | 0.853364002 | 775 | 356 | 3478 | 368 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 10 | 3303 | 0.867931469 | 1137 | 390 | 3805.6 | 406 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 11 | 3406 | 0.899725275 | 1124 | 388 | 3785.6 | 403 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 12 | 3457 | 0.926139256 | 1108 | 383 | 3732.7 | 397 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 13 | 3553 | 0.951653944 | 1123 | 383 | 3733.5 | 397 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 14 | 3669 | 0.979941775 | 1153 | 384 | 3744.1 | 397 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 15 | 3706 | 0.991465796 | 1162 | 383 | 3737.9 | 397 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 16 | 3780 | 1.016785023 | 1185 | 381 | 3717.6 | 397 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 17 | 3387 | 1.059496997 | 770 | 328 | 3196.8 | 339 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 18 | 3558 | 1.068725219 | 765 | 341 | 3329.2 | 352 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 19 | 3680 | 1.081684842 | 809 | 349 | 3402.1 | 362 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 20 | 3807 | 1.091644205 | 868 | 357 | 3487.4 | 370 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 21 | 3530 | 1.096409492 | 746 | 330 | 3219.6 | 338 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 22 | 3316 | 1.103090383 | 676 | 308 | 3006.1 | 314 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 23 | 2439 | 1.092154756 | 502 | 229 | 2233.2 | 222 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 0 | 1736 | 1.084796601 | 544 | 164 | 1600.3 | 153 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 1 | 1452 | 1.076751947 | 645 | 138 | 1348.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 2 | 1469 | 1.08509381 | 653 | 138 | 1353.8 | 120 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 3 | 1456 | 1.082206035 | 657 | 138 | 1345.4 | 120 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 4 | 1450 | 1.07359692 | 613 | 138 | 1350.6 | 120 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 5 | 1458 | 1.07720724 | 584 | 138 | 1353.5 | 120 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 6 | 1454 | 1.069196264 | 575 | 139 | 1359.9 | 120 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 7 | 1561 | 1.072336333 | 563 | 149 | 1455.7 | 129 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 8 | 2367 | 1.089026915 | 502 | 223 | 2173.5 | 208 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 9 | 3180 | 1.093008868 | 672 | 298 | 2909.4 | 294 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 10 | 3788 | 1.099468842 | 909 | 353 | 3445.3 | 361 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 11 | 3904 | 1.093679964 | 953 | 366 | 3569.6 | 372 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 12 | 3657 | 1.097506077 | 823 | 341 | 3332.1 | 348 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 13 | 3909 | 1.095418243 | 934 | 366 | 3568.5 | 371 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 14 | 3650 | 1.096853683 | 821 | 341 | 3327.7 | 344 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 15 | 3588 | 1.099736407 | 783 | 334 | 3262.6 | 340 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 16 | 3516 | 1.09929965 | 799 | 328 | 3198.4 | 332 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 17 | 2713 | 1.100921154 | 554 | 252 | 2464.3 | 246 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 18 | 3648 | 1.113723096 | 828 | 336 | 3275.5 | 340 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 19 | 3072 | 1.115427907 | 627 | 282 | 2754.1 | 276 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 20 | 3063 | 1.115196971 | 626 | 281 | 2746.6 | 274 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 21 | 2695 | 1.114511393 | 558 | 248 | 2418.1 | 242 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 22 | 2697 | 1.098619088 | 557 | 251 | 2454.9 | 246 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 23 | 2412 | 1.074100463 | 496 | 230 | 2245.6 | 221 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 0 | 1590 | 1.060707138 | 517 | 153 | 1499 | 142 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 1 | 1477 | 1.071765474 | 527 | 141 | 1378.1 | 123 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 2 | 1523 | 1.110220149 | 544 | 140 | 1371.8 | 120 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 3 | 1588 | 1.163455198 | 555 | 140 | 1364.9 | 120 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 4 | 1659 | 1.236583184 | 523 | 137 | 1341.6 | 120 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 5 | 1759 | 1.313568815 | 530 | 137 | 1339.1 | 120 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 6 | 1922 | 1.443484792 | 523 | 136 | 1331.5 | 120 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 7 | 2037 | 1.537358491 | 520 | 135 | 1325 | 120 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 8 | 4127 | 1.620592162 | 634 | 261 | 2546.6 | 253 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 9 | 5083 | 1.648986212 | 779 | 316 | 3082.5 | 316 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 10 | 6391 | 1.586131586 | 1502 | 413 | 4029.3 | 422 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 11 | 6919 | 1.570394244 | 1824 | 452 | 4405.9 | 462 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 12 | 6747 | 1.61508079 | 1662 | 428 | 4177.5 | 443 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 13 | 7341 | 1.67445998 | 1815 | 449 | 4384.1 | 462 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 14 | 7293 | 1.70329542 | 1734 | 439 | 4281.7 | 453 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 15 | 6364 | 1.779592293 | 1190 | 366 | 3576.1 | 383 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 16 | 6239 | 1.744735591 | 1137 | 366 | 3575.9 | 382 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 17 | 7180 | 1.755715858 | 1513 | 419 | 4089.5 | 434 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 18 | 8168 | 1.759283191 | 2024 | 476 | 4642.8 | 490 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 19 | 7921 | 1.764535531 | 1898 | 460 | 4489 | 479 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 20 | 6604 | 1.734653673 | 1362 | 390 | 3807.1 | 413 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 21 | 4937 | 1.774750162 | 659 | 285 | 2781.8 | 298 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 22 | 3987 | 1.7750768 | 462 | 230 | 2246.1 | 228 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 23 | 2407 | 1.74724158 | 450 | 141 | 1377.6 | 133 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 0 | 2242 | 1.714198333 | 457 | 134 | 1307.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 1 | 2236 | 1.714855434 | 444 | 133 | 1303.9 | 120 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 2 | 2244 | 1.718881655 | 447 | 133 | 1305.5 | 120 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 3 | 2253 | 1.707206183 | 435 | 135 | 1319.7 | 120 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 4 | 2237 | 1.709068684 | 429 | 134 | 1308.9 | 120 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 5 | 2290 | 1.700831848 | 433 | 138 | 1346.4 | 124 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 6 | 3075 | 1.711566292 | 442 | 184 | 1796.6 | 169 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 7 | 3954 | 1.740393503 | 472 | 233 | 2271.9 | 226 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 8 | 5440 | 1.767438838 | 738 | 315 | 3077.9 | 318 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 9 | 6195 | 1.782272217 | 969 | 356 | 3475.9 | 370 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 10 | 5816 | 1.791247036 | 840 | 333 | 3246.9 | 345 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 11 | 4808 | 1.773646156 | 596 | 278 | 2710.8 | 277 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 12 | 5708 | 1.762598814 | 829 | 332 | 3238.4 | 344 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 13 | 6100 | 1.765710481 | 963 | 354 | 3454.7 | 372 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 14 | 5559 | 1.706313883 | 983 | 334 | 3257.9 | 349 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 15 | 4771 | 1.680284567 | 749 | 291 | 2839.4 | 297 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 16 | 3865 | 1.685564762 | 573 | 235 | 2293 | 225 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 17 | 5056 | 1.765794712 | 770 | 293 | 2863.3 | 293 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 18 | 7816 | 1.748154775 | 1927 | 458 | 4471 | 476 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 19 | 7891 | 1.749046901 | 1962 | 462 | 4511.6 | 484 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 20 | 5826 | 1.781705863 | 1062 | 335 | 3269.9 | 354 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 21 | 2932 | 1.840321366 | 509 | 163 | 1593.2 | 155 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 22 | 2834 | 1.834898025 | 478 | 158 | 1544.5 | 145 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 23 | 2592 | 1.832579186 | 529 | 145 | 1414.4 | 130 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 0 | 2419 | 1.813615235 | 585 | 136 | 1333.8 | 120 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 1 | 2428 | 1.808296716 | 588 | 137 | 1342.7 | 120 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 2 | 2421 | 1.807120997 | 568 | 137 | 1339.7 | 120 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 3 | 2644 | 1.795829654 | 562 | 151 | 1472.3 | 134 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 4 | 2969 | 1.802780982 | 543 | 169 | 1646.9 | 159 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 5 | 3864 | 1.82229768 | 517 | 217 | 2120.4 | 211 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 6 | 5877 | 1.805363561 | 1038 | 334 | 3255.3 | 344 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 7 | 6822 | 1.773837073 | 1511 | 394 | 3845.9 | 409 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 8 | 7742 | 1.816390212 | 1815 | 437 | 4262.3 | 454 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 9 | 8292 | 1.83682963 | 2085 | 463 | 4514.3 | 483 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 10 | 8080 | 1.828012941 | 2011 | 453 | 4420.1 | 474 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 11 | 8220 | 1.827560141 | 2042 | 461 | 4497.8 | 480 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 12 | 8243 | 1.820370125 | 2087 | 464 | 4528.2 | 482 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 13 | 8253 | 1.829527821 | 2070 | 462 | 4511 | 480 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 14 | 7667 | 1.837771759 | 1802 | 428 | 4171.9 | 447 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 15 | 7697 | 1.826400588 | 1748 | 432 | 4214.3 | 445 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 16 | 7410 | 1.827734202 | 1674 | 416 | 4054.2 | 432 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 17 | 8174 | 1.803976959 | 2075 | 464 | 4531.1 | 479 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 18 | 8219 | 1.807485925 | 2146 | 466 | 4547.2 | 485 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 19 | 8195 | 1.795416703 | 2127 | 468 | 4564.4 | 484 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 20 | 7353 | 1.778449631 | 1773 | 424 | 4134.5 | 443 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 21 | 6423 | 1.76243003 | 1326 | 373 | 3644.4 | 385 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 22 | 7498 | 1.758277835 | 1893 | 437 | 4264.4 | 452 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 23 | 5496 | 1.742991247 | 889 | 323 | 3153.2 | 332 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 0 | 2712 | 1.716672997 | 500 | 162 | 1579.8 | 152 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 1 | 2251 | 1.687406297 | 592 | 136 | 1334 | 120 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 2 | 2295 | 1.691729323 | 588 | 139 | 1356.6 | 121 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 3 | 2292 | 1.680844823 | 591 | 139 | 1363.6 | 120 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 4 | 2334 | 1.668692357 | 609 | 143 | 1398.7 | 120 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 5 | 2331 | 1.683883551 | 598 | 142 | 1384.3 | 127 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 6 | 4290 | 1.719921421 | 616 | 255 | 2494.3 | 248 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 7 | 4557 | 1.724568574 | 655 | 271 | 2642.4 | 260 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 8 | 4396 | 1.734738171 | 600 | 260 | 2534.1 | 251 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 9 | 5685 | 1.758591889 | 834 | 331 | 3232.7 | 333 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 10 | 6479 | 1.768672199 | 1340 | 375 | 3663.2 | 386 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 11 | 5430 | 1.762586425 | 973 | 316 | 3080.7 | 321 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 12 | 5136 | 1.743262508 | 830 | 302 | 2946.2 | 302 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 13 | 4636 | 1.741874883 | 721 | 273 | 2661.5 | 268 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 14 | 3927 | 1.742236025 | 522 | 231 | 2254 | 227 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 15 | 2815 | 1.736261025 | 687 | 166 | 1621.3 | 156 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 16 | 2275 | 1.713876752 | 909 | 136 | 1327.4 | 119 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 17 | 2601 | 1.709721948 | 885 | 156 | 1521.3 | 140 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 18 | 5374 | 1.777704267 | 776 | 310 | 3023 | 306 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 19 | 4241 | 1.787716562 | 555 | 243 | 2372.3 | 238 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 20 | 4364 | 1.777813989 | 574 | 251 | 2454.7 | 249 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 21 | 3820 | 1.758100147 | 469 | 222 | 2172.8 | 220 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 22 | 3117 | 1.744654651 | 478 | 183 | 1786.6 | 178 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 23 | 2531 | 1.70483632 | 430 | 152 | 1484.6 | 139 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 0 | 2631 | 1.685998078 | 443 | 160 | 1560.5 | 142 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 1 | 2925 | 1.690653719 | 460 | 177 | 1730.1 | 160 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 2 | 3163 | 1.696615352 | 436 | 191 | 1864.3 | 177 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 3 | 2647 | 1.68555782 | 441 | 161 | 1570.4 | 144 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 4 | 3243 | 1.699685535 | 431 | 195 | 1908 | 179 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 5 | 5626 | 1.719437653 | 808 | 335 | 3272 | 336 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 6 | 5931 | 1.724378543 | 1062 | 352 | 3439.5 | 358 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 7 | 5602 | 1.719248711 | 853 | 334 | 3258.4 | 340 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 8 | 7107 | 1.711705202 | 1573 | 426 | 4152 | 441 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 9 | 6445 | 1.710774295 | 1299 | 386 | 3767.3 | 409 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 10 | 6851 | 1.714078411 | 1466 | 410 | 3996.9 | 435 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 11 | 6165 | 1.692844198 | 1176 | 373 | 3641.8 | 396 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 12 | 6201 | 1.701841535 | 1198 | 373 | 3643.7 | 397 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 13 | 5959 | 1.699124633 | 1087 | 359 | 3507.1 | 381 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 14 | 6019 | 1.711353103 | 1100 | 360 | 3517.1 | 379 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 15 | 4441 | 1.73816047 | 590 | 262 | 2555 | 265 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 16 | 2358 | 1.722299321 | 569 | 140 | 1369.1 | 130 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 17 | 2235 | 1.710677382 | 621 | 134 | 1306.5 | 121 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 18 | 2288 | 1.692307692 | 570 | 138 | 1352 | 124 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 19 | 2187 | 1.663117871 | 614 | 134 | 1315 | 120 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 20 | 2270 | 1.642784773 | 558 | 141 | 1381.8 | 129 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 21 | 2433 | 1.620811405 | 481 | 154 | 1501.1 | 140 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 22 | 3143 | 1.658312668 | 462 | 194 | 1895.3 | 189 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 23 | 2773 | 1.633867547 | 454 | 174 | 1697.2 | 166 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 0 | 2330 | 1.604683196 | 493 | 149 | 1452 | 139 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 1 | 2299 | 1.569604697 | 492 | 150 | 1464.7 | 139 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 2 | 2275 | 1.547092826 | 482 | 150 | 1470.5 | 139 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 3 | 2250 | 1.523461304 | 491 | 151 | 1476.9 | 139 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 4 | 2249 | 1.54612952 | 484 | 149 | 1454.6 | 139 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 5 | 2354 | 1.558837163 | 478 | 154 | 1510.1 | 147 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 6 | 3046 | 1.594180143 | 443 | 196 | 1910.7 | 189 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 7 | 3728 | 1.607450845 | 463 | 238 | 2319.2 | 236 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 8 | 3831 | 1.583057851 | 471 | 248 | 2420 | 248 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 9 | 3824 | 1.569013622 | 467 | 250 | 2437.2 | 248 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 10 | 4278 | 1.584561819 | 575 | 277 | 2699.8 | 276 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 11 | 3221 | 1.606563918 | 481 | 205 | 2004.9 | 203 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 12 | 3224 | 1.597463086 | 482 | 207 | 2018.2 | 198 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 13 | 3266 | 1.620843672 | 401 | 206 | 2015 | 198 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 14 | 2636 | 1.624853603 | 423 | 166 | 1622.3 | 154 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 15 | 2792 | 1.622501162 | 370 | 176 | 1720.8 | 161 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 16 | 2778 | 1.629612248 | 376 | 174 | 1704.7 | 161 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 17 | 3471 | 1.645335609 | 447 | 216 | 2109.6 | 207 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 18 | 4640 | 1.679212507 | 632 | 283 | 2763.2 | 280 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 19 | 4554 | 1.66972208 | 602 | 279 | 2727.4 | 277 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 20 | 4166 | 1.655737053 | 546 | 258 | 2516.1 | 258 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 21 | 3066 | 1.599374022 | 379 | 196 | 1917 | 195 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 22 | 2781 | 1.570654016 | 366 | 181 | 1770.6 | 176 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 23 | 2612 | 1.570372152 | 355 | 170 | 1663.3 | 163 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 0 | 2569 | 1.56875916 | 358 | 168 | 1637.6 | 160 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 1 | 2568 | 1.570450098 | 351 | 167 | 1635.2 | 159 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 2 | 2549 | 1.553321146 | 352 | 168 | 1641 | 159 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 3 | 2542 | 1.545476654 | 352 | 168 | 1644.8 | 159 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 4 | 2516 | 1.525680674 | 352 | 169 | 1649.1 | 160 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 5 | 2544 | 1.532437805 | 351 | 170 | 1660.1 | 160 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 6 | 2545 | 1.547394662 | 350 | 168 | 1644.7 | 160 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 7 | 2593 | 1.58042299 | 354 | 168 | 1640.7 | 160 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 8 | 2684 | 1.597428878 | 366 | 172 | 1680.2 | 163 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 9 | 2787 | 1.629824561 | 393 | 175 | 1710 | 165 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 10 | 3148 | 1.655622173 | 391 | 195 | 1901.4 | 186 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 11 | 3873 | 1.668677294 | 464 | 238 | 2321 | 232 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 12 | 4984 | 1.674787459 | 690 | 305 | 2975.9 | 306 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 13 | 3984 | 1.656617739 | 526 | 246 | 2404.9 | 243 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 14 | 3897 | 1.627683569 | 517 | 245 | 2394.2 | 240 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 15 | 3882 | 1.601551219 | 526 | 248 | 2423.9 | 242 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 16 | 5581 | 1.621393917 | 991 | 353 | 3442.1 | 362 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 17 | 7446 | 1.64298323 | 2016 | 465 | 4532 | 485 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 18 | 5374 | 1.640565375 | 907 | 336 | 3275.7 | 354 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 19 | 4351 | 1.642940754 | 580 | 271 | 2648.3 | 274 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 20 | 4055 | 1.652000326 | 542 | 251 | 2454.6 | 251 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 21 | 3890 | 1.656729131 | 523 | 240 | 2348 | 240 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 22 | 3993 | 1.65 | 544 | 248 | 2420 | 246 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 23 | 2986 | 1.65337763 | 456 | 185 | 1806 | 181 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 0 | 213 | 0.070091151 | 221 | 311 | 3038.9 | 241 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 1 | 169 | 0.058811247 | 206 | 294 | 2873.6 | 226 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 2 | 186 | 0.063672463 | 219 | 299 | 2921.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 3 | 168 | 0.058616238 | 212 | 294 | 2866.1 | 227 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 4 | 158 | 0.05596288 | 211 | 289 | 2823.3 | 226 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 5 | 123 | 0.043396959 | 212 | 290 | 2834.3 | 225 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 6 | 146 | 0.051537294 | 215 | 290 | 2832.9 | 225 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 7 | 251 | 0.078883686 | 235 | 326 | 3181.9 | 259 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 8 | 1043 | 0.196155872 | 361 | 545 | 5317.2 | 500 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 9 | 2145 | 0.289649585 | 555 | 759 | 7405.5 | 741 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 10 | 1652 | 0.219214437 | 618 | 773 | 7536 | 757 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 11 | 1395 | 0.184572638 | 627 | 775 | 7558 | 757 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 12 | 1184 | 0.157677454 | 623 | 770 | 7509 | 755 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 13 | 993 | 0.133444425 | 602 | 763 | 7441.3 | 744 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 14 | 1018 | 0.136016247 | 583 | 767 | 7484.4 | 742 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 15 | 1083 | 0.144271118 | 600 | 770 | 7506.7 | 745 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 16 | 1028 | 0.136625821 | 617 | 772 | 7524.2 | 751 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 17 | 933 | 0.123906028 | 602 | 772 | 7529.9 | 748 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 18 | 886 | 0.117073429 | 613 | 776 | 7567.9 | 751 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 19 | 875 | 0.115933964 | 618 | 774 | 7547.4 | 751 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 20 | 898 | 0.120101645 | 598 | 767 | 7477 | 740 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 21 | 645 | 0.100083791 | 470 | 661 | 6444.6 | 622 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 22 | 391 | 0.074309172 | 336 | 539 | 5261.8 | 486 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 23 | 157 | 0.044212898 | 241 | 364 | 3551 | 300 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 0 | 195 | 0.06110937 | 217 | 327 | 3191 | 252 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 1 | 184 | 0.064149496 | 189 | 294 | 2868.3 | 226 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 2 | 196 | 0.067141683 | 198 | 299 | 2919.2 | 225 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 3 | 195 | 0.067204301 | 197 | 297 | 2901.6 | 226 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 4 | 183 | 0.063334948 | 190 | 296 | 2889.4 | 226 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 5 | 170 | 0.059611473 | 202 | 292 | 2851.8 | 226 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 6 | 191 | 0.066958808 | 202 | 292 | 2852.5 | 225 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 7 | 265 | 0.082833208 | 195 | 328 | 3199.2 | 260 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 8 | 702 | 0.1469357 | 286 | 490 | 4777.6 | 434 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 9 | 1465 | 0.213575531 | 493 | 703 | 6859.4 | 664 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 10 | 884 | 0.116802981 | 605 | 776 | 7568.3 | 755 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 11 | 901 | 0.118229057 | 624 | 781 | 7620.8 | 757 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 12 | 1069 | 0.139835442 | 642 | 784 | 7644.7 | 761 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 13 | 1022 | 0.134266984 | 624 | 781 | 7611.7 | 762 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 14 | 1020 | 0.134313028 | 653 | 779 | 7594.2 | 756 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 15 | 930 | 0.121573395 | 596 | 784 | 7649.7 | 760 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 16 | 863 | 0.113861256 | 621 | 777 | 7579.4 | 760 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 17 | 915 | 0.120018888 | 617 | 782 | 7623.8 | 762 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 18 | 926 | 0.121488829 | 625 | 782 | 7622.1 | 761 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 19 | 868 | 0.114460532 | 614 | 778 | 7583.4 | 755 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 20 | 890 | 0.116528752 | 618 | 783 | 7637.6 | 759 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 21 | 827 | 0.114379763 | 556 | 741 | 7230.3 | 715 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 22 | 568 | 0.09605953 | 408 | 606 | 5913 | 560 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 23 | 323 | 0.082035913 | 271 | 404 | 3937.3 | 339 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 0 | 221 | 0.074208388 | 217 | 305 | 2978.1 | 232 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 1 | 196 | 0.067118691 | 213 | 299 | 2920.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 2 | 187 | 0.06388794 | 219 | 300 | 2927 | 226 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 3 | 184 | 0.062942565 | 219 | 299 | 2923.3 | 226 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 4 | 182 | 0.062345848 | 230 | 299 | 2919.2 | 228 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 5 | 351 | 0.093443016 | 270 | 385 | 3756.3 | 315 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 6 | 525 | 0.11829653 | 266 | 455 | 4438 | 381 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 7 | 1148 | 0.189463956 | 393 | 621 | 6059.2 | 572 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 8 | 824 | 0.113969571 | 549 | 741 | 7230 | 713 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 9 | 816 | 0.107099264 | 617 | 781 | 7619.1 | 759 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 10 | 934 | 0.122381058 | 625 | 783 | 7631.9 | 760 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 11 | 1044 | 0.136865979 | 640 | 782 | 7627.9 | 761 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 12 | 964 | 0.126306963 | 618 | 783 | 7632.2 | 759 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 13 | 965 | 0.126287412 | 664 | 784 | 7641.3 | 760 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 14 | 932 | 0.121588478 | 628 | 786 | 7665.2 | 759 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 15 | 869 | 0.113538373 | 620 | 785 | 7653.8 | 761 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 16 | 923 | 0.120993642 | 625 | 782 | 7628.5 | 760 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 17 | 958 | 0.126004551 | 623 | 780 | 7602.9 | 760 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 18 | 1020 | 0.132696736 | 630 | 788 | 7686.7 | 760 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 19 | 989 | 0.128600221 | 622 | 789 | 7690.5 | 760 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 20 | 1002 | 0.130742833 | 628 | 786 | 7663.9 | 762 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 21 | 893 | 0.121494946 | 566 | 754 | 7350.1 | 726 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 22 | 966 | 0.148350636 | 475 | 668 | 6511.6 | 628 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 23 | 384 | 0.094036978 | 269 | 419 | 4083.5 | 359 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 0 | 201 | 0.067745197 | 216 | 304 | 2967 | 231 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 1 | 203 | 0.069262001 | 214 | 300 | 2930.9 | 226 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 2 | 191 | 0.065030132 | 214 | 301 | 2937.1 | 225 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 3 | 191 | 0.065419921 | 216 | 299 | 2919.6 | 226 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 4 | 189 | 0.065224143 | 223 | 297 | 2897.7 | 226 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 5 | 358 | 0.098952431 | 238 | 371 | 3617.9 | 304 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 6 | 593 | 0.132250942 | 295 | 460 | 4483.9 | 394 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 7 | 1073 | 0.195243554 | 362 | 563 | 5495.7 | 514 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 8 | 1032 | 0.157848851 | 457 | 670 | 6537.9 | 636 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 9 | 640 | 0.097230451 | 467 | 675 | 6582.3 | 646 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 10 | 867 | 0.122677685 | 537 | 725 | 7067.3 | 692 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 11 | 1208 | 0.157671474 | 620 | 786 | 7661.5 | 757 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 12 | 908 | 0.118921326 | 641 | 783 | 7635.3 | 759 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 13 | 868 | 0.11389432 | 640 | 781 | 7621.1 | 760 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 14 | 939 | 0.123052327 | 641 | 782 | 7630.9 | 759 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 15 | 989 | 0.12822175 | 632 | 791 | 7713.2 | 760 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 16 | 968 | 0.125953106 | 622 | 788 | 7685.4 | 760 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 17 | 960 | 0.12479688 | 623 | 789 | 7692.5 | 760 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 18 | 958 | 0.124125421 | 625 | 791 | 7718 | 761 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 19 | 959 | 0.125308698 | 612 | 785 | 7653.1 | 760 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 20 | 692 | 0.105983796 | 476 | 669 | 6529.3 | 639 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 21 | 450 | 0.083251623 | 351 | 554 | 5405.3 | 509 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 22 | 214 | 0.054835238 | 269 | 400 | 3902.6 | 337 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 23 | 137 | 0.046197943 | 249 | 304 | 2965.5 | 238 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 0 | 137 | 0.047628981 | 256 | 295 | 2876.4 | 226 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 1 | 119 | 0.041669585 | 231 | 293 | 2855.8 | 226 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 2 | 120 | 0.041286771 | 229 | 298 | 2906.5 | 226 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 3 | 119 | 0.041282176 | 224 | 295 | 2882.6 | 226 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 4 | 117 | 0.040964952 | 228 | 293 | 2856.1 | 226 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 5 | 121 | 0.041714069 | 226 | 297 | 2900.7 | 232 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 6 | 155 | 0.049815202 | 242 | 319 | 3111.5 | 255 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 7 | 216 | 0.062552489 | 227 | 354 | 3453.1 | 292 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 8 | 576 | 0.113717129 | 303 | 519 | 5065.2 | 470 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 9 | 1095 | 0.149610603 | 527 | 750 | 7319 | 725 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 10 | 788 | 0.104022283 | 613 | 777 | 7575.3 | 758 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 11 | 784 | 0.103516115 | 613 | 777 | 7573.7 | 759 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 12 | 908 | 0.119147596 | 632 | 781 | 7620.8 | 759 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 13 | 975 | 0.127736509 | 633 | 783 | 7632.9 | 759 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 14 | 1037 | 0.135745422 | 626 | 783 | 7639.3 | 759 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 15 | 734 | 0.096153846 | 626 | 783 | 7633.6 | 759 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 16 | 863 | 0.112481101 | 621 | 787 | 7672.4 | 760 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 17 | 1243 | 0.162905297 | 625 | 782 | 7630.2 | 761 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 18 | 1351 | 0.17714548 | 625 | 782 | 7626.5 | 761 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 19 | 1146 | 0.150851005 | 615 | 779 | 7596.9 | 760 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 20 | 959 | 0.125973702 | 609 | 781 | 7612.7 | 759 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 21 | 819 | 0.119987694 | 498 | 700 | 6825.7 | 669 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 22 | 461 | 0.098181199 | 319 | 481 | 4695.4 | 427 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 23 | 417 | 0.118658054 | 260 | 360 | 3514.3 | 293 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 0 | 242 | 0.083175803 | 264 | 298 | 2909.5 | 227 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 1 | 244 | 0.083290664 | 263 | 300 | 2929.5 | 226 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 2 | 251 | 0.086056159 | 277 | 299 | 2916.7 | 226 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 3 | 243 | 0.084106327 | 248 | 296 | 2889.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 4 | 232 | 0.080591934 | 204 | 295 | 2878.7 | 226 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 5 | 426 | 0.120669631 | 250 | 362 | 3530.3 | 297 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 6 | 569 | 0.136104865 | 267 | 428 | 4180.6 | 362 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 7 | 1013 | 0.185868149 | 348 | 559 | 5450.1 | 513 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 8 | 1288 | 0.177677229 | 543 | 743 | 7249.1 | 722 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 9 | 762 | 0.101226138 | 609 | 772 | 7527.7 | 757 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 10 | 895 | 0.118500669 | 634 | 774 | 7552.7 | 757 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 11 | 1365 | 0.181065701 | 633 | 773 | 7538.7 | 755 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 12 | 1026 | 0.134804888 | 639 | 780 | 7611 | 757 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 13 | 961 | 0.126274572 | 639 | 780 | 7610.4 | 760 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 14 | 816 | 0.108434215 | 639 | 772 | 7525.3 | 758 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 15 | 740 | 0.097881008 | 650 | 775 | 7560.2 | 758 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 16 | 772 | 0.103486642 | 626 | 765 | 7459.9 | 758 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 17 | 666 | 0.089813092 | 630 | 760 | 7415.4 | 758 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 18 | 725 | 0.104091888 | 564 | 714 | 6965 | 705 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 19 | 779 | 0.116112684 | 509 | 688 | 6709 | 675 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 20 | 568 | 0.092675684 | 459 | 628 | 6128.9 | 609 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 21 | 573 | 0.097222458 | 430 | 604 | 5893.7 | 575 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 22 | 349 | 0.064828919 | 387 | 552 | 5383.4 | 517 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 23 | 136 | 0.031847134 | 320 | 438 | 4270.4 | 393 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 0 | 103 | 0.028568259 | 270 | 369 | 3605.4 | 321 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 1 | 67 | 0.023929426 | 218 | 287 | 2799.9 | 234 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 2 | 84 | 0.030454644 | 212 | 283 | 2758.2 | 225 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 3 | 114 | 0.041134445 | 210 | 284 | 2771.4 | 226 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 4 | 124 | 0.045215869 | 211 | 281 | 2742.4 | 226 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 5 | 139 | 0.050863583 | 213 | 280 | 2732.8 | 226 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 6 | 162 | 0.058740346 | 212 | 283 | 2757.9 | 226 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 7 | 224 | 0.074453234 | 240 | 308 | 3008.6 | 254 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 8 | 548 | 0.117046498 | 295 | 480 | 4681.9 | 441 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 9 | 885 | 0.132194124 | 488 | 686 | 6694.7 | 670 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 10 | 758 | 0.103288048 | 601 | 752 | 7338.7 | 751 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 11 | 1009 | 0.135111611 | 627 | 766 | 7467.9 | 757 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 12 | 930 | 0.123311102 | 633 | 773 | 7541.9 | 758 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 13 | 919 | 0.12276577 | 628 | 768 | 7485.8 | 757 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 14 | 990 | 0.130618923 | 629 | 777 | 7579.3 | 757 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 15 | 977 | 0.129077433 | 620 | 776 | 7569.1 | 758 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 16 | 1026 | 0.135272325 | 629 | 778 | 7584.7 | 761 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 17 | 1032 | 0.135559379 | 639 | 781 | 7612.9 | 765 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 18 | 1056 | 0.13903518 | 622 | 779 | 7595.2 | 768 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 19 | 1035 | 0.137200578 | 611 | 774 | 7543.7 | 766 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 20 | 1015 | 0.134243278 | 612 | 775 | 7560.9 | 766 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 21 | 1011 | 0.136653015 | 584 | 759 | 7398.3 | 750 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 22 | 639 | 0.106322795 | 420 | 616 | 6010 | 585 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 23 | 435 | 0.096800036 | 314 | 461 | 4493.8 | 419 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 0 | 343 | 0.106205103 | 226 | 331 | 3229.6 | 277 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 1 | 293 | 0.104344729 | 207 | 288 | 2808 | 225 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 2 | 228 | 0.080699395 | 209 | 289 | 2825.3 | 225 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 3 | 175 | 0.06250893 | 207 | 287 | 2799.6 | 226 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 4 | 180 | 0.064655172 | 208 | 285 | 2784 | 226 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 5 | 171 | 0.061875814 | 212 | 283 | 2763.6 | 226 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 6 | 175 | 0.063578565 | 198 | 282 | 2752.5 | 225 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 7 | 247 | 0.079963741 | 234 | 316 | 3088.9 | 265 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 8 | 775 | 0.154330207 | 341 | 515 | 5021.7 | 484 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 9 | 1204 | 0.170780142 | 528 | 723 | 7050 | 707 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 10 | 916 | 0.123347068 | 586 | 761 | 7426.2 | 757 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 11 | 810 | 0.108870968 | 602 | 763 | 7440 | 757 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 12 | 910 | 0.122649774 | 593 | 761 | 7419.5 | 758 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 13 | 1066 | 0.141777943 | 639 | 771 | 7518.8 | 758 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 14 | 1112 | 0.147276965 | 588 | 774 | 7550.4 | 757 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 15 | 1031 | 0.135888548 | 599 | 778 | 7587.1 | 757 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 16 | 973 | 0.128479375 | 605 | 777 | 7573.2 | 758 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 17 | 952 | 0.125927592 | 604 | 775 | 7559.9 | 758 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 18 | 964 | 0.127024285 | 629 | 778 | 7589.1 | 759 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 19 | 965 | 0.127087394 | 637 | 779 | 7593.2 | 757 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 20 | 987 | 0.129752327 | 608 | 780 | 7606.8 | 759 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 21 | 1025 | 0.135309959 | 613 | 777 | 7575.2 | 757 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 22 | 792 | 0.118545128 | 494 | 685 | 6681 | 667 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 23 | 464 | 0.086096525 | 377 | 552 | 5389.3 | 515 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 0 | 219 | 0.054106137 | 299 | 415 | 4047.6 | 360 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 1 | 307 | 0.077452885 | 285 | 406 | 3963.7 | 352 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 2 | 327 | 0.082749197 | 280 | 405 | 3951.7 | 348 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 3 | 148 | 0.048053508 | 258 | 316 | 3079.9 | 253 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 4 | 136 | 0.046525948 | 245 | 299 | 2923.1 | 234 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 5 | 269 | 0.074915755 | 244 | 368 | 3590.7 | 314 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 6 | 392 | 0.088547549 | 247 | 454 | 4427 | 398 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 7 | 638 | 0.117182478 | 332 | 558 | 5444.5 | 523 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 8 | 1131 | 0.160055475 | 494 | 725 | 7066.3 | 711 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 9 | 1020 | 0.137633248 | 570 | 760 | 7411 | 751 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 10 | 937 | 0.125695888 | 581 | 764 | 7454.5 | 755 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 11 | 1082 | 0.145435972 | 587 | 763 | 7439.7 | 751 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 12 | 1236 | 0.165926085 | 588 | 764 | 7449.1 | 748 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 13 | 1093 | 0.146735045 | 581 | 764 | 7448.8 | 749 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 14 | 1076 | 0.143694662 | 591 | 768 | 7488.1 | 752 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 15 | 1105 | 0.145517278 | 615 | 779 | 7593.6 | 758 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 16 | 1199 | 0.158102246 | 621 | 778 | 7583.7 | 759 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 17 | 1157 | 0.151741685 | 640 | 782 | 7624.8 | 761 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 18 | 1106 | 0.144948429 | 648 | 782 | 7630.3 | 763 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 19 | 1095 | 0.143519975 | 633 | 782 | 7629.6 | 764 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 20 | 1133 | 0.149657887 | 628 | 776 | 7570.6 | 757 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 21 | 1004 | 0.140172563 | 551 | 734 | 7162.6 | 714 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 22 | 836 | 0.131566523 | 457 | 651 | 6354.2 | 622 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 23 | 482 | 0.102118644 | 344 | 484 | 4720 | 436 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 0 | 337 | 0.098818286 | 259 | 349 | 3410.3 | 296 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 1 | 190 | 0.067678279 | 247 | 288 | 2807.4 | 225 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 2 | 138 | 0.047701348 | 274 | 296 | 2893 | 225 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 3 | 131 | 0.045898882 | 256 | 292 | 2854.1 | 227 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 4 | 153 | 0.051713648 | 260 | 303 | 2958.6 | 244 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 5 | 338 | 0.08579769 | 279 | 404 | 3939.5 | 355 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 6 | 547 | 0.111409833 | 279 | 503 | 4909.8 | 458 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 7 | 738 | 0.125367354 | 382 | 604 | 5886.7 | 573 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 8 | 990 | 0.142415306 | 514 | 713 | 6951.5 | 697 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 9 | 941 | 0.126568658 | 565 | 762 | 7434.7 | 750 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 10 | 973 | 0.131091441 | 593 | 761 | 7422.3 | 750 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 11 | 1101 | 0.147245664 | 613 | 767 | 7477.3 | 754 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 12 | 1290 | 0.172674582 | 590 | 766 | 7470.7 | 753 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 13 | 1334 | 0.178311256 | 591 | 767 | 7481.3 | 755 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 14 | 1208 | 0.16133125 | 599 | 768 | 7487.7 | 755 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 15 | 1164 | 0.155255892 | 622 | 769 | 7497.3 | 755 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 16 | 1162 | 0.154140026 | 633 | 773 | 7538.6 | 756 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 17 | 1184 | 0.156192285 | 636 | 777 | 7580.4 | 761 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 18 | 1194 | 0.157045338 | 646 | 780 | 7602.9 | 763 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 19 | 1179 | 0.155795761 | 635 | 776 | 7567.6 | 761 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 20 | 1125 | 0.147837628 | 639 | 780 | 7609.7 | 762 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 21 | 955 | 0.131096682 | 582 | 747 | 7284.7 | 727 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 22 | 742 | 0.114596364 | 485 | 664 | 6474.9 | 636 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 23 | 410 | 0.080222274 | 357 | 524 | 5110.8 | 474 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 0 | 153 | 0.045476162 | 289 | 345 | 3364.4 | 281 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 1 | 126 | 0.044221388 | 279 | 292 | 2849.3 | 226 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 2 | 145 | 0.050761421 | 279 | 293 | 2856.5 | 226 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 3 | 152 | 0.054123344 | 266 | 288 | 2808.4 | 226 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 4 | 192 | 0.059681079 | 296 | 330 | 3217.1 | 271 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 5 | 426 | 0.095125382 | 322 | 459 | 4478.3 | 418 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 6 | 747 | 0.127792794 | 344 | 599 | 5845.4 | 564 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 7 | 956 | 0.137623264 | 500 | 712 | 6946.5 | 703 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 8 | 964 | 0.129326536 | 581 | 764 | 7454 | 759 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 9 | 1048 | 0.140420457 | 619 | 765 | 7463.3 | 761 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 10 | 1181 | 0.15675812 | 587 | 773 | 7533.9 | 762 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 11 | 1250 | 0.165635311 | 603 | 774 | 7546.7 | 761 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 12 | 1188 | 0.15669309 | 636 | 777 | 7581.7 | 763 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 13 | 1133 | 0.149964924 | 627 | 775 | 7555.1 | 760 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 14 | 1150 | 0.151116951 | 616 | 780 | 7610 | 761 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 15 | 1169 | 0.15374903 | 623 | 780 | 7603.3 | 762 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 16 | 1135 | 0.149868617 | 545 | 777 | 7573.3 | 759 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 17 | 1162 | 0.153229422 | 599 | 778 | 7583.4 | 759 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 18 | 1172 | 0.154940377 | 605 | 776 | 7564.2 | 761 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 19 | 1239 | 0.163585952 | 605 | 777 | 7574 | 761 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 20 | 1081 | 0.142497462 | 606 | 778 | 7586.1 | 760 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 21 | 1068 | 0.140757825 | 599 | 778 | 7587.5 | 761 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 22 | 815 | 0.118196453 | 503 | 707 | 6895.3 | 686 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 23 | 568 | 0.097504034 | 402 | 597 | 5825.4 | 566 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 0 | 313 | 0.066969062 | 285 | 479 | 4673.8 | 430 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 1 | 167 | 0.049785357 | 211 | 344 | 3354.4 | 290 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 2 | 122 | 0.04305781 | 201 | 290 | 2833.4 | 225 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 3 | 138 | 0.0491488 | 193 | 288 | 2807.8 | 226 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 4 | 189 | 0.063367532 | 211 | 306 | 2982.6 | 250 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 5 | 693 | 0.15130674 | 274 | 469 | 4580.1 | 437 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 6 | 1144 | 0.186571424 | 392 | 629 | 6131.7 | 609 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 7 | 1125 | 0.159608427 | 542 | 723 | 7048.5 | 720 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 8 | 1025 | 0.138022972 | 601 | 761 | 7426.3 | 760 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 9 | 937 | 0.125463626 | 612 | 766 | 7468.3 | 761 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 10 | 1383 | 0.185190145 | 627 | 766 | 7468 | 761 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 11 | 1405 | 0.18627282 | 626 | 773 | 7542.7 | 760 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 12 | 1223 | 0.161509713 | 620 | 776 | 7572.3 | 760 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 13 | 773 | 0.102309576 | 612 | 775 | 7555.5 | 760 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 14 | 476 | 0.063289456 | 624 | 771 | 7521 | 760 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 15 | 673 | 0.08928453 | 625 | 773 | 7537.7 | 761 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 16 | 637 | 0.084752528 | 616 | 771 | 7516 | 760 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 17 | 499 | 0.065618178 | 616 | 780 | 7604.6 | 761 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 18 | 421 | 0.055321945 | 624 | 780 | 7610 | 760 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 19 | 390 | 0.05141456 | 614 | 778 | 7585.4 | 761 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 20 | 369 | 0.049831195 | 599 | 759 | 7405 | 744 |

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|----|---------------|---|------|-----------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 21 | 263 | 0.039918039 | 487 | 676 | 6588.5 | 655 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 22 | 139 | 0.023263598 | 412 | 613 | 5975 | 584 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 23 | 76 | 0.015595182 | 326 | 500 | 4873.3 | 456 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 0 | 32 | 0.008790484 | 218 | 373 | 3640.3 | 316 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 1 | 20 | 0.007121493 | 202 | 288 | 2808.4 | 225 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 2 | 35 | 0.012410467 | 200 | 289 | 2820.2 | 225 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 3 | 44 | 0.015651122 | 202 | 288 | 2811.3 | 226 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 4 | 50 | 0.017281902 | 211 | 296 | 2893.2 | 238 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 5 | 108 | 0.02781283 | 283 | 398 | 3883.1 | 352 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 6 | 261 | 0.046265932 | 321 | 578 | 5641.3 | 549 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 7 | 404 | 0.063623049 | 450 | 651 | 6349.9 | 629 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 8 | 440 | 0.063325753 | 535 | 712 | 6948.2 | 698 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 9 | 438 | 0.05846236 | 621 | 768 | 7492 | 754 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 10 | 441 | 0.058829022 | 614 | 769 | 7496.3 | 757 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 11 | 461 | 0.060629176 | 638 | 780 | 7603.6 | 761 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 12 | 450 | 0.059442823 | 635 | 776 | 7570.3 | 761 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 13 | 450 | 0.059358141 | 629 | 777 | 7581.1 | 763 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 14 | 463 | 0.061149559 | 636 | 776 | 7571.6 | 763 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 15 | 498 | 0.06590091 | 627 | 775 | 7556.8 | 758 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 16 | 532 | 0.070324789 | 627 | 776 | 7564.9 | 763 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 17 | 558 | 0.073594387 | 629 | 777 | 7582.1 | 761 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 18 | 578 | 0.076330837 | 620 | 776 | 7572.3 | 761 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 19 | 595 | 0.078593506 | 628 | 776 | 7570.6 | 761 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 20 | 563 | 0.076816024 | 579 | 752 | 7329.2 | 731 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 21 | 360 | 0.061251574 | 434 | 603 | 5877.4 | 566 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 22 | 323 | 0.059430716 | 326 | 557 | 5434.9 | 509 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 23 | 228 | 0.048980644 | 293 | 477 | 4654.9 | 418 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 0 | 85 | 0.0266074 | 217 | 327 | 3194.6 | 264 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 1 | 87 | 0.028074478 | 216 | 317 | 3098.9 | 251 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 2 | 80 | 0.02736446 | 219 | 300 | 2923.5 | 237 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 3 | 65 | 0.023100434 | 205 | 288 | 2813.8 | 225 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 4 | 59 | 0.021184919 | 200 | 285 | 2785 | 225 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 5 | 55 | 0.019535412 | 214 | 288 | 2815.4 | 225 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 6 | 74 | 0.026482482 | 209 | 286 | 2794.3 | 225 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 7 | 114 | 0.033879164 | 245 | 345 | 3364.9 | 289 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 8 | 475 | 0.079477955 | 400 | 613 | 5976.5 | 584 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 9 | 747 | 0.099763612 | 591 | 768 | 7487.7 | 757 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 10 | 968 | 0.1286926 | 616 | 771 | 7521.8 | 760 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 11 | 1315 | 0.174130671 | 634 | 774 | 7551.8 | 763 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 12 | 1077 | 0.142360514 | 627 | 776 | 7565.3 | 759 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 13 | 1126 | 0.149404241 | 618 | 773 | 7536.6 | 760 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 14 | 1128 | 0.149342654 | 626 | 774 | 7553.1 | 763 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 15 | 873 | 0.127166788 | 521 | 704 | 6865 | 686 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 16 | 964 | 0.14719355 | 484 | 671 | 6549.2 | 641 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 17 | 1337 | 0.189100887 | 544 | 725 | 7070.3 | 697 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 18 | 1165 | 0.152865072 | 632 | 781 | 7621.1 | 764 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 19 | 1037 | 0.136648746 | 622 | 778 | 7588.8 | 761 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 20 | 1144 | 0.149903035 | 633 | 783 | 7631.6 | 763 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 21 | 985 | 0.139841277 | 549 | 722 | 7043.7 | 703 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 22 | 692 | 0.119197313 | 394 | 595 | 5805.5 | 558 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 23 | 405 | 0.092410898 | 271 | 449 | 4382.6 | 395 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 0 | 221 | 0.056925019 | 225 | 398 | 3882.3 | 333 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 1 | 83 | 0.028292882 | 214 | 301 | 2933.6 | 230 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 2 | 81 | 0.028237755 | 206 | 294 | 2868.5 | 226 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 3 | 91 | 0.032267215 | 205 | 289 | 2820.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 4 | 94 | 0.033729233 | 203 | 285 | 2786.9 | 226 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 5 | 105 | 0.037743988 | 214 | 285 | 2781.9 | 225 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 6 | 123 | 0.044070226 | 198 | 286 | 2791 | 225 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 7 | 168 | 0.052542691 | 217 | 328 | 3197.4 | 271 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 8 | 448 | 0.092205734 | 306 | 498 | 4858.7 | 457 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 9 | 918 | 0.126301886 | 537 | 745 | 7268.3 | 725 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 10 | 717 | 0.094860091 | 619 | 775 | 7558.5 | 759 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 11 | 589 | 0.078344263 | 631 | 771 | 7518.1 | 760 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 12 | 581 | 0.077196992 | 602 | 772 | 7526.2 | 754 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 13 | 627 | 0.083101392 | 664 | 774 | 7545 | 755 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 14 | 657 | 0.086563546 | 607 | 778 | 7589.8 | 758 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 15 | 484 | 0.063863196 | 636 | 777 | 7578.7 | 758 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 16 | 370 | 0.049679767 | 625 | 764 | 7447.7 | 756 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 17 | 322 | 0.047677569 | 594 | 692 | 6753.7 | 671 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 18 | 597 | 0.087104964 | 603 | 703 | 6853.8 | 679 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 19 | 624 | 0.091890379 | 604 | 696 | 6790.7 | 669 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 20 | 501 | 0.081625338 | 399 | 629 | 6137.8 | 596 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 21 | 251 | 0.048795661 | 339 | 527 | 5143.9 | 485 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 22 | 115 | 0.026820281 | 278 | 439 | 4287.8 | 382 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 23 | 41 | 0.014240561 | 224 | 295 | 2879.1 | 231 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 0 | 36 | 0.012804553 | 210 | 288 | 2811.5 | 226 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 1 | 34 | 0.012263743 | 224 | 284 | 2772.4 | 225 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 2 | 36 | 0.012990762 | 216 | 284 | 2771.2 | 225 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 3 | 37 | 0.013426716 | 206 | 282 | 2755.7 | 226 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 4 | 37 | 0.013094564 | 220 | 289 | 2825.6 | 234 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 5 | 54 | 0.017021813 | 241 | 325 | 3172.4 | 273 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 6 | 71 | 0.023066177 | 221 | 315 | 3078.1 | 257 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 7 | 197 | 0.045725692 | 305 | 442 | 4308.3 | 410 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 8 | 455 | 0.065552514 | 541 | 712 | 6941 | 706 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 9 | 400 | 0.054587388 | 600 | 751 | 7327.7 | 754 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 10 | 353 | 0.047592725 | 615 | 761 | 7417.1 | 754 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 11 | 392 | 0.052942209 | 629 | 759 | 7404.3 | 757 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 12 | 361 | 0.048542384 | 639 | 763 | 7436.8 | 760 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 13 | 328 | 0.044173299 | 638 | 761 | 7425.3 | 760 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 14 | 504 | 0.068270481 | 627 | 757 | 7382.4 | 757 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 15 | 1358 | 0.18365001 | 628 | 758 | 7394.5 | 758 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 16 | 1185 | 0.160610455 | 619 | 757 | 7378.1 | 758 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 17 | 972 | 0.132115479 | 610 | 754 | 7357.2 | 757 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 18 | 1090 | 0.147856755 | 611 | 756 | 7372 | 757 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 19 | 1179 | 0.159710651 | 620 | 757 | 7382.1 | 763 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 20 | 982 | 0.137708596 | 577 | 731 | 7131 | 741 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 21 | 506 | 0.087954111 | 431 | 590 | 5753 | 584 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 22 | 325 | 0.067737969 | 316 | 492 | 4797.9 | 467 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 23 | 161 | 0.050446499 | 201 | 327 | 3191.5 | 284 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 0 | 135 | 0.050597804 | 184 | 273 | 2668.1 | 225 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 1 | 153 | 0.057607591 | 183 | 272 | 2655.9 | 225 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 2 | 139 | 0.051898592 | 187 | 274 | 2678.3 | 225 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 3 | 133 | 0.050184892 | 190 | 271 | 2650.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 4 | 235 | 0.077076979 | 213 | 312 | 3048.9 | 279 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 5 | 1155 | 0.194470636 | 380 | 609 | 5939.2 | 621 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 6 | 1094 | 0.159920478 | 533 | 701 | 6840.9 | 747 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 7 | 793 | 0.113967894 | 577 | 713 | 6958.1 | 762 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 8 | 741 | 0.105076574 | 578 | 723 | 7052 | 763 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 9 | 755 | 0.106578204 | 580 | 726 | 7084 | 762 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 10 | 848 | 0.118568233 | 593 | 733 | 7152 | 760 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 11 | 963 | 0.133213446 | 600 | 741 | 7229 | 762 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 12 | 998 | 0.135450597 | 604 | 756 | 7368 | 765 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 13 | 938 | 0.126907674 | 606 | 758 | 7391.2 | 763 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 14 | 809 | 0.108859465 | 624 | 762 | 7431.6 | 767 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 15 | 419 | 0.056396037 | 631 | 762 | 7429.6 | 766 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 16 | 313 | 0.04218272 | 630 | 761 | 7420.1 | 765 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 17 | 321 | 0.042996638 | 649 | 766 | 7465.7 | 767 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 18 | 328 | 0.043858476 | 635 | 767 | 7478.6 | 768 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 19 | 346 | 0.047305889 | 614 | 750 | 7314.1 | 759 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 20 | 323 | 0.045810404 | 578 | 723 | 7050.8 | 735 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 21 | 234 | 0.038818201 | 458 | 618 | 6028.1 | 614 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 22 | 186 | 0.034375058 | 378 | 555 | 5410.9 | 544 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 23 | 75 | 0.020153706 | 267 | 381 | 3721.4 | 360 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 0 | 35 | 0.012816288 | 185 | 280 | 2730.9 | 239 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 1 | 33 | 0.012718724 | 176 | 266 | 2594.6 | 226 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 2 | 34 | 0.013210553 | 175 | 264 | 2573.7 | 225 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 3 | 39 | 0.015114522 | 185 | 264 | 2580.3 | 225 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 4 | 39 | 0.015129767 | 170 | 264 | 2577.7 | 226 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 5 | 63 | 0.023430527 | 180 | 275 | 2688.8 | 246 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 6 | 95 | 0.034803634 | 188 | 280 | 2729.6 | 251 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 7 | 134 | 0.047899911 | 190 | 287 | 2797.5 | 257 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 8 | 266 | 0.06879251 | 270 | 396 | 3866.7 | 381 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 9 | 433 | 0.077057232 | 376 | 576 | 5619.2 | 579 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 10 | 362 | 0.062728517 | 421 | 592 | 5770.9 | 582 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 11 | 358 | 0.060030854 | 423 | 611 | 5963.6 | 606 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 12 | 571 | 0.080771788 | 537 | 725 | 7069.3 | 740 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 13 | 731 | 0.100867933 | 623 | 743 | 7247.1 | 755 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 14 | 553 | 0.07690703 | 604 | 737 | 7190.5 | 750 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 15 | 964 | 0.133366537 | 585 | 741 | 7228.2 | 748 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 16 | 1446 | 0.201769319 | 580 | 735 | 7166.6 | 752 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 17 | 1390 | 0.193028746 | 655 | 738 | 7201 | 755 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 18 | 1267 | 0.174782729 | 608 | 743 | 7249 | 755 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 19 | 1279 | 0.180428005 | 595 | 727 | 7088.7 | 754 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 20 | 1047 | 0.163285039 | 513 | 657 | 6412.1 | 684 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 21 | 849 | 0.150858239 | 410 | 577 | 5627.8 | 590 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 22 | 852 | 0.158733116 | 397 | 550 | 5367.5 | 559 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 23 | 478 | 0.108557413 | 308 | 451 | 4403.2 | 453 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 0 | 167 | 0.056426544 | 236 | 303 | 2959.6 | 279 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 1 | 149 | 0.060000805 | 213 | 254 | 2483.3 | 225 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 2 | 142 | 0.057930809 | 205 | 251 | 2451.2 | 225 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 3 | 127 | 0.052057714 | 204 | 250 | 2439.6 | 225 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 4 | 127 | 0.05126963 | 210 | 254 | 2477.1 | 226 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 5 | 276 | 0.086596386 | 255 | 327 | 3187.2 | 319 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 6 | 291 | 0.082557876 | 257 | 361 | 3524.8 | 355 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 7 | 375 | 0.096013519 | 285 | 400 | 3905.7 | 398 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 8 | 1009 | 0.179167555 | 399 | 577 | 5631.6 | 601 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 9 | 1283 | 0.18489163 | 569 | 712 | 6939.2 | 750 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 10 | 895 | 0.125799424 | 604 | 729 | 7114.5 | 754 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 11 | 1021 | 0.139442775 | 622 | 751 | 7322 | 753 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 12 | 1187 | 0.161239931 | 640 | 755 | 7361.7 | 751 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 13 | 1201 | 0.163439163 | 632 | 753 | 7348.3 | 750 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 14 | 947 | 0.127689984 | 630 | 760 | 7416.4 | 749 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 15 | 859 | 0.11586032 | 630 | 760 | 7414.1 | 750 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 16 | 1146 | 0.154102681 | 632 | 763 | 7436.6 | 751 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 17 | 1145 | 0.152018056 | 632 | 772 | 7532 | 756 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 18 | 896 | 0.119487378 | 644 | 769 | 7498.7 | 756 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 19 | 817 | 0.109209999 | 628 | 767 | 7481 | 756 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 20 | 748 | 0.104939744 | 570 | 731 | 7127.9 | 724 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 21 | 654 | 0.103430279 | 467 | 648 | 6323.1 | 634 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 22 | 560 | 0.102072435 | 384 | 562 | 5486.3 | 536 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 23 | 241 | 0.06262831 | 269 | 394 | 3848.1 | 343 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 0 | 129 | 0.045647558 | 203 | 290 | 2826 | 238 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 1 | 150 | 0.054261323 | 201 | 283 | 2764.4 | 227 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 2 | 144 | 0.052417006 | 195 | 281 | 2747.2 | 227 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 3 | 144 | 0.052783989 | 201 | 279 | 2728.1 | 227 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 4 | 144 | 0.052836281 | 199 | 279 | 2725.4 | 227 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 5 | 177 | 0.058718153 | 214 | 309 | 3014.4 | 262 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 6 | 308 | 0.080101948 | 257 | 394 | 3845.1 | 355 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 7 | 251 | 0.064851178 | 282 | 397 | 3870.4 | 359 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 8 | 339 | 0.075504477 | 282 | 460 | 4489.8 | 433 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 9 | 894 | 0.138707876 | 483 | 661 | 6445.2 | 649 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 10 | 1083 | 0.146027722 | 630 | 760 | 7416.4 | 761 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 11 | 919 | 0.124791223 | 567 | 755 | 7364.3 | 765 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 12 | 774 | 0.103517454 | 672 | 767 | 7477 | 765 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 13 | 824 | 0.110848041 | 691 | 762 | 7433.6 | 763 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 14 | 1080 | 0.144013441 | 674 | 769 | 7499.3 | 763 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 15 | 992 | 0.13222083 | 675 | 769 | 7502.6 | 763 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 16 | 499 | 0.065858069 | 712 | 777 | 7576.9 | 765 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 17 | 403 | 0.053502204 | 715 | 772 | 7532.4 | 762 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 18 | 370 | 0.048924973 | 741 | 775 | 7562.6 | 768 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 19 | 403 | 0.053541299 | 722 | 772 | 7526.9 | 764 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 20 | 698 | 0.093957383 | 698 | 762 | 7428.9 | 762 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 21 | 885 | 0.124899445 | 623 | 727 | 7085.7 | 730 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 22 | 726 | 0.116351748 | 492 | 640 | 6239.7 | 627 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 23 | 414 | 0.079526682 | 385 | 534 | 5205.8 | 505 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 0 | 263 | 0.065541904 | 284 | 411 | 4012.7 | 373 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 1 | 130 | 0.047816971 | 206 | 278 | 2718.7 | 230 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 2 | 163 | 0.060545279 | 196 | 276 | 2692.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 3 | 142 | 0.052967287 | 198 | 275 | 2680.9 | 226 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 4 | 133 | 0.049549214 | 212 | 275 | 2684.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 5 | 120 | 0.045539069 | 189 | 270 | 2635.1 | 226 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 6 | 164 | 0.062590642 | 193 | 268 | 2620.2 | 225 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 7 | 247 | 0.080359176 | 230 | 315 | 3073.7 | 278 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 8 | 686 | 0.137546617 | 359 | 511 | 4987.4 | 490 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 9 | 1210 | 0.172389229 | 568 | 720 | 7019 | 710 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 10 | 994 | 0.133042442 | 650 | 766 | 7471.3 | 763 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 11 | 962 | 0.128302591 | 674 | 769 | 7497.9 | 765 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 12 | 1102 | 0.146690805 | 668 | 770 | 7512.4 | 764 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 13 | 1177 | 0.157033835 | 689 | 769 | 7495.2 | 764 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 14 | 1128 | 0.149958123 | 677 | 771 | 7522.1 | 764 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 15 | 1123 | 0.148501759 | 665 | 775 | 7562.2 | 764 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 16 | 1072 | 0.14199804 | 656 | 774 | 7549.4 | 763 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 17 | 1036 | 0.137868626 | 638 | 771 | 7514.4 | 764 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 18 | 1091 | 0.14522076 | 646 | 770 | 7512.7 | 764 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 19 | 1106 | 0.147561106 | 644 | 769 | 7495.2 | 760 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 20 | 995 | 0.140140845 | 596 | 728 | 7100 | 716 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 21 | 844 | 0.129144798 | 503 | 670 | 6535.3 | 646 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 22 | 813 | 0.136379649 | 447 | 611 | 5961.3 | 577 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 23 | 533 | 0.110863823 | 312 | 493 | 4807.7 | 446 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 0 | 425 | 0.119866877 | 251 | 363 | 3545.6 | 306 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 1 | 193 | 0.068903963 | 218 | 287 | 2801 | 226 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 2 | 165 | 0.059993455 | 206 | 282 | 2750.3 | 226 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 3 | 173 | 0.062991553 | 206 | 281 | 2746.4 | 226 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 4 | 169 | 0.061936524 | 207 | 280 | 2728.6 | 226 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 5 | 158 | 0.058481697 | 202 | 277 | 2701.7 | 226 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 6 | 170 | 0.060442295 | 210 | 288 | 2812.6 | 238 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 7 | 483 | 0.100982647 | 363 | 490 | 4783 | 470 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 8 | 1074 | 0.147218072 | 620 | 748 | 7295.3 | 758 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 9 | 790 | 0.106268496 | 639 | 762 | 7434 | 764 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 10 | 677 | 0.090122471 | 676 | 770 | 7512 | 764 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 11 | 584 | 0.077395073 | 679 | 774 | 7545.7 | 762 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 12 | 836 | 0.111799083 | 702 | 767 | 7477.7 | 757 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 13 | 965 | 0.129781053 | 691 | 762 | 7435.6 | 759 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 14 | 592 | 0.082539771 | 638 | 735 | 7172.3 | 728 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 15 | 594 | 0.080048514 | 682 | 761 | 7420.5 | 761 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 16 | 954 | 0.127780978 | 671 | 766 | 7465.9 | 756 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 17 | 994 | 0.132452096 | 667 | 770 | 7504.6 | 761 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 18 | 822 | 0.109375416 | 668 | 771 | 7515.4 | 764 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 19 | 819 | 0.108751942 | 655 | 772 | 7530.9 | 766 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 20 | 873 | 0.116271326 | 660 | 770 | 7508.3 | 765 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 21 | 915 | 0.12156399 | 647 | 772 | 7526.9 | 766 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 22 | 679 | 0.106309692 | 498 | 655 | 6387 | 635 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 23 | 514 | 0.095720511 | 375 | 550 | 5369.8 | 512 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 0 | 568 | 0.127477164 | 320 | 457 | 4455.7 | 415 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 1 | 302 | 0.09001222 | 268 | 344 | 3355.1 | 297 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 2 | 202 | 0.072222818 | 246 | 287 | 2796.9 | 227 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 3 | 201 | 0.074315081 | 229 | 277 | 2704.7 | 227 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 4 | 219 | 0.077077394 | 233 | 291 | 2841.3 | 244 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 5 | 731 | 0.162166959 | 320 | 462 | 4507.7 | 442 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 6 | 1029 | 0.177913792 | 404 | 593 | 5783.7 | 582 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 7 | 830 | 0.142123288 | 449 | 599 | 5840 | 587 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 8 | 1008 | 0.14662458 | 556 | 705 | 6874.7 | 706 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 9 | 908 | 0.124286516 | 621 | 749 | 7305.7 | 754 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 10 | 834 | 0.114640751 | 647 | 746 | 7274.9 | 758 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 11 | 841 | 0.114111262 | 641 | 756 | 7370 | 761 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 12 | 933 | 0.126640696 | 641 | 755 | 7367.3 | 758 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 13 | 1003 | 0.13617911 | 648 | 755 | 7365.3 | 759 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 14 | 993 | 0.136839059 | 624 | 744 | 7256.7 | 760 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 15 | 967 | 0.132044297 | 637 | 751 | 7323.3 | 765 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 16 | 993 | 0.135841313 | 628 | 750 | 7310 | 763 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 17 | 1320 | 0.180394408 | 629 | 750 | 7317.3 | 762 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 18 | 1461 | 0.199516572 | 629 | 751 | 7322.7 | 762 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 19 | 1233 | 0.167625107 | 632 | 754 | 7355.7 | 763 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 20 | 1011 | 0.140099497 | 613 | 740 | 7216.3 | 752 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 21 | 766 | 0.122456157 | 487 | 641 | 6255.3 | 642 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 22 | 740 | 0.135201798 | 388 | 561 | 5473.3 | 545 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 23 | 847 | 0.182937365 | 314 | 475 | 4630 | 451 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 0 | 569 | 0.139505235 | 273 | 418 | 4078.7 | 387 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 1 | 216 | 0.074380165 | 220 | 298 | 2904 | 260 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 2 | 210 | 0.079984765 | 202 | 269 | 2625.5 | 226 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 3 | 202 | 0.077394636 | 201 | 267 | 2610 | 226 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 4 | 320 | 0.106298166 | 240 | 308 | 3010.4 | 275 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 5 | 1123 | 0.220906444 | 335 | 521 | 5083.6 | 515 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 6 | 1228 | 0.178938319 | 521 | 704 | 6862.7 | 697 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 7 | 1108 | 0.152024478 | 604 | 747 | 7288.3 | 742 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 8 | 851 | 0.115840627 | 646 | 753 | 7346.3 | 765 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 9 | 759 | 0.103317316 | 646 | 753 | 7346.3 | 764 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 10 | 784 | 0.108357635 | 651 | 742 | 7235.3 | 765 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 11 | 834 | 0.116183497 | 646 | 736 | 7178.3 | 761 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 12 | 981 | 0.135315944 | 638 | 743 | 7249.7 | 762 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 13 | 1060 | 0.146936512 | 649 | 740 | 7214 | 762 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 14 | 915 | 0.127277786 | 639 | 737 | 7189 | 765 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 15 | 821 | 0.113496551 | 636 | 742 | 7233.7 | 764 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 16 | 783 | 0.108715272 | 641 | 739 | 7202.3 | 761 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 17 | 789 | 0.111053246 | 632 | 728 | 7104.7 | 762 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 18 | 777 | 0.111006343 | 623 | 718 | 6999.6 | 763 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 19 | 729 | 0.104646656 | 613 | 714 | 6966.3 | 759 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 20 | 768 | 0.110154905 | 613 | 715 | 6972 | 763 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 21 | 867 | 0.124224492 | 614 | 716 | 6979.3 | 762 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 22 | 975 | 0.139106863 | 609 | 719 | 7009 | 764 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 23 | 772 | 0.119689922 | 522 | 661 | 6450 | 692 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 0 | 433 | 0.083539126 | 393 | 531 | 5183.2 | 531 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 1 | 705 | 0.146247355 | 298 | 494 | 4820.6 | 387 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 2 | 610 | 0.146167302 | 279 | 428 | 4173.3 | 267 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 3 | 569 | 0.146174793 | 284 | 399 | 3892.6 | 236 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 4 | 626 | 0.14621727 | 286 | 439 | 4281.3 | 292 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 5 | 811 | 0.146305383 | 376 | 568 | 5543.2 | 585 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 6 | 973 | 0.146265202 | 532 | 682 | 6652.3 | 754 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 7 | 966 | 0.146208567 | 528 | 677 | 6607 | 752 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 8 | 1409 | 0.206093583 | 553 | 701 | 6836.7 | 755 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 9 | 901 | 0.142122531 | 526 | 650 | 6339.6 | 704 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 10 | 482 | 0.089269178 | 415 | 554 | 5399.4 | 588 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 11 | 475 | 0.078620256 | 477 | 619 | 6041.7 | 654 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 12 | 631 | 0.09081358 | 611 | 712 | 6948.3 | 763 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 13 | 909 | 0.131079931 | 610 | 711 | 6934.7 | 760 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 14 | 1039 | 0.149403966 | 612 | 713 | 6954.3 | 753 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 15 | 901 | 0.128763952 | 601 | 717 | 6997.3 | 757 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 16 | 765 | 0.108055426 | 630 | 726 | 7079.7 | 760 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 17 | 690 | 0.097650722 | 635 | 725 | 7066 | 763 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 18 | 616 | 0.087416805 | 627 | 723 | 7046.7 | 762 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 19 | 645 | 0.09165447 | 640 | 722 | 7037.3 | 762 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 20 | 928 | 0.130801866 | 638 | 727 | 7094.7 | 760 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 21 | 1043 | 0.14728934 | 609 | 726 | 7081.3 | 757 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 22 | 927 | 0.131141511 | 615 | 725 | 7068.7 | 751 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 23 | 490 | 0.090139809 | 424 | 557 | 5436 | 564 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 0 | 143 | 0.042807963 | 257 | 342 | 3340.5 | 305 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 1 | 474 | 0.129571921 | 267 | 375 | 3658.2 | 225 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 2 | 471 | 0.129342304 | 265 | 373 | 3641.5 | 226 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 3 | 466 | 0.129383347 | 262 | 369 | 3601.7 | 226 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 4 | 471 | 0.129413381 | 265 | 373 | 3639.5 | 231 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 5 | 551 | 0.129415633 | 259 | 436 | 4257.6 | 411 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 6 | 590 | 0.129516618 | 277 | 467 | 4555.4 | 476 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 7 | 728 | 0.129581175 | 421 | 576 | 5618.1 | 653 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 8 | 812 | 0.129458094 | 508 | 643 | 6272.3 | 759 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 9 | 1401 | 0.19313216 | 623 | 744 | 7254.1 | 762 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 10 | 1212 | 0.164243221 | 664 | 757 | 7379.3 | 764 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 11 | 896 | 0.121315515 | 686 | 757 | 7385.7 | 766 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 12 | 810 | 0.110144139 | 647 | 754 | 7354 | 759 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 13 | 945 | 0.12714772 | 676 | 762 | 7432.3 | 760 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 14 | 1675 | 0.228534785 | 667 | 752 | 7329.3 | 760 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 15 | 1654 | 0.22464585 | 655 | 755 | 7362.7 | 763 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 16 | 1451 | 0.197902317 | 652 | 752 | 7331.9 | 763 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 17 | 1119 | 0.151210086 | 651 | 759 | 7400.3 | 761 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 18 | 966 | 0.130183416 | 638 | 761 | 7420.3 | 757 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 19 | 1077 | 0.145442269 | 644 | 759 | 7405 | 758 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 20 | 1144 | 0.159493636 | 602 | 735 | 7172.7 | 736 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 21 | 763 | 0.129024621 | 449 | 606 | 5913.6 | 578 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 22 | 396 | 0.088537125 | 317 | 458 | 4472.7 | 412 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 23 | 167 | 0.055002964 | 206 | 311 | 3036.2 | 251 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 0 | 175 | 0.061569855 | 193 | 291 | 2842.3 | 226 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 1 | 140 | 0.057442967 | 160 | 250 | 2437.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 2 | 121 | 0.050324405 | 168 | 246 | 2404.4 | 226 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 3 | 111 | 0.046476573 | 152 | 245 | 2388.3 | 226 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 4 | 112 | 0.046421022 | 156 | 247 | 2412.7 | 225 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 5 | 129 | 0.051121503 | 166 | 258 | 2523.4 | 243 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 6 | 171 | 0.061178491 | 190 | 286 | 2795.1 | 253 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 7 | 213 | 0.06926604 | 215 | 315 | 3075.1 | 263 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 8 | 165 | 0.053311793 | 207 | 317 | 3095 | 283 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 9 | 316 | 0.081962961 | 258 | 395 | 3855.4 | 340 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 10 | 462 | 0.096656764 | 325 | 490 | 4779.8 | 447 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 11 | 629 | 0.111191642 | 373 | 580 | 5656.9 | 538 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 12 | 850 | 0.128433713 | 476 | 679 | 6618.2 | 645 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 13 | 850 | 0.120709488 | 556 | 722 | 7041.7 | 699 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 14 | 847 | 0.112995104 | 637 | 769 | 7495.9 | 762 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 15 | 821 | 0.109403942 | 652 | 769 | 7504.3 | 761 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 16 | 846 | 0.112694818 | 660 | 770 | 7507 | 763 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 17 | 800 | 0.110287022 | 616 | 744 | 7253.8 | 730 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 18 | 665 | 0.102547496 | 499 | 665 | 6484.8 | 638 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 19 | 616 | 0.101519496 | 442 | 622 | 6067.8 | 593 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 20 | 456 | 0.086895211 | 372 | 538 | 5247.7 | 503 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 21 | 430 | 0.088163533 | 351 | 500 | 4877.3 | 457 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 22 | 301 | 0.072018184 | 305 | 428 | 4179.5 | 379 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 23 | 154 | 0.049246906 | 222 | 320 | 3127.1 | 264 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 0 | 125 | 0.044748335 | 190 | 286 | 2793.4 | 227 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 1 | 141 | 0.05070848 | 189 | 285 | 2780.6 | 225 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 2 | 145 | 0.051405679 | 194 | 289 | 2820.7 | 226 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 3 | 118 | 0.041960031 | 191 | 288 | 2812.2 | 227 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 4 | 118 | 0.042391148 | 194 | 285 | 2783.6 | 226 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 5 | 114 | 0.041853293 | 187 | 279 | 2723.8 | 227 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 6 | 151 | 0.055315408 | 182 | 280 | 2729.8 | 226 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 7 | 167 | 0.056635127 | 203 | 302 | 2948.7 | 254 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 8 | 300 | 0.075774797 | 269 | 406 | 3959.1 | 357 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 9 | 548 | 0.103972982 | 379 | 540 | 5270.6 | 489 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 10 | 783 | 0.127939086 | 452 | 627 | 6120.1 | 609 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 11 | 971 | 0.131529042 | 583 | 757 | 7382.4 | 710 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 12 | 912 | 0.122402963 | 640 | 764 | 7450.8 | 762 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 13 | 942 | 0.124688939 | 672 | 775 | 7554.8 | 762 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 14 | 946 | 0.125016519 | 681 | 776 | 7567 | 762 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 15 | 980 | 0.12977726 | 679 | 774 | 7551.4 | 762 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 16 | 1116 | 0.147648343 | 672 | 775 | 7558.5 | 764 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 17 | 854 | 0.127825176 | 534 | 685 | 6681 | 669 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 18 | 773 | 0.12554204 | 468 | 631 | 6157.3 | 610 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 19 | 919 | 0.150313221 | 440 | 627 | 6113.9 | 601 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 20 | 666 | 0.12419812 | 375 | 550 | 5362.4 | 515 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 21 | 581 | 0.119020793 | 312 | 500 | 4881.5 | 462 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 22 | 665 | 0.13915045 | 320 | 490 | 4779 | 447 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 23 | 271 | 0.075198402 | 237 | 369 | 3603.8 | 315 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 0 | 156 | 0.055393793 | 197 | 288 | 2816.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 1 | 177 | 0.062969156 | 188 | 288 | 2810.9 | 226 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 2 | 158 | 0.056744721 | 189 | 285 | 2784.4 | 226 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 3 | 149 | 0.053096714 | 196 | 287 | 2806.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 4 | 152 | 0.053973439 | 194 | 288 | 2816.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 5 | 150 | 0.053456878 | 204 | 287 | 2806 | 226 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 6 | 183 | 0.065343141 | 193 | 287 | 2800.6 | 226 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 7 | 259 | 0.079004362 | 219 | 336 | 3278.3 | 283 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 8 | 474 | 0.099659392 | 304 | 488 | 4756.2 | 451 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 9 | 714 | 0.120604034 | 414 | 607 | 5920.2 | 583 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 10 | 832 | 0.123100596 | 540 | 693 | 6758.7 | 671 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 11 | 1110 | 0.145305075 | 657 | 783 | 7639.1 | 765 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 12 | 1112 | 0.14586476 | 670 | 782 | 7623.5 | 767 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 13 | 1130 | 0.147915439 | 687 | 783 | 7639.5 | 765 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 14 | 1149 | 0.149962803 | 704 | 786 | 7661.9 | 768 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 15 | 1171 | 0.153475144 | 679 | 782 | 7629.9 | 767 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 16 | 1193 | 0.155849924 | 696 | 785 | 7654.8 | 766 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 17 | 1191 | 0.155845175 | 657 | 784 | 7642.2 | 762 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 18 | 1160 | 0.151667691 | 634 | 784 | 7648.3 | 761 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 19 | 1153 | 0.150752455 | 634 | 784 | 7648.3 | 763 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 20 | 764 | 0.11848819 | 483 | 661 | 6447.9 | 625 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 21 | 476 | 0.089215429 | 346 | 547 | 5335.4 | 499 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 22 | 499 | 0.100546052 | 302 | 509 | 4962.9 | 455 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 23 | 251 | 0.074203276 | 209 | 347 | 3382.6 | 283 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 0 | 178 | 0.062561507 | 184 | 291 | 2845.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 1 | 168 | 0.059303188 | 187 | 290 | 2832.9 | 226 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 2 | 158 | 0.05624377 | 199 | 288 | 2809.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 3 | 131 | 0.046534759 | 185 | 288 | 2815.1 | 226 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 4 | 151 | 0.052928599 | 188 | 292 | 2852.9 | 226 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 5 | 250 | 0.074742884 | 217 | 343 | 3344.8 | 283 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 6 | 378 | 0.095997562 | 259 | 404 | 3937.6 | 350 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 7 | 382 | 0.089131551 | 278 | 439 | 4285.8 | 390 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 8 | 563 | 0.118776371 | 293 | 486 | 4740 | 441 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 9 | 1402 | 0.227188022 | 432 | 633 | 6171.1 | 584 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 10 | 1383 | 0.192315715 | 560 | 737 | 7191.3 | 704 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 11 | 1366 | 0.179524248 | 639 | 780 | 7609 | 765 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 12 | 1237 | 0.162348741 | 662 | 781 | 7619.4 | 762 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 13 | 1148 | 0.150169398 | 665 | 784 | 7644.7 | 760 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 14 | 969 | 0.12599961 | 661 | 789 | 7690.5 | 763 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 15 | 468 | 0.061119745 | 673 | 785 | 7657.1 | 764 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 16 | 423 | 0.054957191 | 677 | 789 | 7696.9 | 763 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 17 | 670 | 0.087484494 | 673 | 785 | 7658.5 | 763 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 18 | 1492 | 0.195160235 | 665 | 784 | 7645 | 761 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 19 | 1334 | 0.175380934 | 654 | 780 | 7606.3 | 760 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 20 | 828 | 0.128467697 | 489 | 661 | 6445.2 | 627 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 21 | 778 | 0.130246263 | 412 | 612 | 5973.3 | 571 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 22 | 484 | 0.10418909 | 297 | 476 | 4645.4 | 423 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 23 | 172 | 0.05738498 | 203 | 307 | 2997.3 | 238 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 0 | 208 | 0.072990139 | 196 | 292 | 2849.7 | 226 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 1 | 199 | 0.069731586 | 185 | 292 | 2853.8 | 226 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 2 | 192 | 0.06806821 | 183 | 289 | 2820.7 | 226 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 3 | 189 | 0.066701959 | 189 | 290 | 2833.5 | 225 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 4 | 202 | 0.070405354 | 192 | 294 | 2869.1 | 226 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 5 | 198 | 0.069779736 | 190 | 291 | 2837.5 | 226 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 6 | 230 | 0.081967213 | 190 | 287 | 2806 | 226 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 7 | 392 | 0.112121732 | 237 | 358 | 3496.2 | 303 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 8 | 1074 | 0.198837338 | 367 | 554 | 5401.4 | 508 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 9 | 1410 | 0.201563907 | 524 | 717 | 6995.3 | 694 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 10 | 1123 | 0.150268288 | 605 | 766 | 7473.3 | 761 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 11 | 1016 | 0.134109479 | 621 | 777 | 7575.9 | 765 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 12 | 1135 | 0.149985464 | 650 | 776 | 7567.4 | 765 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 13 | 1305 | 0.172427462 | 666 | 776 | 7568.4 | 764 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 14 | 1290 | 0.169260241 | 670 | 782 | 7621.4 | 765 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 15 | 1197 | 0.155826911 | 676 | 788 | 7681.6 | 764 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 16 | 1200 | 0.154567469 | 659 | 796 | 7763.6 | 762 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 17 | 1120 | 0.144389439 | 667 | 795 | 7756.8 | 766 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 18 | 1131 | 0.14646275 | 664 | 792 | 7722.1 | 766 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 19 | 1180 | 0.15315327 | 654 | 790 | 7704.7 | 765 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 20 | 976 | 0.141271151 | 538 | 708 | 6908.7 | 677 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 21 | 705 | 0.119372153 | 419 | 605 | 5905.9 | 559 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 22 | 583 | 0.108872248 | 369 | 549 | 5354.9 | 495 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 23 | 493 | 0.108444601 | 313 | 466 | 4546.1 | 405 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 0 | 389 | 0.098115873 | 265 | 406 | 3964.7 | 345 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 1 | 221 | 0.069947777 | 221 | 324 | 3159.5 | 256 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 2 | 192 | 0.066789578 | 207 | 294 | 2874.7 | 228 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 3 | 216 | 0.07531906 | 206 | 294 | 2867.8 | 226 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 4 | 202 | 0.070134018 | 210 | 295 | 2880.2 | 225 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 5 | 206 | 0.070144375 | 217 | 301 | 2936.8 | 235 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 6 | 276 | 0.089459354 | 225 | 316 | 3085.2 | 253 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 7 | 298 | 0.091593668 | 253 | 333 | 3253.5 | 276 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 8 | 734 | 0.159717991 | 321 | 471 | 4595.6 | 421 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 9 | 1223 | 0.198037438 | 426 | 633 | 6175.6 | 597 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 10 | 1306 | 0.17956086 | 531 | 746 | 7273.3 | 716 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 11 | 1533 | 0.199425011 | 591 | 788 | 7687.1 | 764 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 12 | 1651 | 0.214719538 | 622 | 788 | 7689.1 | 761 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 13 | 1744 | 0.227881512 | 673 | 785 | 7653.1 | 764 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 14 | 1607 | 0.208201075 | 748 | 791 | 7718.5 | 764 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 15 | 1099 | 0.142379645 | 679 | 792 | 7718.8 | 763 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 16 | 973 | 0.127354354 | 649 | 783 | 7640.1 | 762 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 17 | 1127 | 0.147227883 | 650 | 785 | 7654.8 | 763 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 18 | 1303 | 0.170402532 | 650 | 784 | 7646.6 | 762 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 19 | 1156 | 0.150554159 | 645 | 787 | 7678.3 | 765 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 20 | 914 | 0.129086929 | 559 | 726 | 7080.5 | 698 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 21 | 933 | 0.140357739 | 498 | 682 | 6647.3 | 646 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 22 | 725 | 0.1298027 | 391 | 573 | 5585.4 | 523 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 23 | 336 | 0.08142691 | 276 | 423 | 4126.4 | 364 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 0 | 167 | 0.056434171 | 213 | 303 | 2959.2 | 236 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 1 | 183 | 0.064208273 | 202 | 292 | 2850.1 | 226 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 2 | 145 | 0.051153602 | 204 | 290 | 2834.6 | 226 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 3 | 131 | 0.04659103 | 210 | 288 | 2811.7 | 226 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 4 | 123 | 0.043265679 | 221 | 291 | 2842.9 | 226 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 5 | 126 | 0.044795222 | 216 | 288 | 2812.8 | 226 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 6 | 150 | 0.053842564 | 217 | 285 | 2785.9 | 226 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 7 | 148 | 0.048633018 | 240 | 312 | 3043.2 | 252 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 8 | 249 | 0.068346509 | 284 | 373 | 3643.2 | 322 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 9 | 982 | 0.158025168 | 428 | 637 | 6214.2 | 588 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 10 | 1197 | 0.160228094 | 605 | 766 | 7470.6 | 725 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 11 | 1010 | 0.131716223 | 621 | 786 | 7668 | 760 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 12 | 899 | 0.117151867 | 644 | 787 | 7673.8 | 765 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 13 | 1136 | 0.150751101 | 640 | 773 | 7535.6 | 764 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 14 | 1223 | 0.1622963 | 663 | 773 | 7535.6 | 765 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 15 | 1188 | 0.154057629 | 670 | 791 | 7711.4 | 762 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 16 | 1113 | 0.144603672 | 669 | 789 | 7696.9 | 762 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 17 | 1102 | 0.142794205 | 663 | 791 | 7717.4 | 764 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 18 | 1210 | 0.155795329 | 675 | 796 | 7766.6 | 766 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 19 | 1211 | 0.160337888 | 611 | 774 | 7552.8 | 741 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 20 | 928 | 0.137626244 | 512 | 691 | 6742.9 | 654 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 21 | 731 | 0.123519373 | 426 | 607 | 5918.1 | 555 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 22 | 431 | 0.0952402 | 334 | 464 | 4525.4 | 399 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 23 | 263 | 0.07805544 | 239 | 345 | 3369.4 | 274 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 0 | 265 | 0.08419648 | 236 | 322 | 3147.4 | 251 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 1 | 242 | 0.075957313 | 245 | 326 | 3186 | 251 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 2 | 245 | 0.077990705 | 248 | 322 | 3141.4 | 251 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 3 | 236 | 0.075109004 | 263 | 322 | 3142.1 | 251 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 4 | 203 | 0.064629099 | 235 | 322 | 3141 | 251 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 5 | 226 | 0.069022386 | 245 | 335 | 3274.3 | 264 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 6 | 404 | 0.10036519 | 305 | 413 | 4025.3 | 344 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 7 | 453 | 0.097973484 | 332 | 474 | 4623.7 | 410 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 8 | 772 | 0.136318689 | 385 | 581 | 5663.2 | 527 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 9 | 1213 | 0.175662173 | 517 | 708 | 6905.3 | 661 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 10 | 1391 | 0.179513983 | 627 | 795 | 7748.7 | 760 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 11 | 1120 | 0.144294567 | 644 | 796 | 7761.9 | 765 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 12 | 1115 | 0.143694826 | 682 | 796 | 7759.5 | 764 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 13 | 1245 | 0.160525026 | 682 | 795 | 7755.8 | 763 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 14 | 1342 | 0.172695569 | 683 | 797 | 7770.9 | 763 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 15 | 1303 | 0.167371004 | 677 | 798 | 7785.1 | 764 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 16 | 1231 | 0.158824364 | 658 | 795 | 7750.7 | 760 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 17 | 1164 | 0.150558775 | 649 | 793 | 7731.2 | 761 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 18 | 1111 | 0.143079756 | 660 | 796 | 7764.9 | 762 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 19 | 1081 | 0.13959735 | 650 | 794 | 7743.7 | 762 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 20 | 995 | 0.13455947 | 599 | 758 | 7394.5 | 720 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 21 | 709 | 0.11510114 | 449 | 632 | 6159.8 | 580 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 22 | 534 | 0.100093721 | 373 | 547 | 5335 | 479 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 23 | 160 | 0.047788298 | 227 | 343 | 3348.1 | 274 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 0 | 150 | 0.050585101 | 207 | 304 | 2965.3 | 227 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 1 | 164 | 0.055381083 | 210 | 303 | 2961.3 | 226 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 2 | 147 | 0.049932065 | 214 | 302 | 2944 | 226 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 3 | 135 | 0.045923053 | 238 | 301 | 2939.7 | 226 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 4 | 177 | 0.060010171 | 221 | 302 | 2949.5 | 225 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 5 | 209 | 0.071853405 | 221 | 298 | 2908.7 | 226 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 6 | 211 | 0.071634697 | 223 | 302 | 2945.5 | 226 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 7 | 223 | 0.070386971 | 237 | 325 | 3168.2 | 252 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 8 | 613 | 0.134074058 | 324 | 469 | 4572.1 | 407 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 9 | 953 | 0.155158659 | 423 | 630 | 6142.1 | 579 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 10 | 797 | 0.111676265 | 521 | 732 | 7136.7 | 683 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 11 | 852 | 0.110024923 | 627 | 794 | 7743.7 | 761 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 12 | 1018 | 0.130309004 | 656 | 801 | 7812.2 | 762 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 13 | 1283 | 0.163980522 | 665 | 802 | 7824.1 | 762 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 14 | 1368 | 0.174875682 | 664 | 802 | 7822.7 | 762 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 15 | 1256 | 0.161344192 | 653 | 798 | 7784.6 | 762 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 16 | 1241 | 0.159304759 | 662 | 799 | 7790.1 | 763 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 17 | 1433 | 0.184161826 | 661 | 798 | 7781.2 | 763 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 18 | 1611 | 0.207354588 | 660 | 797 | 7769.3 | 764 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 19 | 1020 | 0.130621863 | 655 | 801 | 7808.8 | 763 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 20 | 618 | 0.094414569 | 484 | 671 | 6545.6 | 628 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 21 | 647 | 0.109860255 | 412 | 604 | 5889.3 | 554 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 22 | 602 | 0.130645196 | 331 | 472 | 4607.9 | 408 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 23 | 192 | 0.057817393 | 219 | 340 | 3320.8 | 269 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 0 | 134 | 0.045668325 | 208 | 301 | 2934.2 | 226 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 1 | 142 | 0.048725251 | 212 | 299 | 2914.3 | 226 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 2 | 139 | 0.047792601 | 218 | 298 | 2908.4 | 226 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 3 | 134 | 0.046468079 | 236 | 295 | 2883.7 | 226 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 4 | 126 | 0.042854228 | 217 | 301 | 2940.2 | 226 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 5 | 161 | 0.051280418 | 222 | 322 | 3139.6 | 250 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 6 | 199 | 0.062407878 | 236 | 327 | 3188.7 | 253 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 7 | 187 | 0.057160324 | 245 | 335 | 3271.5 | 268 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 8 | 454 | 0.100420261 | 334 | 463 | 4521 | 404 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 9 | 878 | 0.124857793 | 534 | 721 | 7032 | 684 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 10 | 855 | 0.110585131 | 641 | 793 | 7731.6 | 761 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 11 | 874 | 0.113581723 | 654 | 789 | 7694.9 | 763 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 12 | 1035 | 0.135143958 | 658 | 785 | 7658.5 | 761 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 13 | 1217 | 0.157591454 | 679 | 792 | 7722.5 | 760 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 14 | 1125 | 0.14526063 | 658 | 794 | 7744.7 | 763 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 15 | 1071 | 0.138402492 | 657 | 793 | 7738.3 | 764 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 16 | 1057 | 0.136575659 | 657 | 794 | 7739.3 | 763 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 17 | 1117 | 0.144291011 | 650 | 794 | 7741.3 | 765 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 18 | 1182 | 0.151375442 | 655 | 801 | 7808.4 | 763 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 19 | 1161 | 0.15229625 | 625 | 782 | 7623.3 | 748 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 20 | 707 | 0.115372063 | 441 | 628 | 6128 | 577 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 21 | 379 | 0.082545629 | 312 | 471 | 4591.4 | 408 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 22 | 476 | 0.116852829 | 285 | 417 | 4073.5 | 353 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 23 | 243 | 0.077408257 | 222 | 322 | 3139.2 | 246 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 0 | 132 | 0.045085047 | 228 | 300 | 2927.8 | 226 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 1 | 126 | 0.043099025 | 228 | 300 | 2923.5 | 226 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 2 | 134 | 0.045855862 | 230 | 299 | 2922.2 | 225 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 3 | 134 | 0.045954937 | 207 | 299 | 2915.9 | 225 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 4 | 144 | 0.049321825 | 219 | 299 | 2919.6 | 225 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 5 | 234 | 0.071502781 | 248 | 335 | 3272.6 | 272 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 6 | 569 | 0.115448606 | 330 | 505 | 4928.6 | 447 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 7 | 500 | 0.094802905 | 363 | 541 | 5274.1 | 492 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 8 | 603 | 0.100917124 | 406 | 613 | 5975.2 | 570 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 9 | 1005 | 0.152679874 | 506 | 675 | 6582.4 | 643 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 10 | 1107 | 0.171168803 | 472 | 663 | 6467.3 | 638 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 11 | 1101 | 0.156525448 | 541 | 721 | 7034 | 701 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 12 | 946 | 0.13391846 | 558 | 724 | 7064 | 713 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 13 | 962 | 0.135186408 | 569 | 730 | 7116.1 | 718 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 14 | 1190 | 0.160111944 | 616 | 762 | 7432.3 | 757 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 15 | 1188 | 0.158936145 | 635 | 766 | 7474.7 | 760 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 16 | 1078 | 0.14337585 | 646 | 771 | 7518.7 | 761 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 17 | 984 | 0.134558582 | 599 | 750 | 7312.8 | 738 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 18 | 920 | 0.133596654 | 523 | 706 | 6886.4 | 681 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 19 | 978 | 0.145347541 | 497 | 690 | 6728.7 | 669 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 20 | 805 | 0.139285405 | 404 | 593 | 5779.5 | 553 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 21 | 567 | 0.120705071 | 305 | 482 | 4697.4 | 438 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 22 | 366 | 0.107637561 | 238 | 348 | 3400.3 | 289 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 23 | 279 | 0.099288256 | 213 | 288 | 2810 | 233 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 0 | 209 | 0.073742149 | 226 | 290 | 2834.2 | 225 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 1 | 228 | 0.078909116 | 225 | 296 | 2889.4 | 226 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 2 | 220 | 0.077722038 | 212 | 290 | 2830.6 | 226 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 3 | 227 | 0.080788668 | 224 | 288 | 2809.8 | 226 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 4 | 224 | 0.080506038 | 230 | 285 | 2782.4 | 225 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 5 | 313 | 0.095560848 | 248 | 336 | 3275.4 | 282 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 6 | 484 | 0.114909782 | 299 | 432 | 4212 | 380 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 7 | 756 | 0.133396856 | 379 | 581 | 5667.3 | 553 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 8 | 1045 | 0.146631681 | 555 | 731 | 7126.7 | 721 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 9 | 830 | 0.115610157 | 581 | 736 | 7179.3 | 726 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 10 | 706 | 0.099174018 | 598 | 730 | 7118.8 | 726 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 11 | 658 | 0.092324961 | 591 | 731 | 7127 | 726 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 12 | 670 | 0.092909739 | 613 | 739 | 7211.3 | 726 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 13 | 715 | 0.09853914 | 587 | 744 | 7256 | 726 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 14 | 753 | 0.104699666 | 596 | 737 | 7192 | 726 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 15 | 725 | 0.100080064 | 615 | 743 | 7244.2 | 725 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 16 | 717 | 0.097877278 | 652 | 751 | 7325.5 | 723 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 17 | 741 | 0.102498133 | 650 | 741 | 7229.4 | 736 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 18 | 838 | 0.11338881 | 657 | 758 | 7390.5 | 757 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 19 | 729 | 0.105920814 | 591 | 706 | 6882.5 | 706 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 20 | 504 | 0.087381671 | 490 | 591 | 5767.8 | 567 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 21 | 319 | 0.066524858 | 402 | 492 | 4795.2 | 448 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 22 | 183 | 0.051352565 | 352 | 365 | 3563.6 | 309 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 23 | 115 | 0.040700761 | 333 | 289 | 2825.5 | 227 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 0 | 136 | 0.048479663 | 196 | 287 | 2805.3 | 226 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 1 | 167 | 0.060002874 | 211 | 285 | 2783.2 | 225 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 2 | 172 | 0.061365015 | 215 | 287 | 2802.9 | 225 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 3 | 204 | 0.072156197 | 240 | 290 | 2827.2 | 225 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 4 | 203 | 0.072619303 | 209 | 286 | 2795.4 | 226 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 5 | 296 | 0.093977204 | 226 | 323 | 3149.7 | 263 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 6 | 884 | 0.172259246 | 379 | 526 | 5131.8 | 495 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 7 | 1242 | 0.182293196 | 647 | 699 | 6813.2 | 686 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 8 | 1220 | 0.171516941 | 569 | 729 | 7113 | 722 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 9 | 1132 | 0.159268378 | 561 | 729 | 7107.5 | 726 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 10 | 1263 | 0.177410066 | 590 | 730 | 7119.1 | 726 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 11 | 860 | 0.121302735 | 553 | 727 | 7089.7 | 726 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 12 | 892 | 0.124914226 | 607 | 732 | 7140.9 | 726 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 13 | 999 | 0.139088061 | 581 | 736 | 7182.5 | 726 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 14 | 1045 | 0.145132842 | 568 | 738 | 7200.3 | 726 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 15 | 1022 | 0.141828224 | 583 | 739 | 7205.9 | 726 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 16 | 992 | 0.136329279 | 589 | 746 | 7276.5 | 726 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 17 | 739 | 0.115740016 | 491 | 655 | 6385 | 633 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 18 | 562 | 0.09821569 | 417 | 587 | 5722.1 | 551 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 19 | 647 | 0.122980422 | 363 | 539 | 5261 | 502 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 20 | 324 | 0.086007804 | 248 | 386 | 3767.1 | 337 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 21 | 200 | 0.065140214 | 218 | 315 | 3070.3 | 255 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 22 | 198 | 0.067989836 | 206 | 298 | 2912.2 | 235 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 23 | 196 | 0.070060051 | 201 | 287 | 2797.6 | 226 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 0 | 210 | 0.075583069 | 202 | 285 | 2778.4 | 226 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 1 | 204 | 0.073139251 | 206 | 286 | 2789.2 | 225 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 2 | 198 | 0.071305099 | 227 | 284 | 2776.8 | 226 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 3 | 213 | 0.075108431 | 204 | 291 | 2835.9 | 225 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 4 | 218 | 0.077034524 | 209 | 290 | 2829.9 | 226 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 5 | 205 | 0.072875933 | 202 | 288 | 2813 | 226 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 6 | 288 | 0.096404901 | 239 | 306 | 2987.4 | 241 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 7 | 830 | 0.167399459 | 357 | 508 | 4958.2 | 472 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 8 | 1524 | 0.218798903 | 543 | 714 | 6965.3 | 703 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 9 | 1100 | 0.154435818 | 576 | 730 | 7122.7 | 726 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 10 | 925 | 0.130160696 | 582 | 729 | 7106.6 | 726 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 11 | 1098 | 0.153287729 | 580 | 734 | 7163 | 726 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 12 | 1186 | 0.164400272 | 598 | 740 | 7214.1 | 726 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 13 | 1106 | 0.152758211 | 615 | 742 | 7240.2 | 726 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 14 | 1149 | 0.158467458 | 623 | 743 | 7250.7 | 726 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 15 | 1210 | 0.166730971 | 616 | 744 | 7257.2 | 726 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 16 | 1188 | 0.162477092 | 606 | 750 | 7311.8 | 726 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 17 | 1122 | 0.154152641 | 604 | 746 | 7278.5 | 726 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 18 | 1077 | 0.146936437 | 608 | 752 | 7329.7 | 726 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 19 | 1218 | 0.160189386 | 623 | 780 | 7603.5 | 745 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 20 | 1034 | 0.148382005 | 536 | 715 | 6968.5 | 686 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 21 | 595 | 0.109401144 | 364 | 558 | 5438.7 | 511 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 22 | 558 | 0.112615794 | 317 | 508 | 4954.9 | 452 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 23 | 626 | 0.133041464 | 296 | 482 | 4705.3 | 430 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 0 | 369 | 0.094082252 | 270 | 402 | 3922.1 | 356 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 1 | 239 | 0.07361094 | 217 | 333 | 3246.8 | 277 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 2 | 227 | 0.075563397 | 204 | 308 | 3004.1 | 255 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 3 | 210 | 0.071469898 | 193 | 301 | 2938.3 | 248 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 4 | 202 | 0.067459257 | 203 | 307 | 2994.4 | 253 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 5 | 384 | 0.099250452 | 251 | 397 | 3869 | 351 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 6 | 527 | 0.120234537 | 284 | 449 | 4383.1 | 410 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 7 | 454 | 0.105365763 | 336 | 442 | 4308.8 | 405 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 8 | 1026 | 0.190299546 | 404 | 553 | 5391.5 | 527 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 9 | 1262 | 0.179470406 | 562 | 721 | 7031.8 | 715 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 10 | 1043 | 0.137399552 | 607 | 778 | 7591 | 765 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 11 | 1115 | 0.146633351 | 615 | 780 | 7604 | 765 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 12 | 1095 | 0.143723421 | 640 | 781 | 7618.8 | 763 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 13 | 987 | 0.130145837 | 659 | 778 | 7583.8 | 765 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 14 | 1341 | 0.176589104 | 668 | 779 | 7593.9 | 765 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 15 | 1315 | 0.172753547 | 685 | 781 | 7612 | 763 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 16 | 1161 | 0.151382786 | 705 | 786 | 7669.3 | 763 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 17 | 1147 | 0.149106272 | 700 | 789 | 7692.5 | 764 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 18 | 1233 | 0.160926141 | 697 | 786 | 7661.9 | 765 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 19 | 1294 | 0.166961279 | 720 | 795 | 7750.3 | 765 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 20 | 1090 | 0.150160493 | 631 | 744 | 7258.9 | 714 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 21 | 912 | 0.137562786 | 576 | 680 | 6629.7 | 640 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 22 | 805 | 0.13869984 | 516 | 595 | 5803.9 | 544 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 23 | 734 | 0.140529571 | 485 | 535 | 5223.1 | 481 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 0 | 522 | 0.111080374 | 437 | 482 | 4699.3 | 418 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 1 | 180 | 0.055262188 | 312 | 334 | 3257.2 | 266 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 2 | 178 | 0.06012701 | 180 | 303 | 2960.4 | 226 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 3 | 163 | 0.055282347 | 200 | 302 | 2948.5 | 226 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 4 | 151 | 0.051061815 | 198 | 303 | 2957.2 | 226 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 5 | 147 | 0.050698396 | 156 | 297 | 2899.5 | 226 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 6 | 256 | 0.076587088 | 217 | 342 | 3342.6 | 266 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 7 | 520 | 0.114780152 | 444 | 464 | 4530.4 | 400 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 8 | 1154 | 0.181927103 | 773 | 650 | 6343.2 | 603 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 9 | 1311 | 0.169809854 | 1219 | 792 | 7720.4 | 756 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 10 | 1081 | 0.139259259 | 1288 | 796 | 7762.5 | 764 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 11 | 1188 | 0.15295087 | 1312 | 796 | 7767.2 | 766 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 12 | 1313 | 0.168605696 | 1331 | 799 | 7787.4 | 767 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 13 | 1234 | 0.157259555 | 1341 | 805 | 7846.9 | 767 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 14 | 1078 | 0.137612337 | 1339 | 803 | 7833.6 | 765 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 15 | 1154 | 0.146159205 | 876 | 810 | 7895.5 | 766 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 16 | 1247 | 0.15841559 | 645 | 807 | 7871.7 | 766 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 17 | 1174 | 0.149626571 | 651 | 805 | 7846.2 | 767 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 18 | 1100 | 0.139922407 | 652 | 806 | 7861.5 | 767 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 19 | 1184 | 0.150756968 | 644 | 805 | 7853.7 | 767 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 20 | 979 | 0.135372447 | 549 | 742 | 7231.9 | 701 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 21 | 931 | 0.140234075 | 478 | 681 | 6638.9 | 633 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 22 | 838 | 0.138992553 | 434 | 618 | 6029.1 | 564 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 23 | 630 | 0.115484025 | 376 | 559 | 5455.3 | 492 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 0 | 341 | 0.07812858 | 270 | 447 | 4364.6 | 383 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 1 | 135 | 0.045024013 | 203 | 307 | 2998.4 | 233 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 2 | 146 | 0.049189717 | 195 | 304 | 2968.1 | 226 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 3 | 133 | 0.044764565 | 196 | 304 | 2971.1 | 226 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 4 | 134 | 0.045114807 | 204 | 304 | 2970.2 | 226 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 5 | 137 | 0.047199063 | 209 | 297 | 2902.6 | 226 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 6 | 173 | 0.059532003 | 212 | 298 | 2906 | 226 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 7 | 206 | 0.062816369 | 239 | 336 | 3279.4 | 264 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 8 | 474 | 0.101040246 | 319 | 481 | 4691.2 | 412 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 9 | 938 | 0.147816632 | 431 | 651 | 6345.7 | 595 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 10 | 1168 | 0.158659005 | 566 | 755 | 7361.7 | 710 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 11 | 1159 | 0.147908983 | 658 | 804 | 7835.9 | 765 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 12 | 1063 | 0.13443784 | 632 | 811 | 7907 | 767 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 13 | 1167 | 0.148452507 | 636 | 806 | 7861.1 | 763 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 14 | 1194 | 0.151415238 | 646 | 809 | 7885.6 | 764 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 15 | 1198 | 0.15168013 | 687 | 810 | 7898.2 | 763 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 16 | 1199 | 0.152022315 | 733 | 809 | 7887 | 765 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 17 | 1138 | 0.144375936 | 733 | 808 | 7882.2 | 765 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 18 | 1148 | 0.145801847 | 732 | 807 | 7873.7 | 766 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 19 | 1173 | 0.14905459 | 747 | 807 | 7869.6 | 764 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 20 | 1014 | 0.138051218 | 661 | 753 | 7345.1 | 710 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 21 | 789 | 0.126787723 | 553 | 638 | 6223 | 581 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 22 | 859 | 0.151205774 | 499 | 582 | 5681 | 522 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 23 | 400 | 0.091060168 | 417 | 450 | 4392.7 | 383 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 0 | 216 | 0.061719576 | 357 | 359 | 3499.7 | 287 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 1 | 154 | 0.050904043 | 217 | 310 | 3025.3 | 233 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 2 | 138 | 0.046962736 | 185 | 301 | 2938.5 | 226 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 3 | 139 | 0.04715381 | 194 | 302 | 2947.8 | 226 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 4 | 211 | 0.064114251 | 237 | 337 | 3291 | 260 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 5 | 616 | 0.127694859 | 318 | 494 | 4824 | 429 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 6 | 966 | 0.158008375 | 379 | 627 | 6113.6 | 579 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 7 | 831 | 0.128570102 | 446 | 663 | 6463.4 | 619 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 8 | 1125 | 0.159021839 | 523 | 725 | 7074.5 | 690 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 9 | 1304 | 0.168630139 | 696 | 793 | 7732.9 | 761 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 10 | 961 | 0.123648996 | 621 | 797 | 7772 | 764 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 11 | 938 | 0.121262265 | 603 | 793 | 7735.3 | 765 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 12 | 980 | 0.12645814 | 627 | 795 | 7749.6 | 763 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 13 | 1055 | 0.136759006 | 624 | 791 | 7714.3 | 762 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 14 | 1133 | 0.146361628 | 627 | 794 | 7741.1 | 764 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 15 | 1130 | 0.145883629 | 627 | 794 | 7745.9 | 761 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 16 | 1182 | 0.15171741 | 623 | 799 | 7790.8 | 764 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 17 | 1148 | 0.149898805 | 620 | 785 | 7658.5 | 763 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 18 | 1082 | 0.140501234 | 616 | 790 | 7701 | 763 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 19 | 1112 | 0.144370586 | 608 | 790 | 7702.4 | 763 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 20 | 1148 | 0.149296434 | 615 | 788 | 7689.4 | 765 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 21 | 960 | 0.137031275 | 532 | 718 | 7005.7 | 701 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 22 | 677 | 0.119421415 | 402 | 581 | 5669 | 542 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 23 | 799 | 0.156130923 | 363 | 525 | 5117.5 | 482 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 0 | 552 | 0.119457249 | 332 | 474 | 4620.9 | 422 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 1 | 270 | 0.074900133 | 252 | 369 | 3604.8 | 315 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 2 | 218 | 0.071363101 | 219 | 313 | 3054.8 | 255 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 3 | 217 | 0.068818978 | 220 | 323 | 3153.2 | 263 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 4 | 351 | 0.092159849 | 262 | 390 | 3808.6 | 332 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 5 | 548 | 0.119353574 | 293 | 471 | 4591.4 | 420 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 6 | 1305 | 0.210006276 | 403 | 637 | 6214.1 | 597 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 7 | 1341 | 0.178664215 | 585 | 770 | 7505.7 | 760 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 8 | 927 | 0.123656057 | 607 | 769 | 7496.6 | 764 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 9 | 1082 | 0.145469212 | 580 | 763 | 7438 | 763 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 10 | 1241 | 0.166191261 | 604 | 766 | 7467.3 | 764 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 11 | 1099 | 0.146989982 | 605 | 767 | 7476.7 | 765 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 12 | 1060 | 0.141665776 | 598 | 767 | 7482.4 | 763 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 13 | 1149 | 0.153511116 | 598 | 767 | 7484.8 | 763 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 14 | 1180 | 0.157320748 | 600 | 769 | 7500.6 | 764 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 15 | 1125 | 0.149934029 | 615 | 769 | 7503.3 | 762 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 16 | 1078 | 0.143471259 | 616 | 770 | 7513.7 | 763 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 17 | 1035 | 0.138455982 | 598 | 767 | 7475.3 | 764 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 18 | 1092 | 0.146086957 | 613 | 766 | 7475 | 765 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 19 | 1071 | 0.148716952 | 561 | 738 | 7201.6 | 739 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 20 | 867 | 0.13146921 | 488 | 676 | 6594.7 | 663 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 21 | 931 | 0.144280689 | 451 | 662 | 6452.7 | 640 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 22 | 801 | 0.138079641 | 417 | 595 | 5801 | 563 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 23 | 808 | 0.150213794 | 376 | 551 | 5379 | 519 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 0 | 591 | 0.120070702 | 339 | 505 | 4922.1 | 470 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 1 | 129 | 0.040817618 | 211 | 324 | 3160.4 | 284 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 2 | 127 | 0.045742688 | 194 | 284 | 2776.4 | 225 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 3 | 140 | 0.050743023 | 195 | 283 | 2759 | 226 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 4 | 166 | 0.054662803 | 221 | 311 | 3036.8 | 250 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 5 | 546 | 0.118669854 | 276 | 472 | 4601 | 430 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 6 | 914 | 0.155954067 | 351 | 601 | 5860.7 | 571 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 7 | 916 | 0.14727872 | 410 | 638 | 6219.5 | 617 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 8 | 942 | 0.143590994 | 459 | 673 | 6560.3 | 658 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 9 | 939 | 0.139125539 | 539 | 692 | 6749.3 | 680 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 10 | 1025 | 0.15050732 | 490 | 698 | 6810.3 | 686 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 11 | 1371 | 0.18242542 | 548 | 771 | 7515.4 | 763 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 12 | 1145 | 0.152811328 | 614 | 768 | 7492.9 | 765 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 13 | 950 | 0.127364625 | 604 | 765 | 7458.9 | 763 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 14 | 893 | 0.119711513 | 574 | 765 | 7459.6 | 762 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 15 | 957 | 0.12769705 | 577 | 768 | 7494.3 | 762 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 16 | 1029 | 0.136425105 | 595 | 773 | 7542.6 | 762 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 17 | 1090 | 0.143309799 | 593 | 780 | 7605.9 | 763 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 18 | 1113 | 0.147058824 | 590 | 776 | 7568.4 | 763 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 19 | 1059 | 0.1426205 | 564 | 761 | 7425.3 | 741 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 20 | 819 | 0.121284819 | 492 | 692 | 6752.7 | 661 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 21 | 707 | 0.113379412 | 399 | 639 | 6235.7 | 594 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 22 | 689 | 0.12031572 | 355 | 587 | 5726.6 | 567 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 23 | 557 | 0.107004265 | 296 | 534 | 5205.4 | 507 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 0 | 293 | 0.068734165 | 243 | 437 | 4262.8 | 398 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 1 | 121 | 0.041367521 | 190 | 300 | 2925 | 258 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 2 | 118 | 0.044049574 | 190 | 274 | 2678.8 | 227 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 3 | 137 | 0.051016608 | 212 | 275 | 2685.4 | 226 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 4 | 188 | 0.061512286 | 226 | 313 | 3056.3 | 261 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 5 | 459 | 0.110259675 | 253 | 427 | 4162.9 | 392 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 6 | 543 | 0.110990741 | 269 | 501 | 4892.3 | 470 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 7 | 623 | 0.125589646 | 287 | 509 | 4960.6 | 480 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 8 | 1180 | 0.189272424 | 423 | 639 | 6234.4 | 628 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 9 | 1657 | 0.222861831 | 557 | 762 | 7435.1 | 760 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 10 | 1209 | 0.161395827 | 614 | 768 | 7490.9 | 763 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 11 | 1170 | 0.154512559 | 605 | 776 | 7572.2 | 763 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 12 | 1215 | 0.160665406 | 597 | 775 | 7562.3 | 762 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 13 | 1198 | 0.158001635 | 606 | 777 | 7582.2 | 762 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 14 | 1140 | 0.150536782 | 598 | 777 | 7572.9 | 761 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 15 | 1123 | 0.14735019 | 602 | 781 | 7621.3 | 760 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 16 | 1185 | 0.154814941 | 604 | 785 | 7654.3 | 762 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 17 | 1241 | 0.162334689 | 596 | 784 | 7644.7 | 763 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 18 | 1282 | 0.167963735 | 595 | 783 | 7632.6 | 764 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 19 | 1296 | 0.16911995 | 597 | 786 | 7663.2 | 763 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 20 | 1174 | 0.160198679 | 557 | 751 | 7328.4 | 732 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 21 | 916 | 0.134545615 | 503 | 698 | 6808.1 | 667 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 22 | 828 | 0.127624156 | 467 | 665 | 6487.8 | 636 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 23 | 539 | 0.096648676 | 373 | 572 | 5576.9 | 525 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 0 | 417 | 0.086392641 | 328 | 495 | 4826.8 | 447 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 1 | 339 | 0.080645161 | 281 | 431 | 4203.6 | 383 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 2 | 284 | 0.07221869 | 255 | 403 | 3932.5 | 350 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 3 | 211 | 0.059542286 | 237 | 363 | 3543.7 | 309 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 4 | 333 | 0.083252081 | 268 | 410 | 3999.9 | 354 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 5 | 627 | 0.131300651 | 305 | 489 | 4775.3 | 447 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 6 | 1357 | 0.206588923 | 453 | 673 | 6568.6 | 641 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 7 | 1132 | 0.157592126 | 517 | 737 | 7183.1 | 719 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 8 | 1028 | 0.13639741 | 580 | 773 | 7536.8 | 762 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 9 | 1022 | 0.135314056 | 694 | 774 | 7552.8 | 760 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 10 | 1183 | 0.156027433 | 576 | 777 | 7582 | 760 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 11 | 1225 | 0.161082474 | 570 | 780 | 7604.8 | 762 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 12 | 1148 | 0.151405246 | 583 | 777 | 7582.3 | 760 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 13 | 1146 | 0.151147454 | 629 | 777 | 7582 | 761 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 14 | 1123 | 0.148186269 | 636 | 777 | 7578.3 | 759 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 15 | 1178 | 0.154633762 | 647 | 781 | 7618 | 759 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 16 | 1188 | 0.155466859 | 641 | 784 | 7641.5 | 759 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 17 | 1015 | 0.132361379 | 613 | 786 | 7668.4 | 760 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 18 | 927 | 0.120903056 | 605 | 786 | 7667.3 | 761 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 19 | 854 | 0.110713545 | 586 | 791 | 7713.6 | 761 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 20 | 856 | 0.110675821 | 587 | 793 | 7734.3 | 760 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 21 | 823 | 0.107442656 | 582 | 785 | 7659.9 | 755 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 22 | 678 | 0.09787363 | 478 | 710 | 6927.3 | 672 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 23 | 505 | 0.084918193 | 392 | 610 | 5946.9 | 558 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 0 | 501 | 0.087981174 | 370 | 584 | 5694.4 | 529 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 1 | 355 | 0.074561035 | 328 | 488 | 4761.2 | 425 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 2 | 182 | 0.049057926 | 237 | 380 | 3709.9 | 309 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 3 | 105 | 0.035908485 | 204 | 300 | 2924.1 | 226 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 4 | 186 | 0.055553896 | 221 | 343 | 3348.1 | 269 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 5 | 460 | 0.104180822 | 282 | 453 | 4415.4 | 387 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 6 | 738 | 0.140533953 | 304 | 538 | 5251.4 | 474 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 7 | 1246 | 0.191256831 | 416 | 668 | 6514.8 | 625 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 8 | 1211 | 0.157997051 | 582 | 786 | 7664.7 | 758 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 9 | 956 | 0.123273717 | 635 | 795 | 7755.1 | 765 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 10 | 1039 | 0.133988445 | 628 | 795 | 7754.4 | 765 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 11 | 1166 | 0.150831123 | 610 | 793 | 7730.5 | 765 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 12 | 1184 | 0.152918233 | 603 | 794 | 7742.7 | 763 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 13 | 1104 | 0.143172092 | 601 | 791 | 7711 | 764 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 14 | 1071 | 0.138389973 | 603 | 794 | 7739 | 760 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 15 | 1033 | 0.133347103 | 612 | 794 | 7746.7 | 763 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 16 | 1021 | 0.131358876 | 629 | 797 | 7772.6 | 763 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 17 | 1057 | 0.135031554 | 626 | 803 | 7827.8 | 766 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 18 | 1103 | 0.142532241 | 626 | 794 | 7738.6 | 764 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 19 | 1113 | 0.141982396 | 627 | 804 | 7839 | 767 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 20 | 1070 | 0.137852845 | 628 | 796 | 7761.9 | 764 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 21 | 1024 | 0.132450331 | 626 | 793 | 7731.2 | 764 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 22 | 826 | 0.116480758 | 531 | 727 | 7091.3 | 689 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 23 | 733 | 0.111968227 | 451 | 671 | 6546.5 | 626 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 0 | 745 | 0.124452908 | 389 | 614 | 5986.2 | 563 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 1 | 761 | 0.136602703 | 339 | 571 | 5570.9 | 518 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 2 | 448 | 0.094702575 | 288 | 485 | 4730.6 | 427 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 3 | 349 | 0.080279714 | 260 | 446 | 4347.3 | 378 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 4 | 414 | 0.092431346 | 264 | 459 | 4479 | 393 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 5 | 547 | 0.11165544 | 279 | 502 | 4899 | 446 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 6 | 563 | 0.113325282 | 283 | 509 | 4968 | 452 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 7 | 972 | 0.160319319 | 375 | 622 | 6062.9 | 577 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 8 | 1308 | 0.172044142 | 570 | 780 | 7602.7 | 751 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 9 | 1022 | 0.133241203 | 652 | 787 | 7670.3 | 768 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 10 | 988 | 0.128027368 | 640 | 791 | 7717.1 | 766 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 11 | 1068 | 0.13864908 | 616 | 790 | 7702.9 | 766 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 12 | 1185 | 0.152276436 | 599 | 798 | 7781.9 | 765 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 13 | 1386 | 0.177144975 | 602 | 802 | 7824.1 | 765 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 14 | 1280 | 0.164437764 | 599 | 798 | 7784.1 | 766 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 15 | 1161 | 0.148712694 | 601 | 801 | 7807 | 765 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 16 | 1212 | 0.154373273 | 612 | 805 | 7851.1 | 765 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 17 | 1266 | 0.161189697 | 604 | 805 | 7854.1 | 766 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 18 | 1298 | 0.166673087 | 591 | 799 | 7787.7 | 764 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 19 | 1272 | 0.163076923 | 592 | 800 | 7800 | 765 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 20 | 1215 | 0.155915151 | 600 | 799 | 7792.7 | 767 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 21 | 1006 | 0.128936339 | 600 | 800 | 7802.3 | 764 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 22 | 708 | 0.103791011 | 470 | 699 | 6821.4 | 656 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 23 | 630 | 0.100079428 | 409 | 645 | 6295 | 602 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 0 | 659 | 0.112154941 | 358 | 602 | 5875.8 | 558 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 1 | 560 | 0.106068642 | 316 | 541 | 5279.6 | 490 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 2 | 404 | 0.08474043 | 276 | 489 | 4767.5 | 435 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 3 | 424 | 0.086924433 | 278 | 500 | 4877.8 | 445 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 4 | 662 | 0.120418372 | 329 | 564 | 5497.5 | 510 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 5 | 997 | 0.153538154 | 435 | 666 | 6493.5 | 627 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 6 | 830 | 0.131410206 | 448 | 648 | 6316.1 | 608 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 7 | 903 | 0.138035403 | 471 | 671 | 6541.8 | 631 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 8 | 1300 | 0.175280111 | 585 | 761 | 7416.7 | 729 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 9 | 1117 | 0.14247449 | 768 | 804 | 7840 | 766 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 10 | 1015 | 0.130063174 | 647 | 800 | 7803.9 | 765 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 11 | 1077 | 0.138126507 | 592 | 800 | 7797.2 | 765 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 12 | 1170 | 0.150273575 | 599 | 798 | 7785.8 | 764 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 13 | 1167 | 0.149339681 | 593 | 801 | 7814.4 | 766 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 14 | 1314 | 0.169114146 | 582 | 797 | 7769.9 | 763 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 15 | 1245 | 0.158849648 | 603 | 804 | 7837.6 | 767 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 16 | 1110 | 0.14160692 | 611 | 804 | 7838.6 | 765 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 17 | 1188 | 0.151439826 | 604 | 804 | 7844.7 | 765 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 18 | 1106 | 0.141913133 | 607 | 799 | 7793.5 | 766 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 19 | 1094 | 0.140732736 | 614 | 797 | 7773.6 | 765 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 20 | 1183 | 0.15226597 | 613 | 797 | 7769.3 | 763 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 21 | 1190 | 0.152618889 | 623 | 800 | 7797.2 | 764 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 22 | 949 | 0.130860452 | 543 | 744 | 7252 | 704 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 23 | 901 | 0.13330966 | 466 | 693 | 6758.7 | 649 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 0 | 872 | 0.140362173 | 422 | 637 | 6212.5 | 595 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 1 | 853 | 0.144853703 | 376 | 604 | 5888.7 | 557 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 2 | 746 | 0.140207116 | 324 | 545 | 5320.7 | 492 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 3 | 942 | 0.177240912 | 318 | 545 | 5314.8 | 490 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 4 | 1045 | 0.171911757 | 383 | 623 | 6078.7 | 573 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 5 | 1250 | 0.169929309 | 559 | 754 | 7356 | 716 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 6 | 1306 | 0.167915965 | 653 | 798 | 7777.7 | 769 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 7 | 1102 | 0.141601563 | 677 | 798 | 7782.4 | 768 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 8 | 1093 | 0.139895047 | 664 | 801 | 7813 | 770 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 9 | 1173 | 0.150848765 | 1944 | 797 | 7776 | 767 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 10 | 1212 | 0.157576546 | 2976 | 789 | 7691.5 | 755 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 11 | 1195 | 0.154098107 | 3109 | 795 | 7754.8 | 767 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 12 | 1271 | 0.163799214 | 2808 | 796 | 7759.5 | 766 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 13 | 1310 | 0.168322048 | 2482 | 798 | 7782.7 | 765 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 14 | 1104 | 0.140590378 | 3125 | 805 | 7852.6 | 769 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 15 | 1045 | 0.133192281 | 3193 | 805 | 7845.8 | 769 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 16 | 1204 | 0.154135675 | 3163 | 801 | 7811.3 | 765 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 17 | 1125 | 0.145185644 | 3153 | 795 | 7748.7 | 765 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 18 | 1128 | 0.144628364 | 3135 | 800 | 7799.3 | 764 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 19 | 1204 | 0.154084388 | 3117 | 801 | 7813.9 | 766 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 20 | 1209 | 0.154664893 | 3173 | 802 | 7816.9 | 767 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 21 | 1236 | 0.159046749 | 3162 | 797 | 7771.3 | 765 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 22 | 1212 | 0.156155382 | 3135 | 796 | 7761.5 | 764 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 23 | 889 | 0.132285761 | 2412 | 689 | 6720.3 | 650 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 0 | 802 | 0.133333333 | 1997 | 617 | 6015 | 571 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 1 | 946 | 0.167602714 | 1710 | 579 | 5644.3 | 521 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 2 | 898 | 0.16746233 | 1651 | 550 | 5362.4 | 484 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 3 | 706 | 0.133755186 | 1604 | 541 | 5278.3 | 479 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 4 | 535 | 0.108761943 | 1520 | 504 | 4919 | 440 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 5 | 301 | 0.071956205 | 1284 | 429 | 4183.1 | 355 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 6 | 1039 | 0.158875789 | 2282 | 671 | 6539.7 | 612 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 7 | 1001 | 0.132192333 | 3051 | 776 | 7572.3 | 752 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 8 | 597 | 0.089233667 | 2488 | 686 | 6690.3 | 656 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 9 | 964 | 0.146408882 | 2396 | 675 | 6584.3 | 634 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 10 | 962 | 0.147148801 | 2412 | 670 | 6537.6 | 631 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 11 | 820 | 0.122785739 | 2497 | 685 | 6678.3 | 641 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 12 | 982 | 0.147507248 | 2456 | 683 | 6657.3 | 642 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 13 | 970 | 0.145761642 | 2429 | 682 | 6654.7 | 641 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 14 | 879 | 0.132047411 | 2443 | 683 | 6656.7 | 641 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 15 | 942 | 0.141201865 | 2448 | 684 | 6671.3 | 641 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 16 | 942 | 0.141250562 | 2440 | 684 | 6669 | 641 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 17 | 926 | 0.136210523 | 2440 | 697 | 6798.3 | 651 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 18 | 972 | 0.138099568 | 2590 | 722 | 7038.4 | 680 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 19 | 921 | 0.13124332 | 2568 | 720 | 7017.5 | 678 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 20 | 682 | 0.110833035 | 2129 | 631 | 6153.4 | 586 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 21 | 913 | 0.149610815 | 2068 | 626 | 6102.5 | 577 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 22 | 732 | 0.125321007 | 1985 | 599 | 5841 | 547 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 23 | 540 | 0.112607916 | 1582 | 492 | 4795.4 | 437 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 0 | 321 | 0.093254314 | 1118 | 353 | 3442.2 | 286 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 1 | 120 | 0.041055116 | 1028 | 299 | 2922.9 | 226 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 2 | 122 | 0.041984996 | 1022 | 298 | 2905.8 | 226 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 3 | 115 | 0.039555601 | 1029 | 298 | 2907.3 | 226 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 4 | 133 | 0.043349304 | 1089 | 314 | 3068.1 | 245 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 5 | 339 | 0.076284345 | 1475 | 455 | 4443.9 | 396 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 6 | 649 | 0.110571599 | 1989 | 602 | 5869.5 | 556 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 7 | 632 | 0.104566512 | 2055 | 620 | 6044 | 575 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 8 | 992 | 0.156870187 | 2156 | 648 | 6323.7 | 606 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 9 | 829 | 0.131114872 | 2156 | 648 | 6322.7 | 609 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 10 | 837 | 0.132025175 | 2161 | 650 | 6339.7 | 611 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 11 | 944 | 0.144785276 | 2275 | 669 | 6520 | 633 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 12 | 837 | 0.128138396 | 2220 | 670 | 6532 | 625 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 13 | 808 | 0.125948903 | 2110 | 658 | 6415.3 | 613 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 14 | 998 | 0.153815329 | 2212 | 665 | 6488.3 | 627 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 15 | 802 | 0.126158154 | 2155 | 652 | 6357.1 | 605 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 16 | 797 | 0.136204392 | 1948 | 600 | 5851.5 | 556 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 17 | 1104 | 0.170425601 | 2189 | 664 | 6477.9 | 620 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 18 | 948 | 0.134910131 | 2431 | 721 | 7026.9 | 680 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 19 | 765 | 0.115921386 | 2177 | 677 | 6599.3 | 639 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 20 | 720 | 0.123755994 | 1181 | 596 | 5817.9 | 545 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 21 | 844 | 0.156731662 | 193 | 552 | 5385 | 499 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 22 | 511 | 0.11142365 | 155 | 470 | 4586.1 | 406 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 23 | 265 | 0.075502878 | 115 | 360 | 3509.8 | 293 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 0 | 220 | 0.068308132 | 122 | 330 | 3220.7 | 254 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 1 | 251 | 0.073962753 | 118 | 348 | 3393.6 | 275 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 2 | 208 | 0.065484998 | 114 | 325 | 3176.3 | 252 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 3 | 246 | 0.073593203 | 120 | 343 | 3342.7 | 275 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 4 | 391 | 0.096976612 | 133 | 413 | 4031.9 | 349 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 5 | 623 | 0.123090905 | 156 | 519 | 5061.3 | 459 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 6 | 777 | 0.128330058 | 193 | 621 | 6054.7 | 576 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 7 | 685 | 0.104624878 | 229 | 671 | 6547.2 | 631 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 8 | 754 | 0.109259528 | 524 | 708 | 6901 | 677 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 9 | 753 | 0.109035621 | 324 | 708 | 6906 | 675 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 10 | 689 | 0.104992076 | 275 | 673 | 6562.4 | 636 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 11 | 842 | 0.123022077 | 287 | 702 | 6844.3 | 666 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 12 | 1097 | 0.147535472 | 342 | 762 | 7435.5 | 731 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 13 | 1046 | 0.135562468 | 416 | 791 | 7716 | 768 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 14 | 934 | 0.120052957 | 443 | 798 | 7779.9 | 763 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 15 | 1000 | 0.127660118 | 524 | 803 | 7833.3 | 769 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 16 | 821 | 0.113868046 | 454 | 739 | 7210.1 | 695 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 17 | 605 | 0.095122795 | 337 | 652 | 6360.2 | 603 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 18 | 690 | 0.105612784 | 287 | 670 | 6533.3 | 623 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 19 | 633 | 0.106763367 | 266 | 608 | 5929 | 559 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 20 | 530 | 0.100416825 | 179 | 541 | 5278 | 487 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 21 | 407 | 0.087840463 | 148 | 475 | 4633.4 | 416 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 22 | 346 | 0.081302723 | 136 | 436 | 4255.7 | 372 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 23 | 225 | 0.060357315 | 123 | 382 | 3727.8 | 313 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 0 | 182 | 0.055792281 | 110 | 334 | 3262.1 | 267 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 1 | 156 | 0.049754417 | 106 | 321 | 3135.4 | 251 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 2 | 154 | 0.049341578 | 109 | 320 | 3121.1 | 251 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 3 | 149 | 0.047869948 | 112 | 319 | 3112.6 | 251 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 4 | 156 | 0.049939177 | 112 | 320 | 3123.8 | 251 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 5 | 191 | 0.057211322 | 116 | 342 | 3338.5 | 273 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 6 | 327 | 0.080659086 | 133 | 415 | 4054.1 | 346 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 7 | 501 | 0.101089588 | 148 | 508 | 4956 | 448 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 8 | 1020 | 0.159589448 | 204 | 655 | 6391.4 | 611 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 9 | 879 | 0.133485194 | 395 | 675 | 6585 | 634 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 10 | 746 | 0.125073351 | 512 | 612 | 5964.5 | 564 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 11 | 904 | 0.154387403 | 509 | 600 | 5855.4 | 556 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 12 | 1206 | 0.182514339 | 555 | 677 | 6607.7 | 637 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 13 | 1245 | 0.178897303 | 598 | 714 | 6959.3 | 677 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 14 | 1208 | 0.172697251 | 622 | 717 | 6994.9 | 681 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 15 | 1175 | 0.168205569 | 663 | 716 | 6985.5 | 679 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 16 | 1095 | 0.162776869 | 679 | 690 | 6727 | 652 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 17 | 786 | 0.134324532 | 596 | 600 | 5851.5 | 557 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 18 | 878 | 0.150631348 | 553 | 598 | 5828.8 | 551 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 19 | 731 | 0.132737739 | 523 | 565 | 5507.1 | 519 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 20 | 495 | 0.104653375 | 482 | 485 | 4729.9 | 427 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 21 | 447 | 0.100165823 | 459 | 457 | 4462.6 | 401 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 22 | 313 | 0.076887175 | 415 | 417 | 4070.9 | 358 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 23 | 201 | 0.061720813 | 117 | 334 | 3256.6 | 267 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 0 | 214 | 0.068359687 | 103 | 321 | 3130.5 | 252 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 1 | 186 | 0.059753277 | 105 | 319 | 3112.8 | 253 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 2 | 166 | 0.053371057 | 108 | 319 | 3110.3 | 252 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 3 | 159 | 0.051563108 | 107 | 316 | 3083.6 | 252 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 4 | 158 | 0.050943092 | 114 | 318 | 3101.5 | 252 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 5 | 163 | 0.052691127 | 114 | 317 | 3093.5 | 254 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 6 | 222 | 0.066334001 | 127 | 343 | 3346.7 | 279 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 7 | 422 | 0.099749445 | 156 | 434 | 4230.6 | 373 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 8 | 786 | 0.142445496 | 187 | 566 | 5517.9 | 522 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 9 | 826 | 0.139233038 | 219 | 608 | 5932.5 | 569 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 10 | 674 | 0.114512895 | 235 | 603 | 5885.8 | 558 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 11 | 895 | 0.141493028 | 278 | 649 | 6325.4 | 610 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 12 | 888 | 0.133789342 | 331 | 681 | 6637.3 | 643 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 13 | 732 | 0.105036591 | 404 | 715 | 6969 | 669 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 14 | 793 | 0.111895019 | 446 | 727 | 7087 | 686 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 15 | 1036 | 0.132362336 | 602 | 803 | 7827 | 761 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 16 | 942 | 0.119165085 | 695 | 811 | 7905 | 767 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 17 | 891 | 0.115401054 | 633 | 792 | 7720.9 | 756 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 18 | 787 | 0.11041275 | 498 | 731 | 7127.8 | 681 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 19 | 719 | 0.10988843 | 458 | 671 | 6543 | 623 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 20 | 442 | 0.082322922 | 311 | 550 | 5369.1 | 492 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 21 | 292 | 0.065403396 | 227 | 458 | 4464.6 | 389 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 22 | 218 | 0.060516892 | 165 | 369 | 3602.3 | 299 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 23 | 200 | 0.063698325 | 141 | 322 | 3139.8 | 251 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 0 | 192 | 0.061528601 | 131 | 320 | 3120.5 | 250 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 1 | 204 | 0.065823438 | 124 | 318 | 3099.2 | 251 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 2 | 178 | 0.05745086 | 117 | 317 | 3098.3 | 250 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 3 | 178 | 0.057530705 | 114 | 317 | 3094 | 251 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 4 | 324 | 0.087031267 | 152 | 382 | 3722.8 | 321 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 5 | 890 | 0.156634988 | 193 | 583 | 5682 | 532 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 6 | 1126 | 0.165588235 | 244 | 697 | 6800 | 652 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 7 | 1177 | 0.162578043 | 376 | 742 | 7239.6 | 707 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 8 | 1071 | 0.138899697 | 555 | 791 | 7710.6 | 769 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 9 | 910 | 0.11824017 | 708 | 789 | 7696.2 | 770 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 10 | 944 | 0.122386009 | 647 | 791 | 7713.3 | 769 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 11 | 988 | 0.127232689 | 761 | 796 | 7765.3 | 769 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 12 | 1005 | 0.128651527 | 906 | 801 | 7811.8 | 769 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 13 | 1007 | 0.129596026 | 924 | 797 | 7770.3 | 767 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 14 | 924 | 0.117729502 | 934 | 805 | 7848.5 | 769 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 15 | 890 | 0.113182593 | 943 | 806 | 7863.4 | 769 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 16 | 939 | 0.120604177 | 887 | 798 | 7785.8 | 768 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 17 | 1184 | 0.152011195 | 599 | 799 | 7788.9 | 768 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 18 | 1061 | 0.135402443 | 540 | 804 | 7835.9 | 767 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 19 | 936 | 0.120081594 | 506 | 799 | 7794.7 | 763 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 20 | 799 | 0.114978918 | 90 | 713 | 6949.1 | 666 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 21 | 927 | 0.138620968 | 461 | 686 | 6687.3 | 633 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 22 | 729 | 0.118457614 | 504 | 631 | 6154.1 | 575 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 23 | 513 | 0.107698444 | 338 | 488 | 4763.3 | 426 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 0 | 294 | 0.077757207 | 279 | 387 | 3781 | 322 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 1 | 265 | 0.073232742 | 365 | 371 | 3618.6 | 303 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 2 | 214 | 0.067019511 | 249 | 327 | 3193.1 | 260 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 3 | 228 | 0.068975949 | 277 | 339 | 3305.5 | 273 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 4 | 467 | 0.11001437 | 526 | 435 | 4244.9 | 377 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 5 | 1104 | 0.172198652 | 557 | 657 | 6411.2 | 617 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 6 | 1296 | 0.168416675 | 715 | 789 | 7695.2 | 769 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 7 | 1135 | 0.14824393 | 696 | 785 | 7656.3 | 769 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 8 | 1013 | 0.132463321 | 1514 | 784 | 7647.4 | 769 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 9 | 1040 | 0.135731252 | 743 | 786 | 7662.2 | 769 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 10 | 1158 | 0.150177022 | 640 | 791 | 7710.9 | 768 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 11 | 1176 | 0.15279077 | 600 | 789 | 7696.8 | 767 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 12 | 1107 | 0.143518338 | 609 | 791 | 7713.3 | 768 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 13 | 1092 | 0.141271443 | 610 | 793 | 7729.8 | 768 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 14 | 1108 | 0.141849419 | 609 | 801 | 7811.1 | 768 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 15 | 1153 | 0.148122455 | 607 | 798 | 7784.1 | 766 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 16 | 1154 | 0.148409167 | 591 | 797 | 7775.8 | 767 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 17 | 1178 | 0.151655595 | 598 | 797 | 7767.6 | 766 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 18 | 1097 | 0.139542575 | 613 | 806 | 7861.4 | 769 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 19 | 1045 | 0.132939815 | 613 | 806 | 7860.7 | 770 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 20 | 885 | 0.112819336 | 619 | 804 | 7844.4 | 773 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 21 | 618 | 0.084123981 | 565 | 753 | 7346.3 | 725 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 22 | 582 | 0.088921483 | 451 | 671 | 6545.1 | 625 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 23 | 191 | 0.041705789 | 316 | 469 | 4579.7 | 411 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 0 | 91 | 0.027370891 | 568 | 341 | 3324.7 | 275 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 1 | 76 | 0.024495584 | 180 | 318 | 3102.6 | 251 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 2 | 55 | 0.01777232 | 492 | 317 | 3094.7 | 251 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 3 | 62 | 0.020092034 | 200 | 316 | 3085.8 | 251 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 4 | 67 | 0.020150982 | 212 | 341 | 3324.9 | 272 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 5 | 183 | 0.040240121 | 286 | 466 | 4547.7 | 410 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 6 | 329 | 0.053693247 | 435 | 628 | 6127.4 | 590 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 7 | 409 | 0.068895814 | 445 | 609 | 5936.5 | 559 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 8 | 852 | 0.119130848 | 557 | 733 | 7151.8 | 694 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 9 | 908 | 0.115973127 | 782 | 803 | 7829.4 | 769 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 10 | 743 | 0.094567763 | 660 | 806 | 7856.8 | 767 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 11 | 681 | 0.087236114 | 702 | 800 | 7806.4 | 764 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 12 | 805 | 0.103266029 | 678 | 799 | 7795.4 | 767 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 13 | 838 | 0.107042038 | 634 | 803 | 7828.7 | 763 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 14 | 638 | 0.081462754 | 681 | 803 | 7831.8 | 768 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 15 | 602 | 0.07683962 | 673 | 803 | 7834.5 | 767 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 16 | 628 | 0.079731857 | 677 | 808 | 7876.4 | 767 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 17 | 565 | 0.072126125 | 697 | 803 | 7833.5 | 768 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 18 | 576 | 0.073948544 | 677 | 799 | 7789.2 | 766 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 19 | 735 | 0.094775119 | 628 | 795 | 7755.2 | 764 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 20 | 859 | 0.110700156 | 628 | 796 | 7759.7 | 765 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 21 | 806 | 0.108044344 | 574 | 765 | 7459.9 | 734 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 22 | 552 | 0.08933629 | 383 | 634 | 6178.9 | 583 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 23 | 306 | 0.06842729 | 223 | 458 | 4471.9 | 405 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 0 | 150 | 0.047165362 | 162 | 326 | 3180.3 | 260 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 1 | 199 | 0.064725972 | 144 | 315 | 3074.5 | 251 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 2 | 183 | 0.059539302 | 132 | 315 | 3073.6 | 251 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 3 | 184 | 0.059899733 | 122 | 315 | 3071.8 | 250 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 4 | 184 | 0.059544999 | 123 | 317 | 3090.1 | 251 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 5 | 385 | 0.099496059 | 154 | 397 | 3869.5 | 342 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 6 | 770 | 0.137188875 | 202 | 575 | 5612.7 | 527 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 7 | 745 | 0.125224816 | 238 | 610 | 5949.3 | 567 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 8 | 1149 | 0.16180136 | 319 | 728 | 7101.3 | 691 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 9 | 1004 | 0.130591434 | 453 | 788 | 7688.1 | 762 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 10 | 972 | 0.123816924 | 596 | 805 | 7850.3 | 768 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 11 | 1082 | 0.138604222 | 608 | 800 | 7806.4 | 768 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 12 | 1195 | 0.155100134 | 631 | 790 | 7704.7 | 767 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 13 | 1132 | 0.15053792 | 518 | 771 | 7519.7 | 754 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 14 | 778 | 0.116734437 | 433 | 683 | 6664.7 | 651 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 15 | 935 | 0.13920941 | 490 | 689 | 6716.5 | 656 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 16 | 943 | 0.139908903 | 492 | 691 | 6740.1 | 656 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 17 | 970 | 0.143656882 | 499 | 692 | 6752.2 | 656 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 18 | 934 | 0.137456033 | 1528 | 697 | 6794.9 | 656 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 19 | 744 | 0.109098908 | 661 | 699 | 6819.5 | 656 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 20 | 703 | 0.103083713 | 709 | 699 | 6819.7 | 657 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 21 | 733 | 0.110230537 | 645 | 682 | 6649.7 | 639 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 22 | 658 | 0.107379484 | 576 | 628 | 6127.8 | 581 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 23 | 284 | 0.062855499 | 456 | 463 | 4518.3 | 403 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 0 | 162 | 0.044487162 | 371 | 373 | 3641.5 | 310 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 1 | 135 | 0.043929583 | 350 | 315 | 3073.1 | 251 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 2 | 180 | 0.05877551 | 339 | 314 | 3062.5 | 251 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 3 | 134 | 0.044256556 | 211 | 310 | 3027.8 | 251 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 4 | 165 | 0.051528684 | 214 | 328 | 3202.1 | 265 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 5 | 614 | 0.120158907 | 332 | 524 | 5109.9 | 478 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 6 | 1114 | 0.166127325 | 482 | 688 | 6705.7 | 651 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 7 | 885 | 0.129543159 | 526 | 700 | 6831.7 | 666 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 8 | 793 | 0.115609465 | 521 | 703 | 6859.3 | 666 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 9 | 797 | 0.116486407 | 554 | 702 | 6842 | 666 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 10 | 896 | 0.128893045 | 556 | 713 | 6951.5 | 667 |

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|----|---------------|---|------|-----------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 11 | 909 | 0.131049695 | 548 | 711 | 6936.3 | 668 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 12 | 916 | 0.131840295 | 528 | 712 | 6947.8 | 668 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 13 | 898 | 0.129918981 | 532 | 709 | 6912 | 668 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 14 | 838 | 0.121285803 | 532 | 708 | 6909.3 | 668 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 15 | 799 | 0.115540902 | 546 | 709 | 6915.3 | 668 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 16 | 847 | 0.122076013 | 548 | 711 | 6938.3 | 668 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 17 | 869 | 0.125500051 | 547 | 710 | 6924.3 | 668 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 18 | 867 | 0.124450952 | 543 | 714 | 6966.6 | 668 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 19 | 844 | 0.121842067 | 526 | 710 | 6927 | 668 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 20 | 841 | 0.12027688 | 538 | 717 | 6992.2 | 668 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 21 | 850 | 0.123076032 | 538 | 708 | 6906.3 | 665 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 22 | 760 | 0.114131251 | 506 | 683 | 6659 | 632 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 23 | 675 | 0.102370445 | 481 | 676 | 6593.7 | 622 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 0 | 515 | 0.085624979 | 433 | 617 | 6014.6 | 562 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 1 | 236 | 0.053500181 | 313 | 452 | 4411.2 | 390 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 2 | 109 | 0.034663699 | 223 | 322 | 3144.5 | 244 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 3 | 98 | 0.034271726 | 200 | 293 | 2859.5 | 226 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 4 | 133 | 0.043509552 | 220 | 313 | 3056.8 | 244 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 5 | 209 | 0.056535382 | 262 | 379 | 3696.8 | 319 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 6 | 374 | 0.079381925 | 334 | 483 | 4711.4 | 436 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 7 | 532 | 0.092608711 | 396 | 589 | 5744.6 | 552 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 8 | 670 | 0.101458273 | 501 | 677 | 6603.7 | 649 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 9 | 550 | 0.081744274 | 545 | 690 | 6728.3 | 662 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 10 | 402 | 0.059076815 | 551 | 698 | 6804.7 | 668 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 11 | 507 | 0.074451526 | 544 | 698 | 6809.8 | 671 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 12 | 682 | 0.100224845 | 544 | 698 | 6804.7 | 671 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 13 | 819 | 0.127795029 | 493 | 657 | 6408.7 | 636 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 14 | 843 | 0.130880298 | 476 | 660 | 6441 | 637 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 15 | 728 | 0.117869922 | 457 | 633 | 6176.3 | 610 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 16 | 840 | 0.14129996 | 428 | 609 | 5944.8 | 570 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 17 | 864 | 0.142053862 | 413 | 624 | 6082.2 | 589 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 18 | 965 | 0.146411774 | 468 | 676 | 6591 | 641 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 19 | 542 | 0.10184524 | 383 | 546 | 5321.8 | 504 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 20 | 448 | 0.106050563 | 274 | 433 | 4224.4 | 383 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 21 | 163 | 0.051531725 | 202 | 324 | 3163.1 | 269 |

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|----|---------------|---|------|-----------|----|-----|--------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 22 | 126 | 0.044477391 | 181 | 290 | 2832.9 | 226 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 23 | 118 | 0.042120293 | 184 | 287 | 2801.5 | 226 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 0 | 109 | 0.039152299 | 183 | 285 | 2784 | 225 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 1 | 118 | 0.041426766 | 196 | 292 | 2848.4 | 226 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 2 | 112 | 0.039132106 | 203 | 293 | 2862.1 | 226 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 3 | 107 | 0.037493868 | 205 | 292 | 2853.8 | 226 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 4 | 113 | 0.041304189 | 202 | 280 | 2735.8 | 226 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 5 | 108 | 0.040026684 | 197 | 276 | 2698.2 | 226 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 6 | 142 | 0.051800241 | 194 | 281 | 2741.3 | 226 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 7 | 124 | 0.045209275 | 197 | 281 | 2742.8 | 226 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 8 | 168 | 0.052562418 | 226 | 327 | 3196.2 | 276 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 9 | 262 | 0.066424968 | 268 | 404 | 3944.3 | 349 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 10 | 251 | 0.063348645 | 273 | 406 | 3962.2 | 371 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 11 | 342 | 0.074844075 | 301 | 468 | 4569.5 | 423 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 12 | 719 | 0.1244446137 | 387 | 592 | 5777.6 | 563 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 13 | 695 | 0.114839968 | 417 | 620 | 6051.9 | 599 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 14 | 708 | 0.112906055 | 438 | 643 | 6270.7 | 622 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 15 | 642 | 0.106694143 | 415 | 617 | 6017.2 | 587 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 16 | 782 | 0.127286933 | 411 | 630 | 6143.6 | 600 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 17 | 633 | 0.114237245 | 387 | 568 | 5541.1 | 534 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 18 | 937 | 0.14969725 | 431 | 642 | 6259.3 | 616 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 19 | 631 | 0.111415203 | 407 | 581 | 5663.5 | 544 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 20 | 295 | 0.069354649 | 285 | 436 | 4253.5 | 395 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 21 | 163 | 0.053370878 | 210 | 313 | 3054.1 | 261 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 22 | 136 | 0.049789493 | 191 | 280 | 2731.5 | 225 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 23 | 133 | 0.04853129 | 197 | 281 | 2740.5 | 226 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 0 | 134 | 0.049145456 | 196 | 279 | 2726.6 | 226 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 1 | 131 | 0.047899375 | 202 | 280 | 2734.9 | 226 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 2 | 126 | 0.046024035 | 205 | 280 | 2737.7 | 226 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 3 | 128 | 0.04701043 | 206 | 279 | 2722.8 | 225 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 4 | 127 | 0.04610135 | 212 | 282 | 2754.8 | 226 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 5 | 141 | 0.048837934 | 222 | 296 | 2887.1 | 239 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 6 | 213 | 0.065554598 | 237 | 333 | 3249.2 | 284 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 7 | 148 | 0.049131893 | 228 | 309 | 3012.3 | 256 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 8 | 154 | 0.050867052 | 230 | 310 | 3027.5 | 257 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 9 | 263 | 0.070878025 | 289 | 380 | 3710.6 | 329 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 10 | 379 | 0.080884393 | 313 | 480 | 4685.7 | 444 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 11 | 685 | 0.122494233 | 374 | 573 | 5592.1 | 553 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 12 | 750 | 0.122669284 | 440 | 627 | 6114 | 627 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 13 | 873 | 0.133327224 | 504 | 671 | 6547.8 | 642 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 14 | 994 | 0.151955239 | 484 | 671 | 6541.4 | 643 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 15 | 874 | 0.135028659 | 466 | 664 | 6472.7 | 634 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 16 | 967 | 0.149055877 | 473 | 665 | 6487.5 | 645 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 17 | 955 | 0.148781704 | 481 | 658 | 6418.8 | 636 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 18 | 1001 | 0.147242693 | 537 | 697 | 6798.3 | 681 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 19 | 904 | 0.132835689 | 524 | 698 | 6805.4 | 681 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 20 | 880 | 0.135586953 | 480 | 665 | 6490.3 | 649 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 21 | 665 | 0.121563323 | 372 | 561 | 5470.4 | 541 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 22 | 704 | 0.14900417 | 316 | 484 | 4724.7 | 452 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 23 | 488 | 0.126618406 | 273 | 395 | 3854.1 | 362 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 0 | 201 | 0.068703856 | 225 | 300 | 2925.6 | 247 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 1 | 274 | 0.100835388 | 217 | 278 | 2717.3 | 226 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 2 | 348 | 0.129271917 | 218 | 276 | 2692 | 226 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 3 | 336 | 0.124670699 | 223 | 276 | 2695.1 | 226 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 4 | 332 | 0.121487119 | 229 | 280 | 2732.8 | 225 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 5 | 499 | 0.15838253 | 245 | 323 | 3150.6 | 273 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 6 | 746 | 0.196341624 | 269 | 389 | 3799.5 | 348 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 7 | 848 | 0.16925472 | 330 | 514 | 5010.2 | 488 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 8 | 796 | 0.144827335 | 384 | 563 | 5496.2 | 539 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 9 | 1070 | 0.177699538 | 433 | 617 | 6021.4 | 601 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 10 | 1704 | 0.253805594 | 496 | 688 | 6713.8 | 670 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 11 | 2496 | 0.354661324 | 570 | 722 | 7037.7 | 711 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 12 | 2458 | 0.326280298 | 640 | 772 | 7533.4 | 764 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 13 | 1210 | 0.175969285 | 550 | 705 | 6876.2 | 678 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 14 | 991 | 0.154121306 | 450 | 659 | 6430 | 628 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 15 | 1004 | 0.16145113 | 435 | 638 | 6218.6 | 604 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 16 | 876 | 0.132053002 | 464 | 680 | 6633.7 | 651 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 17 | 810 | 0.131891751 | 429 | 630 | 6141.4 | 598 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 18 | 1280 | 0.189021959 | 487 | 694 | 6771.7 | 670 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 19 | 961 | 0.14275104 | 478 | 690 | 6732 | 671 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 20 | 859 | 0.12845244 | 481 | 686 | 6687.3 | 667 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 21 | 844 | 0.135508317 | 423 | 639 | 6228.4 | 610 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 22 | 615 | 0.120425307 | 357 | 524 | 5106.9 | 485 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 23 | 278 | 0.081296058 | 253 | 350 | 3419.6 | 294 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 0 | 173 | 0.061918397 | 212 | 286 | 2794 | 226 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 1 | 166 | 0.060092673 | 212 | 283 | 2762.4 | 226 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 2 | 159 | 0.057214825 | 216 | 285 | 2779 | 226 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 3 | 161 | 0.058814934 | 199 | 280 | 2737.4 | 226 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 4 | 181 | 0.064698313 | 201 | 287 | 2797.6 | 225 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 5 | 172 | 0.062011032 | 194 | 284 | 2773.7 | 226 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 6 | 248 | 0.0817888 | 209 | 311 | 3032.2 | 257 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 7 | 248 | 0.074604416 | 216 | 341 | 3324.2 | 290 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 8 | 342 | 0.088049019 | 240 | 398 | 3884.2 | 356 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 9 | 814 | 0.150201129 | 303 | 556 | 5419.4 | 518 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 10 | 799 | 0.128576486 | 372 | 637 | 6214.2 | 603 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 11 | 635 | 0.103737829 | 391 | 628 | 6121.2 | 588 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 12 | 608 | 0.104275644 | 419 | 598 | 5830.7 | 557 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 13 | 728 | 0.124401914 | 438 | 600 | 5852 | 556 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 14 | 1042 | 0.165155646 | 511 | 647 | 6309.2 | 607 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 15 | 733 | 0.118277314 | 539 | 635 | 6197.3 | 599 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 16 | 614 | 0.105326357 | 489 | 598 | 5829.5 | 557 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 17 | 849 | 0.144220969 | 488 | 604 | 5886.8 | 562 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 18 | 1111 | 0.166230269 | 588 | 685 | 6683.5 | 653 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 19 | 941 | 0.140040182 | 624 | 689 | 6719.5 | 660 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 20 | 1126 | 0.167746741 | 604 | 688 | 6712.5 | 660 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 21 | 1165 | 0.178058324 | 569 | 671 | 6542.8 | 640 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 22 | 1108 | 0.170684742 | 512 | 666 | 6491.5 | 631 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 23 | 561 | 0.106916201 | 393 | 538 | 5247.1 | 492 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 0 | 175 | 0.054027353 | 262 | 332 | 3239.1 | 270 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 1 | 205 | 0.072785372 | 214 | 289 | 2816.5 | 226 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 2 | 194 | 0.06998557 | 205 | 284 | 2772 | 226 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 3 | 169 | 0.061334108 | 192 | 282 | 2755.4 | 226 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 4 | 184 | 0.066763425 | 198 | 282 | 2756 | 225 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 5 | 176 | 0.064360418 | 188 | 280 | 2734.6 | 226 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 6 | 233 | 0.079709897 | 195 | 299 | 2923.1 | 243 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 7 | 341 | 0.095451365 | 253 | 366 | 3572.5 | 316 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 8 | 342 | 0.086191688 | 277 | 407 | 3967.9 | 357 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 9 | 489 | 0.109543011 | 285 | 458 | 4464 | 408 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 10 | 487 | 0.097915033 | 318 | 510 | 4973.7 | 459 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 11 | 885 | 0.16517049 | 337 | 549 | 5358.1 | 504 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 12 | 1148 | 0.178235961 | 405 | 660 | 6440.9 | 626 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 13 | 713 | 0.122622364 | 389 | 596 | 5814.6 | 562 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 14 | 1246 | 0.211046935 | 371 | 605 | 5903.9 | 567 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 15 | 1104 | 0.181713439 | 382 | 623 | 6075.5 | 584 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 16 | 655 | 0.105378316 | 416 | 637 | 6215.7 | 604 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 17 | 1139 | 0.178227737 | 402 | 655 | 6390.7 | 619 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 18 | 988 | 0.147150815 | 436 | 688 | 6714.2 | 660 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 19 | 855 | 0.128270523 | 453 | 683 | 6665.6 | 660 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 20 | 914 | 0.139271946 | 433 | 673 | 6562.7 | 650 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 21 | 672 | 0.120102945 | 346 | 574 | 5595.2 | 533 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 22 | 535 | 0.111442081 | 288 | 492 | 4800.7 | 438 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 23 | 205 | 0.061353365 | 210 | 342 | 3341.3 | 281 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 0 | 193 | 0.068702834 | 179 | 288 | 2809.2 | 226 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 1 | 180 | 0.06525522 | 179 | 283 | 2758.4 | 226 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 2 | 181 | 0.066171901 | 177 | 280 | 2735.3 | 226 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 3 | 199 | 0.071789322 | 183 | 284 | 2772 | 226 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 4 | 182 | 0.066698428 | 188 | 280 | 2728.7 | 226 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 5 | 180 | 0.06549265 | 184 | 282 | 2748.4 | 231 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 6 | 248 | 0.080435911 | 194 | 316 | 3083.2 | 262 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 7 | 287 | 0.080667828 | 227 | 365 | 3557.8 | 318 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 8 | 293 | 0.075422158 | 244 | 398 | 3884.8 | 355 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 9 | 276 | 0.071319672 | 259 | 397 | 3869.9 | 357 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 10 | 358 | 0.086184068 | 265 | 426 | 4153.9 | 388 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 11 | 562 | 0.113834312 | 320 | 506 | 4937 | 482 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 12 | 826 | 0.139924109 | 436 | 605 | 5903.2 | 584 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 13 | 926 | 0.148492623 | 511 | 639 | 6236 | 617 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 14 | 794 | 0.132538768 | 563 | 614 | 5990.7 | 584 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 15 | 934 | 0.155399897 | 577 | 616 | 6010.3 | 580 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 16 | 918 | 0.148133805 | 576 | 635 | 6197.1 | 604 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 17 | 694 | 0.118252454 | 369 | 602 | 5868.8 | 571 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 18 | 1070 | 0.163231682 | 452 | 672 | 6555.1 | 655 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 19 | 1030 | 0.154138545 | 467 | 685 | 6682.3 | 672 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 20 | 745 | 0.123356625 | 374 | 619 | 6039.4 | 597 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 21 | 555 | 0.110353329 | 281 | 516 | 5029.3 | 489 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 22 | 371 | 0.086743044 | 243 | 438 | 4277 | 397 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 23 | 207 | 0.059724747 | 208 | 355 | 3465.9 | 306 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 0 | 162 | 0.054176978 | 194 | 306 | 2990.2 | 252 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 1 | 126 | 0.04634909 | 184 | 278 | 2718.5 | 228 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 2 | 120 | 0.044081993 | 190 | 279 | 2722.2 | 226 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 3 | 122 | 0.04457598 | 194 | 280 | 2736.9 | 226 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 4 | 117 | 0.042630716 | 197 | 281 | 2744.5 | 225 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 5 | 112 | 0.040706549 | 198 | 282 | 2751.4 | 226 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 6 | 161 | 0.055593923 | 202 | 297 | 2896 | 241 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 7 | 162 | 0.05394785 | 210 | 308 | 3002.9 | 256 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 8 | 164 | 0.050810174 | 213 | 331 | 3227.7 | 282 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 9 | 302 | 0.072704512 | 253 | 426 | 4153.8 | 375 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 10 | 255 | 0.059376892 | 262 | 440 | 4294.6 | 392 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 11 | 536 | 0.099681985 | 328 | 551 | 5377.1 | 517 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 12 | 743 | 0.120298561 | 426 | 633 | 6176.3 | 606 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 13 | 527 | 0.090123985 | 421 | 600 | 5847.5 | 558 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 14 | 695 | 0.112419527 | 445 | 634 | 6182.2 | 596 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 15 | 887 | 0.137790689 | 437 | 660 | 6437.3 | 624 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 16 | 630 | 0.109416791 | 362 | 590 | 5757.8 | 545 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 17 | 654 | 0.1213088 | 318 | 553 | 5391.2 | 507 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 18 | 633 | 0.109871036 | 334 | 591 | 5761.3 | 545 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 19 | 478 | 0.098043237 | 282 | 500 | 4875.4 | 453 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 20 | 323 | 0.075750469 | 247 | 437 | 4264 | 382 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 21 | 161 | 0.046241778 | 215 | 357 | 3481.7 | 301 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 22 | 122 | 0.040146105 | 197 | 311 | 3038.9 | 251 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 23 | 112 | 0.037900579 | 195 | 303 | 2955.1 | 251 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 0 | 89 | 0.031370061 | 187 | 291 | 2837.1 | 240 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 1 | 76 | 0.028409091 | 187 | 274 | 2675.2 | 226 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 2 | 73 | 0.027307074 | 189 | 274 | 2673.3 | 226 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 3 | 67 | 0.025153927 | 189 | 273 | 2663.6 | 226 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 4 | 67 | 0.025046729 | 198 | 274 | 2675 | 225 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 5 | 68 | 0.025109856 | 195 | 277 | 2708.1 | 225 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 6 | 107 | 0.039557839 | 197 | 277 | 2704.9 | 225 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 7 | 97 | 0.035659143 | 204 | 279 | 2720.2 | 230 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 8 | 142 | 0.044456968 | 220 | 327 | 3194.1 | 278 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 9 | 136 | 0.043092522 | 211 | 323 | 3156 | 276 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 10 | 362 | 0.082418833 | 281 | 450 | 4392.2 | 402 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 11 | 656 | 0.112627693 | 378 | 597 | 5824.5 | 561 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 12 | 1022 | 0.142566191 | 595 | 735 | 7168.6 | 703 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 13 | 912 | 0.117681975 | 713 | 795 | 7749.7 | 771 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 14 | 1036 | 0.133699846 | 604 | 795 | 7748.7 | 768 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 15 | 1047 | 0.135365759 | 595 | 793 | 7734.6 | 770 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 16 | 988 | 0.127533239 | 596 | 794 | 7747 | 769 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 17 | 1110 | 0.143192549 | 581 | 795 | 7751.8 | 768 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 18 | 915 | 0.126805067 | 497 | 740 | 7215.8 | 719 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 19 | 804 | 0.124279288 | 427 | 663 | 6469.3 | 632 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 20 | 779 | 0.134814738 | 352 | 592 | 5778.3 | 548 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 21 | 732 | 0.142174572 | 278 | 528 | 5148.6 | 482 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 22 | 344 | 0.085062189 | 226 | 414 | 4044.1 | 359 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 23 | 181 | 0.058758603 | 194 | 316 | 3080.4 | 258 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 0 | 148 | 0.051835248 | 179 | 292 | 2855.2 | 241 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 1 | 105 | 0.038814136 | 175 | 277 | 2705.2 | 226 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 2 | 114 | 0.041401852 | 179 | 282 | 2753.5 | 226 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 3 | 105 | 0.038804095 | 178 | 277 | 2705.9 | 226 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 4 | 104 | 0.038162337 | 185 | 279 | 2725.2 | 226 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 5 | 114 | 0.040333994 | 186 | 290 | 2826.4 | 237 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 6 | 195 | 0.060956549 | 204 | 328 | 3199 | 276 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 7 | 244 | 0.064322244 | 265 | 389 | 3793.4 | 339 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 8 | 231 | 0.056954067 | 267 | 416 | 4055.9 | 364 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 9 | 374 | 0.076265829 | 304 | 503 | 4903.9 | 469 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 10 | 899 | 0.135031618 | 432 | 683 | 6657.7 | 656 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 11 | 959 | 0.125970392 | 639 | 781 | 7612.9 | 764 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 12 | 699 | 0.090982454 | 637 | 788 | 7682.8 | 768 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 13 | 664 | 0.086916683 | 595 | 783 | 7639.5 | 767 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 14 | 703 | 0.091977182 | 558 | 784 | 7643.2 | 759 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 15 | 766 | 0.09956845 | 584 | 789 | 7693.2 | 768 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 16 | 718 | 0.092546047 | 597 | 796 | 7758.3 | 767 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 17 | 480 | 0.068578286 | 629 | 718 | 6999.3 | 685 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 18 | 453 | 0.064720758 | 587 | 718 | 6999.3 | 680 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 19 | 432 | 0.062383572 | 595 | 710 | 6924.9 | 676 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 20 | 383 | 0.058230581 | 559 | 674 | 6577.3 | 642 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 21 | 295 | 0.048695939 | 478 | 621 | 6058 | 583 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 22 | 296 | 0.04893209 | 465 | 620 | 6049.2 | 594 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 23 | 220 | 0.040234825 | 442 | 561 | 5467.9 | 524 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 0 | 146 | 0.031213255 | 355 | 479 | 4677.5 | 440 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 1 | 83 | 0.023199911 | 329 | 367 | 3577.6 | 319 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 2 | 54 | 0.018421861 | 316 | 300 | 2931.3 | 251 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 3 | 70 | 0.023847648 | 311 | 301 | 2935.3 | 252 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 4 | 86 | 0.029334516 | 304 | 300 | 2931.7 | 253 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 5 | 107 | 0.03445278 | 313 | 318 | 3105.7 | 272 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 6 | 299 | 0.066407551 | 351 | 462 | 4502.5 | 425 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 7 | 445 | 0.074835194 | 398 | 610 | 5946.4 | 581 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 8 | 494 | 0.075318656 | 459 | 672 | 6558.8 | 653 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 9 | 683 | 0.104147606 | 531 | 672 | 6558 | 641 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 10 | 714 | 0.121847162 | 527 | 601 | 5859.8 | 558 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 11 | 1124 | 0.162223794 | 630 | 710 | 6928.7 | 673 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 12 | 1230 | 0.159557908 | 763 | 790 | 7708.8 | 770 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 13 | 1012 | 0.131818892 | 767 | 787 | 7677.2 | 768 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 14 | 339 | 0.04848953 | 664 | 717 | 6991.2 | 688 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 15 | 298 | 0.046711393 | 567 | 654 | 6379.6 | 619 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 16 | 469 | 0.077241061 | 534 | 623 | 6071.9 | 578 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 17 | 1166 | 0.174736621 | 560 | 684 | 6672.9 | 650 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 18 | 966 | 0.145381212 | 558 | 681 | 6644.6 | 632 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 19 | 879 | 0.129127982 | 565 | 698 | 6807.2 | 643 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 20 | 897 | 0.133998596 | 548 | 686 | 6694.1 | 627 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 21 | 750 | 0.123856393 | 490 | 621 | 6055.4 | 557 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 22 | 697 | 0.125862256 | 443 | 568 | 5537.8 | 495 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 23 | 320 | 0.079406437 | 378 | 413 | 4029.9 | 338 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 0 | 268 | 0.07935333 | 337 | 346 | 3377.3 | 275 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 1 | 179 | 0.060413784 | 302 | 304 | 2962.9 | 239 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 2 | 156 | 0.056165617 | 294 | 285 | 2777.5 | 226 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 3 | 149 | 0.054886359 | 287 | 278 | 2714.7 | 226 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 4 | 144 | 0.05292561 | 283 | 279 | 2720.8 | 226 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 5 | 270 | 0.079209083 | 317 | 349 | 3408.7 | 301 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 6 | 559 | 0.105015968 | 351 | 546 | 5323 | 507 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 7 | 512 | 0.089530837 | 366 | 586 | 5718.7 | 557 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 8 | 509 | 0.08991662 | 520 | 580 | 5660.8 | 547 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 9 | 497 | 0.092509865 | 381 | 551 | 5372.4 | 507 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 10 | 420 | 0.085612948 | 397 | 503 | 4905.8 | 458 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 11 | 422 | 0.085913801 | 378 | 504 | 4911.9 | 459 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 12 | 639 | 0.114160146 | 397 | 574 | 5597.4 | 536 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 13 | 777 | 0.124272279 | 437 | 641 | 6252.4 | 617 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 14 | 755 | 0.114694578 | 599 | 675 | 6582.7 | 659 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 15 | 657 | 0.098980068 | 484 | 681 | 6637.7 | 661 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 16 | 556 | 0.090837799 | 599 | 628 | 6120.8 | 604 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 17 | 636 | 0.101607183 | 625 | 642 | 6259.4 | 619 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 18 | 765 | 0.115861693 | 673 | 677 | 6602.7 | 660 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 19 | 644 | 0.098565897 | 352 | 670 | 6533.7 | 652 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 20 | 557 | 0.086652147 | 469 | 659 | 6428 | 651 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 21 | 471 | 0.078780986 | 352 | 613 | 5978.6 | 593 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 22 | 469 | 0.081945731 | 286 | 587 | 5723.3 | 558 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 23 | 239 | 0.055107217 | 234 | 445 | 4337 | 400 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 0 | 221 | 0.061585621 | 186 | 368 | 3588.5 | 323 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 1 | 144 | 0.050106128 | 175 | 294 | 2873.9 | 244 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 2 | 127 | 0.047092851 | 97 | 276 | 2696.8 | 226 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 3 | 116 | 0.042453521 | 84 | 280 | 2732.4 | 226 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 4 | 117 | 0.041785714 | 89 | 287 | 2800 | 235 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 5 | 263 | 0.072274588 | 138 | 373 | 3638.9 | 327 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 6 | 828 | 0.141308985 | 392 | 601 | 5859.5 | 564 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 7 | 824 | 0.126018933 | 549 | 670 | 6538.7 | 659 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 8 | 772 | 0.121914628 | 411 | 649 | 6332.3 | 634 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 9 | 722 | 0.124371253 | 359 | 595 | 5805.2 | 582 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 10 | 553 | 0.101315452 | 354 | 560 | 5458.2 | 542 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 11 | 553 | 0.099569672 | 288 | 569 | 5553.9 | 551 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 12 | 722 | 0.120948153 | 352 | 612 | 5969.5 | 590 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 13 | 1063 | 0.165447471 | 411 | 659 | 6425 | 650 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 14 | 941 | 0.144349507 | 436 | 668 | 6518.9 | 660 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 15 | 823 | 0.129057551 | 420 | 654 | 6377 | 653 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 16 | 690 | 0.114614132 | 385 | 617 | 6020.2 | 605 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 17 | 911 | 0.153310222 | 374 | 609 | 5942.2 | 592 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 18 | 988 | 0.152941176 | 426 | 662 | 6460 | 660 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 19 | 857 | 0.128680611 | 472 | 683 | 6659.9 | 676 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 20 | 876 | 0.13073261 | 462 | 687 | 6700.7 | 680 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 21 | 871 | 0.132143887 | 428 | 676 | 6591.3 | 671 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 22 | 675 | 0.111014259 | 401 | 623 | 6080.3 | 621 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 23 | 364 | 0.074619216 | 287 | 500 | 4878.1 | 478 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 0 | 199 | 0.053557972 | 222 | 381 | 3715.6 | 343 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 1 | 119 | 0.043123754 | 176 | 283 | 2759.5 | 241 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 2 | 111 | 0.041712074 | 173 | 273 | 2661.1 | 226 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 3 | 101 | 0.03804573 | 172 | 272 | 2654.7 | 225 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 4 | 99 | 0.037089765 | 176 | 273 | 2669.2 | 225 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 5 | 132 | 0.044638328 | 198 | 303 | 2957.1 | 258 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 6 | 468 | 0.102034142 | 293 | 470 | 4586.7 | 432 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 7 | 692 | 0.119203473 | 377 | 595 | 5805.2 | 579 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 8 | 628 | 0.103734783 | 417 | 621 | 6053.9 | 613 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 9 | 783 | 0.11855194 | 468 | 677 | 6604.7 | 675 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 10 | 920 | 0.130252577 | 529 | 724 | 7063.2 | 726 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 11 | 986 | 0.13445149 | 586 | 752 | 7333.5 | 767 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 12 | 1009 | 0.137901815 | 585 | 750 | 7316.8 | 767 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 13 | 1077 | 0.145881588 | 583 | 757 | 7382.7 | 768 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 14 | 1109 | 0.149852715 | 577 | 759 | 7400.6 | 768 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 15 | 1068 | 0.146143215 | 570 | 749 | 7307.9 | 766 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 16 | 1070 | 0.145027718 | 568 | 757 | 7377.9 | 766 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 17 | 1079 | 0.14643812 | 589 | 756 | 7368.3 | 768 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 18 | 1077 | 0.147018674 | 578 | 751 | 7325.6 | 767 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 19 | 1071 | 0.146064045 | 571 | 752 | 7332.4 | 768 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 20 | 1050 | 0.142336212 | 553 | 756 | 7376.9 | 765 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 21 | 740 | 0.120299774 | 418 | 631 | 6151.3 | 627 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 22 | 1022 | 0.175231041 | 384 | 598 | 5832.3 | 585 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 23 | 744 | 0.137729317 | 329 | 554 | 5401.9 | 532 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 0 | 403 | 0.087595366 | 280 | 472 | 4600.7 | 441 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 1 | 338 | 0.089146776 | 235 | 389 | 3791.5 | 353 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 2 | 209 | 0.072458744 | 190 | 295 | 2884.4 | 254 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 3 | 153 | 0.057236916 | 189 | 274 | 2673.1 | 225 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 4 | 154 | 0.057783948 | 191 | 273 | 2665.1 | 227 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 5 | 247 | 0.076987813 | 218 | 329 | 3208.3 | 284 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 6 | 638 | 0.14016741 | 282 | 467 | 4551.7 | 435 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 7 | 844 | 0.151858649 | 339 | 570 | 5557.8 | 554 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 8 | 999 | 0.157414557 | 412 | 651 | 6346.3 | 639 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 9 | 1192 | 0.16529384 | 555 | 739 | 7211.4 | 746 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 10 | 1030 | 0.138442721 | 632 | 763 | 7439.9 | 769 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 11 | 954 | 0.128538514 | 608 | 761 | 7421.9 | 768 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 12 | 1049 | 0.141093237 | 572 | 762 | 7434.8 | 766 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 13 | 1146 | 0.152476749 | 571 | 771 | 7515.9 | 768 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 14 | 1144 | 0.151360792 | 582 | 775 | 7558.1 | 767 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 15 | 1127 | 0.149334817 | 581 | 774 | 7546.8 | 767 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 16 | 1142 | 0.150842711 | 583 | 776 | 7570.8 | 767 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 17 | 1109 | 0.146124858 | 592 | 778 | 7589.4 | 768 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 18 | 1063 | 0.140076693 | 591 | 778 | 7588.7 | 767 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 19 | 1019 | 0.13506707 | 596 | 774 | 7544.4 | 769 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 20 | 1003 | 0.132517704 | 590 | 776 | 7568.8 | 768 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 21 | 1108 | 0.146376907 | 567 | 776 | 7569.5 | 767 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 22 | 1071 | 0.150486869 | 512 | 730 | 7116.9 | 720 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 23 | 567 | 0.098624132 | 379 | 589 | 5749.1 | 557 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 0 | 363 | 0.071591985 | 329 | 520 | 5070.4 | 473 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 1 | 260 | 0.062587261 | 270 | 426 | 4154.2 | 379 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 2 | 146 | 0.04789712 | 198 | 312 | 3048.2 | 260 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 3 | 120 | 0.043993108 | 190 | 279 | 2727.7 | 226 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 4 | 120 | 0.043946385 | 196 | 280 | 2730.6 | 226 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 5 | 116 | 0.042461291 | 199 | 280 | 2731.9 | 226 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 6 | 216 | 0.06651475 | 230 | 333 | 3247.4 | 277 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 7 | 415 | 0.093405357 | 271 | 455 | 4443 | 412 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 8 | 826 | 0.134383236 | 393 | 630 | 6146.6 | 601 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 9 | 1126 | 0.151443827 | 550 | 762 | 7435.1 | 744 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 10 | 1035 | 0.136458924 | 584 | 778 | 7584.7 | 766 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 11 | 970 | 0.127631579 | 600 | 779 | 7600 | 767 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 12 | 1002 | 0.130649073 | 621 | 786 | 7669.4 | 767 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 13 | 1039 | 0.13582232 | 634 | 784 | 7649.7 | 766 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 14 | 1086 | 0.142366482 | 610 | 782 | 7628.2 | 767 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 15 | 1092 | 0.143761766 | 592 | 779 | 7595.9 | 766 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 16 | 1088 | 0.142926579 | 586 | 781 | 7612.3 | 767 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 17 | 1169 | 0.153213017 | 579 | 782 | 7629.9 | 766 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 18 | 1204 | 0.157266386 | 566 | 785 | 7655.8 | 763 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 19 | 1136 | 0.149402914 | 570 | 780 | 7603.6 | 767 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 20 | 1092 | 0.143472777 | 586 | 780 | 7611.2 | 767 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 21 | 1084 | 0.141662311 | 573 | 785 | 7652 | 766 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 22 | 1075 | 0.140732595 | 572 | 783 | 7638.6 | 764 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 23 | 930 | 0.128065658 | 501 | 745 | 7261.9 | 719 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 0 | 510 | 0.088339223 | 357 | 592 | 5773.2 | 547 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 1 | 271 | 0.058697394 | 267 | 473 | 4616.9 | 421 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 2 | 286 | 0.065443229 | 253 | 448 | 4370.2 | 391 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 3 | 431 | 0.096749573 | 267 | 457 | 4454.8 | 397 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 4 | 769 | 0.156453451 | 290 | 504 | 4915.2 | 451 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 5 | 975 | 0.166311301 | 381 | 601 | 5862.5 | 563 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 6 | 1610 | 0.215327003 | 545 | 767 | 7477 | 738 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 7 | 1157 | 0.15229295 | 645 | 779 | 7597.2 | 768 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 8 | 925 | 0.122367446 | 627 | 775 | 7559.2 | 766 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 9 | 987 | 0.130135541 | 637 | 778 | 7584.4 | 765 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 10 | 1127 | 0.148430092 | 668 | 779 | 7592.8 | 766 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 11 | 1208 | 0.157887858 | 734 | 785 | 7651 | 766 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 12 | 1154 | 0.150554468 | 728 | 786 | 7665 | 765 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 13 | 1058 | 0.138165198 | 727 | 785 | 7657.5 | 766 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 14 | 1031 | 0.135419129 | 730 | 781 | 7613.4 | 765 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 15 | 996 | 0.131351629 | 720 | 778 | 7582.7 | 765 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 16 | 1075 | 0.141661725 | 622 | 778 | 7588.5 | 765 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 17 | 1295 | 0.170291666 | 562 | 780 | 7604.6 | 764 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 18 | 1364 | 0.177191182 | 592 | 789 | 7697.9 | 766 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 19 | 1145 | 0.148799854 | 577 | 789 | 7694.9 | 768 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 20 | 959 | 0.124842157 | 599 | 788 | 7681.7 | 770 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 21 | 1074 | 0.139567523 | 607 | 789 | 7695.2 | 768 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 22 | 1107 | 0.161081443 | 481 | 705 | 6872.3 | 680 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 23 | 719 | 0.128943168 | 340 | 572 | 5576.1 | 524 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 0 | 402 | 0.097334205 | 247 | 423 | 4130.1 | 365 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 1 | 253 | 0.081429031 | 174 | 318 | 3107 | 259 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 2 | 169 | 0.059708875 | 181 | 290 | 2830.4 | 226 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 3 | 132 | 0.046816811 | 177 | 289 | 2819.5 | 226 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 4 | 132 | 0.046423296 | 184 | 291 | 2843.4 | 225 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 5 | 273 | 0.077181872 | 212 | 362 | 3537.1 | 305 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 6 | 846 | 0.174869261 | 295 | 496 | 4837.9 | 452 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 7 | 1918 | 0.301193467 | 420 | 653 | 6368 | 631 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 8 | 2154 | 0.30138098 | 536 | 733 | 7147.1 | 722 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 9 | 2005 | 0.267937085 | 576 | 767 | 7483.1 | 764 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 10 | 1557 | 0.207974354 | 583 | 768 | 7486.5 | 770 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 11 | 626 | 0.083956975 | 589 | 765 | 7456.2 | 769 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 12 | 585 | 0.078219013 | 643 | 767 | 7479 | 767 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 13 | 662 | 0.088054163 | 684 | 771 | 7518.1 | 768 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 14 | 759 | 0.099538373 | 678 | 782 | 7625.2 | 768 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 15 | 700 | 0.091976979 | 677 | 780 | 7610.6 | 769 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 16 | 676 | 0.089018818 | 668 | 779 | 7593.9 | 769 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 17 | 768 | 0.100763599 | 670 | 782 | 7621.8 | 768 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 18 | 866 | 0.113316672 | 687 | 784 | 7642.3 | 770 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 19 | 908 | 0.120355765 | 709 | 774 | 7544.3 | 769 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 20 | 841 | 0.111556216 | 708 | 773 | 7538.8 | 770 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 21 | 674 | 0.096059289 | 631 | 719 | 7016.5 | 714 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 22 | 412 | 0.072169283 | 485 | 585 | 5708.8 | 552 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 23 | 199 | 0.046899672 | 309 | 435 | 4243.1 | 392 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 0 | 98 | 0.032441737 | 178 | 309 | 3020.8 | 259 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 1 | 94 | 0.032907404 | 188 | 293 | 2856.5 | 235 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 2 | 100 | 0.03646973 | 189 | 281 | 2742 | 226 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 3 | 111 | 0.040162096 | 193 | 283 | 2763.8 | 226 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 4 | 110 | 0.039589707 | 194 | 285 | 2778.5 | 226 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 5 | 106 | 0.037238714 | 202 | 292 | 2846.5 | 231 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 6 | 262 | 0.068405525 | 256 | 393 | 3830.1 | 338 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 7 | 363 | 0.076742564 | 316 | 485 | 4730.1 | 442 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 8 | 314 | 0.065919301 | 304 | 488 | 4763.4 | 446 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 9 | 332 | 0.067188796 | 321 | 507 | 4941.3 | 462 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 10 | 493 | 0.08709478 | 379 | 580 | 5660.5 | 545 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 11 | 920 | 0.13141543 | 511 | 718 | 7000.7 | 705 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 12 | 1119 | 0.147349293 | 607 | 779 | 7594.2 | 767 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 13 | 1075 | 0.141725224 | 599 | 778 | 7585.1 | 768 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 14 | 1032 | 0.136435748 | 582 | 776 | 7564 | 766 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 15 | 1066 | 0.139328192 | 581 | 785 | 7651 | 768 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 16 | 1101 | 0.143501382 | 598 | 787 | 7672.4 | 766 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 17 | 1074 | 0.139652818 | 761 | 789 | 7690.5 | 769 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 18 | 1098 | 0.143510652 | 757 | 785 | 7651 | 766 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 19 | 1073 | 0.139646264 | 737 | 788 | 7683.7 | 768 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 20 | 1071 | 0.139653149 | 736 | 786 | 7669 | 768 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 21 | 1001 | 0.132367137 | 695 | 775 | 7562.3 | 755 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 22 | 682 | 0.109161918 | 524 | 641 | 6247.6 | 605 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 23 | 387 | 0.079895949 | 251 | 497 | 4843.8 | 442 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 0 | 344 | 0.072963285 | 264 | 483 | 4714.7 | 424 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 1 | 166 | 0.045954101 | 213 | 370 | 3612.3 | 314 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 2 | 126 | 0.041310121 | 192 | 312 | 3050.1 | 245 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 3 | 119 | 0.04156334 | 180 | 293 | 2863.1 | 226 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 4 | 106 | 0.037196898 | 185 | 292 | 2849.7 | 226 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 5 | 172 | 0.048694864 | 226 | 362 | 3532.2 | 299 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 6 | 939 | 0.162755226 | 357 | 591 | 5769.4 | 538 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 7 | 1013 | 0.134843725 | 570 | 770 | 7512.4 | 743 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 8 | 716 | 0.093143058 | 630 | 788 | 7687.1 | 768 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 9 | 733 | 0.096085782 | 617 | 782 | 7628.6 | 768 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 10 | 790 | 0.102706779 | 623 | 789 | 7691.8 | 766 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 11 | 630 | 0.081430067 | 618 | 793 | 7736.7 | 768 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 12 | 1076 | 0.138067314 | 615 | 799 | 7793.3 | 768 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 13 | 1081 | 0.14083773 | 621 | 787 | 7675.5 | 765 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 14 | 810 | 0.105148376 | 616 | 790 | 7703.4 | 767 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 15 | 876 | 0.113651107 | 616 | 790 | 7707.8 | 766 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 16 | 919 | 0.119208219 | 624 | 791 | 7709.2 | 767 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 17 | 881 | 0.115005548 | 620 | 786 | 7660.5 | 767 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 18 | 910 | 0.117449664 | 635 | 794 | 7748 | 767 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 19 | 956 | 0.124178422 | 623 | 789 | 7698.6 | 767 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 20 | 956 | 0.123847031 | 609 | 792 | 7719.2 | 767 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 21 | 942 | 0.121821897 | 610 | 793 | 7732.6 | 770 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 22 | 903 | 0.119773981 | 595 | 773 | 7539.2 | 754 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 23 | 676 | 0.106122449 | 445 | 653 | 6370 | 621 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 0 | 431 | 0.085226711 | 298 | 518 | 5057.1 | 474 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 1 | 238 | 0.060796485 | 227 | 401 | 3914.7 | 344 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 2 | 141 | 0.047780413 | 191 | 302 | 2951 | 238 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 3 | 153 | 0.053078925 | 198 | 295 | 2882.5 | 226 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 4 | 140 | 0.048274197 | 194 | 297 | 2900.1 | 230 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 5 | 200 | 0.058436815 | 225 | 351 | 3422.5 | 291 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 6 | 571 | 0.106900813 | 320 | 548 | 5341.4 | 503 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 7 | 657 | 0.104517976 | 421 | 644 | 6286 | 615 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 8 | 564 | 0.085025553 | 471 | 680 | 6633.3 | 657 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 9 | 635 | 0.083940303 | 582 | 776 | 7564.9 | 749 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 10 | 666 | 0.086358921 | 617 | 791 | 7712 | 767 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 11 | 783 | 0.101352663 | 594 | 792 | 7725.5 | 765 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 12 | 1178 | 0.152881783 | 585 | 790 | 7705.3 | 768 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 13 | 1185 | 0.153173998 | 603 | 793 | 7736.3 | 766 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 14 | 945 | 0.121792476 | 597 | 796 | 7759.1 | 767 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 15 | 943 | 0.121822034 | 596 | 794 | 7740.8 | 764 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 16 | 1033 | 0.133085971 | 621 | 796 | 7761.9 | 766 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 17 | 1029 | 0.133119445 | 602 | 793 | 7729.9 | 766 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 18 | 1035 | 0.134253434 | 601 | 791 | 7709.3 | 768 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 19 | 945 | 0.121828589 | 605 | 795 | 7756.8 | 769 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 20 | 952 | 0.122737352 | 612 | 795 | 7756.4 | 767 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 21 | 931 | 0.124675255 | 567 | 766 | 7467.4 | 735 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 22 | 665 | 0.104374304 | 426 | 653 | 6371.3 | 610 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 23 | 436 | 0.078139001 | 373 | 572 | 5579.8 | 516 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 0 | 329 | 0.066415003 | 322 | 508 | 4953.7 | 444 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 1 | 189 | 0.048674959 | 256 | 398 | 3882.9 | 336 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 2 | 127 | 0.04058675 | 203 | 321 | 3129.1 | 252 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 3 | 139 | 0.045337421 | 205 | 314 | 3065.9 | 252 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 4 | 139 | 0.04529753 | 208 | 314 | 3068.6 | 252 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 5 | 137 | 0.044835711 | 201 | 313 | 3055.6 | 252 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 6 | 180 | 0.058572777 | 212 | 315 | 3073.1 | 253 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 7 | 219 | 0.063646139 | 240 | 353 | 3440.9 | 293 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 8 | 527 | 0.100396251 | 330 | 538 | 5249.2 | 486 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 9 | 697 | 0.109044259 | 447 | 655 | 6391.9 | 618 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 10 | 820 | 0.113499522 | 549 | 741 | 7224.7 | 704 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 11 | 1006 | 0.12889669 | 647 | 800 | 7804.7 | 767 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 12 | 1048 | 0.134642068 | 646 | 798 | 7783.6 | 767 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 13 | 1066 | 0.137326892 | 613 | 796 | 7762.5 | 767 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 14 | 1099 | 0.142037377 | 611 | 793 | 7737.4 | 768 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 15 | 1101 | 0.142627665 | 609 | 792 | 7719.4 | 767 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 16 | 1088 | 0.140788571 | 595 | 792 | 7727.9 | 766 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 17 | 1013 | 0.131715816 | 584 | 789 | 7690.8 | 763 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 18 | 987 | 0.128221783 | 585 | 789 | 7697.6 | 765 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 19 | 1135 | 0.14814138 | 589 | 786 | 7661.6 | 764 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 20 | 1195 | 0.157878744 | 575 | 776 | 7569.1 | 753 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 21 | 774 | 0.126268394 | 410 | 628 | 6129.8 | 587 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 22 | 861 | 0.141672426 | 382 | 623 | 6077.4 | 574 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 23 | 758 | 0.139635989 | 352 | 557 | 5428.4 | 508 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 0 | 445 | 0.110367063 | 258 | 413 | 4032 | 360 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 1 | 313 | 0.101656382 | 194 | 315 | 3079 | 259 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 2 | 258 | 0.085495576 | 193 | 309 | 3017.7 | 252 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 3 | 254 | 0.083420914 | 191 | 312 | 3044.8 | 252 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 4 | 251 | 0.081610092 | 199 | 315 | 3075.6 | 252 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 5 | 239 | 0.079099785 | 202 | 310 | 3021.5 | 252 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 6 | 266 | 0.087147397 | 201 | 313 | 3052.3 | 252 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 7 | 252 | 0.082328727 | 205 | 314 | 3060.9 | 254 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 8 | 490 | 0.123310768 | 258 | 407 | 3973.7 | 352 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 9 | 1017 | 0.152022482 | 441 | 686 | 6689.8 | 654 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 10 | 1048 | 0.138247632 | 568 | 777 | 7580.6 | 765 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 11 | 995 | 0.131485054 | 582 | 776 | 7567.4 | 765 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 12 | 1101 | 0.144060922 | 596 | 784 | 7642.6 | 766 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 13 | 1156 | 0.150471852 | 606 | 788 | 7682.5 | 766 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 14 | 1099 | 0.142963069 | 599 | 788 | 7687.3 | 767 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 15 | 1084 | 0.141037484 | 614 | 788 | 7685.9 | 768 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 16 | 1059 | 0.136986301 | 610 | 793 | 7730.7 | 767 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 17 | 1058 | 0.137283143 | 601 | 790 | 7706.7 | 768 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 18 | 1076 | 0.14009687 | 591 | 788 | 7680.4 | 767 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 19 | 1144 | 0.149349208 | 589 | 785 | 7659.9 | 767 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 20 | 1150 | 0.151593045 | 584 | 778 | 7586.1 | 767 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 21 | 777 | 0.117689826 | 468 | 677 | 6602.1 | 653 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 22 | 688 | 0.11818869 | 390 | 597 | 5821.2 | 561 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 23 | 452 | 0.101379388 | 272 | 457 | 4458.5 | 414 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 0 | 209 | 0.064059339 | 205 | 334 | 3262.6 | 280 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 1 | 165 | 0.054190751 | 197 | 312 | 3044.8 | 252 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 2 | 149 | 0.049376988 | 196 | 309 | 3017.6 | 252 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 3 | 148 | 0.049453671 | 203 | 307 | 2992.7 | 252 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 4 | 163 | 0.054630157 | 199 | 306 | 2983.7 | 252 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 5 | 173 | 0.055391906 | 193 | 320 | 3123.2 | 267 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 6 | 424 | 0.099724816 | 246 | 436 | 4251.7 | 392 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 7 | 847 | 0.146524582 | 1121 | 593 | 5780.6 | 552 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 8 | 960 | 0.144254609 | 519 | 682 | 6654.9 | 650 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 9 | 908 | 0.132506385 | 513 | 703 | 6852.5 | 681 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 10 | 996 | 0.137641303 | 564 | 742 | 7236.2 | 725 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 11 | 1092 | 0.144762309 | 618 | 774 | 7543.4 | 769 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 12 | 1084 | 0.144417799 | 615 | 770 | 7506 | 768 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 13 | 1080 | 0.142911964 | 665 | 775 | 7557.1 | 768 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 14 | 1051 | 0.138854025 | 832 | 776 | 7569.1 | 769 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 15 | 1039 | 0.137205187 | 840 | 776 | 7572.6 | 770 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 16 | 1059 | 0.141122853 | 893 | 769 | 7504.1 | 768 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 17 | 1071 | 0.140978557 | 1147 | 779 | 7596.9 | 770 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 18 | 1109 | 0.14723063 | 587 | 772 | 7532.4 | 771 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 19 | 1133 | 0.150492788 | 926 | 772 | 7528.6 | 772 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 20 | 1131 | 0.149611091 | 483 | 775 | 7559.6 | 771 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 21 | 1003 | 0.136421751 | 536 | 754 | 7352.2 | 744 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 22 | 746 | 0.122220948 | 97 | 626 | 6103.7 | 608 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 23 | 768 | 0.135180328 | 380 | 582 | 5681.3 | 555 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 0 | 496 | 0.113821511 | 300 | 447 | 4357.7 | 419 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 1 | 213 | 0.069084069 | 148 | 316 | 3083.2 | 274 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 2 | 234 | 0.079086116 | 171 | 303 | 2958.8 | 252 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 3 | 217 | 0.072220188 | 204 | 308 | 3004.7 | 259 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 4 | 255 | 0.07717217 | 195 | 339 | 3304.3 | 291 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 5 | 504 | 0.124202174 | 418 | 416 | 4057.9 | 377 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 6 | 1663 | 0.240154808 | 623 | 710 | 6924.7 | 674 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 7 | 920 | 0.122410421 | 511 | 771 | 7515.7 | 767 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 8 | 826 | 0.110317195 | 643 | 768 | 7487.5 | 767 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 9 | 937 | 0.124211252 | 580 | 774 | 7543.6 | 768 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 10 | 1140 | 0.152288333 | 539 | 768 | 7485.8 | 767 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 11 | 1123 | 0.149386756 | 608 | 771 | 7517.4 | 767 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 12 | 1106 | 0.146963073 | 609 | 772 | 7525.7 | 766 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 13 | 1074 | 0.138748934 | 627 | 794 | 7740.6 | 766 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 14 | 965 | 0.133119974 | 558 | 743 | 7249.1 | 767 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 15 | 1030 | 0.136862526 | 602 | 772 | 7525.8 | 766 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 16 | 1140 | 0.152233425 | 606 | 768 | 7488.5 | 767 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 17 | 1271 | 0.170119927 | 620 | 766 | 7471.2 | 767 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 18 | 1373 | 0.184011258 | 552 | 765 | 7461.5 | 767 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 19 | 1211 | 0.1606463 | 588 | 773 | 7538.3 | 768 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 20 | 1152 | 0.152356769 | 589 | 775 | 7561.2 | 768 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 21 | 1066 | 0.142275609 | 779 | 768 | 7492.5 | 769 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 22 | 1122 | 0.148461793 | 680 | 775 | 7557.5 | 770 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 23 | 1158 | 0.154728023 | 651 | 767 | 7484.1 | 769 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 0 | 878 | 0.139422619 | 541 | 646 | 6297.4 | 635 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 1 | 547 | 0.105382807 | 456 | 532 | 5190.6 | 501 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 2 | 220 | 0.060768445 | 311 | 371 | 3620.3 | 327 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 3 | 156 | 0.0514444 | 188 | 311 | 3032.4 | 253 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 4 | 160 | 0.053024027 | 208 | 309 | 3017.5 | 253 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 5 | 145 | 0.047091683 | 218 | 315 | 3079.1 | 263 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 6 | 430 | 0.101806473 | 274 | 433 | 4223.7 | 377 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 7 | 958 | 0.166048463 | 380 | 591 | 5769.4 | 554 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 8 | 1127 | 0.153239513 | 536 | 754 | 7354.5 | 731 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 9 | 876 | 0.11712326 | 590 | 767 | 7479.3 | 752 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 10 | 964 | 0.127114733 | 674 | 778 | 7583.7 | 759 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 11 | 1105 | 0.144361413 | 719 | 785 | 7654.4 | 769 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 12 | 1087 | 0.141695127 | 514 | 787 | 7671.4 | 769 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 13 | 1013 | 0.131529403 | 639 | 790 | 7701.7 | 768 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 14 | 1089 | 0.141111529 | 679 | 791 | 7717.3 | 768 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 15 | 1128 | 0.146100742 | 687 | 792 | 7720.7 | 769 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 16 | 1089 | 0.140894271 | 610 | 793 | 7729.2 | 768 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 17 | 1076 | 0.137938107 | 585 | 800 | 7800.6 | 770 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 18 | 1041 | 0.13325994 | 593 | 801 | 7811.8 | 770 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 19 | 928 | 0.123519233 | 488 | 770 | 7513 | 737 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 20 | 704 | 0.111756675 | 233 | 646 | 6299.4 | 595 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 21 | 621 | 0.110742564 | 286 | 575 | 5607.6 | 501 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 22 | 559 | 0.107925475 | 424 | 531 | 5179.5 | 444 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 23 | 312 | 0.070901034 | 264 | 451 | 4400.5 | 359 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 0 | 388 | 0.086539534 | 399 | 460 | 4483.5 | 383 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 1 | 332 | 0.080360168 | 326 | 423 | 4131.4 | 361 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 2 | 352 | 0.086194231 | 322 | 419 | 4083.8 | 353 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 3 | 528 | 0.118234543 | 330 | 458 | 4465.7 | 393 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 4 | 496 | 0.102804319 | 332 | 495 | 4824.7 | 434 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 5 | 869 | 0.1422701 | 433 | 626 | 6108.1 | 581 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 6 | 789 | 0.126042366 | 438 | 642 | 6259.8 | 623 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 7 | 871 | 0.132290401 | 539 | 675 | 6584 | 643 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 8 | 1011 | 0.151968374 | 658 | 682 | 6652.7 | 655 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 9 | 837 | 0.125982119 | 624 | 681 | 6643.8 | 656 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 10 | 825 | 0.124421253 | 649 | 680 | 6630.7 | 656 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 11 | 978 | 0.147215992 | 657 | 681 | 6643.3 | 654 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 12 | 978 | 0.144360636 | 677 | 695 | 6774.7 | 651 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 13 | 857 | 0.12955992 | 628 | 678 | 6614.7 | 637 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 14 | 721 | 0.121659017 | 628 | 608 | 5926.4 | 558 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 15 | 638 | 0.125324114 | 560 | 522 | 5090.8 | 472 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 16 | 502 | 0.12419287 | 380 | 414 | 4042.1 | 357 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 17 | 419 | 0.099957059 | 360 | 430 | 4191.8 | 372 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 18 | 304 | 0.073705904 | 367 | 423 | 4124.5 | 366 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 19 | 305 | 0.075295628 | 360 | 415 | 4050.7 | 356 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 20 | 249 | 0.064650136 | 327 | 395 | 3851.5 | 329 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 21 | 157 | 0.050566864 | 267 | 318 | 3104.8 | 252 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 22 | 264 | 0.072062236 | 311 | 375 | 3663.5 | 312 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 23 | 282 | 0.072087732 | 297 | 401 | 3911.9 | 332 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 0 | 147 | 0.046529294 | 300 | 324 | 3159.3 | 258 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 1 | 162 | 0.052483235 | 277 | 316 | 3086.7 | 254 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 2 | 157 | 0.051205114 | 257 | 314 | 3066.1 | 253 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 3 | 209 | 0.061621016 | 271 | 348 | 3391.7 | 283 |

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|----|---------------|---|------|------------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 4 | 160 | 0.051611238 | 263 | 318 | 3100.1 | 253 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 5 | 285 | 0.079087579 | 302 | 369 | 3603.6 | 304 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 6 | 669 | 0.124019799 | 393 | 553 | 5394.3 | 494 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 7 | 717 | 0.109733701 | 477 | 670 | 6534 | 624 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 8 | 796 | 0.112201173 | 574 | 727 | 7094.4 | 726 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 9 | 861 | 0.113289474 | 646 | 779 | 7600 | 766 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 10 | 654 | 0.096015503 | 565 | 698 | 6811.4 | 680 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 11 | 461 | 0.082720258 | 462 | 571 | 5573 | 539 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 12 | 588 | 0.105947855 | 460 | 569 | 5549.9 | 538 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 13 | 645 | 0.11754629 | 444 | 563 | 5487.2 | 529 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 14 | 500 | 0.096298294 | 420 | 532 | 5192.2 | 496 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 15 | 357 | 0.073871749 | 401 | 495 | 4832.7 | 455 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 16 | 215 | 0.056607251 | 334 | 389 | 3798.1 | 346 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 17 | 437 | 0.09653192 | 366 | 464 | 4527 | 429 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 18 | 636 | 0.106290527 | 466 | 613 | 5983.6 | 587 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 19 | 600 | 0.098284928 | 464 | 626 | 6104.7 | 599 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 20 | 637 | 0.105561448 | 464 | 619 | 6034.4 | 589 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 21 | 634 | 0.116619148 | 440 | 557 | 5436.5 | 525 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 22 | 631 | 0.123266263 | 424 | 525 | 5119 | 481 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 23 | 254 | 0.069251322 | 322 | 376 | 3667.8 | 330 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 0 | 147 | 0.053998457 | 261 | 279 | 2722.3 | 227 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 1 | 164 | 0.060440775 | 263 | 278 | 2713.4 | 226 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 2 | 150 | 0.054680665 | 263 | 281 | 2743.2 | 226 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 3 | 154 | 0.055762755 | 259 | 283 | 2761.7 | 226 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 4 | 160 | 0.057755478 | 260 | 284 | 2770.3 | 225 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 5 | 235 | 0.082487978 | 279 | 292 | 2848.9 | 229 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 6 | 525 | 0.143827735 | 313 | 374 | 3650.2 | 321 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 7 | 429 | 0.10883905 | 315 | 404 | 3941.6 | 353 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 8 | 501 | 0.123905624 | 323 | 414 | 4043.4 | 379 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 9 | 707 | 0.148948721 | 341 | 487 | 4746.6 | 445 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 10 | 353 | 0.087415185 | 302 | 414 | 4038.2 | 378 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 11 | 232 | 0.074090633 | 272 | 321 | 3131.3 | 279 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 12 | 430 | 0.110676413 | 326 | 398 | 3885.2 | 357 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 13 | 428 | 0.099315466 | 323 | 442 | 4309.5 | 402 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 14 | 325 | 0.081744555 | 318 | 407 | 3975.8 | 366 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 15 | 360 | 0.091881269 | 321 | 402 | 3918.1 | 357 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 16 | 679 | 0.140005773 | 368 | 497 | 4849.8 | 463 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 17 | 977 | 0.166009651 | 423 | 603 | 5885.2 | 584 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 18 | 804 | 0.136250402 | 466 | 605 | 5900.9 | 591 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 19 | 805 | 0.133965718 | 480 | 616 | 6009 | 598 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 20 | 836 | 0.143758705 | 471 | 596 | 5815.3 | 579 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 21 | 543 | 0.111924147 | 417 | 497 | 4851.5 | 478 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 22 | 353 | 0.087717119 | 382 | 412 | 4024.3 | 379 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 23 | 197 | 0.060416475 | 296 | 334 | 3260.7 | 302 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 0 | 137 | 0.046290039 | 171 | 303 | 2959.6 | 240 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 1 | 90 | 0.032555616 | 157 | 283 | 2764.5 | 227 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 2 | 77 | 0.027853138 | 160 | 283 | 2764.5 | 227 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 3 | 76 | 0.027491409 | 163 | 283 | 2764.5 | 227 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 4 | 77 | 0.027853138 | 165 | 283 | 2764.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 5 | 74 | 0.026767951 | 165 | 283 | 2764.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 6 | 76 | 0.027491409 | 165 | 283 | 2764.5 | 227 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 7 | 98 | 0.032123775 | 189 | 313 | 3050.7 | 248 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 8 | 367 | 0.079395985 | 286 | 474 | 4622.4 | 418 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 9 | 1086 | 0.151099857 | 495 | 737 | 7187.3 | 690 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 10 | 929 | 0.123018658 | 543 | 774 | 7551.7 | 767 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 11 | 642 | 0.085137985 | 558 | 773 | 7540.7 | 769 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 12 | 696 | 0.092598752 | 563 | 771 | 7516.3 | 767 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 13 | 1100 | 0.146652979 | 555 | 769 | 7500.7 | 764 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 14 | 1111 | 0.146082337 | 540 | 780 | 7605.3 | 765 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 15 | 717 | 0.094231755 | 547 | 780 | 7608.9 | 766 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 16 | 729 | 0.095713254 | 556 | 781 | 7616.5 | 766 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 17 | 844 | 0.110361421 | 558 | 784 | 7647.6 | 766 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 18 | 865 | 0.113597563 | 548 | 781 | 7614.6 | 765 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 19 | 882 | 0.115623607 | 549 | 782 | 7628.2 | 767 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 20 | 839 | 0.114961428 | 510 | 748 | 7298.1 | 744 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 21 | 374 | 0.068102773 | 296 | 563 | 5491.7 | 546 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 22 | 155 | 0.038674585 | 204 | 411 | 4007.8 | 377 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 23 | 85 | 0.031219011 | 157 | 279 | 2722.7 | 236 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 0 | 93 | 0.034720926 | 160 | 274 | 2678.5 | 227 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 1 | 74 | 0.027762146 | 162 | 273 | 2665.5 | 227 |

| | | | | | | | | | | | |
|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 2 | 70 | 0.026312822 | 162 | 273 | 2660.3 | 227 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 3 | 71 | 0.026751064 | 164 | 272 | 2654.1 | 227 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 4 | 71 | 0.02681674 | 166 | 271 | 2647.6 | 227 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 5 | 69 | 0.025844633 | 178 | 273 | 2669.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 6 | 71 | 0.026889865 | 169 | 270 | 2640.4 | 227 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 7 | 85 | 0.029651852 | 183 | 294 | 2866.6 | 250 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 8 | 289 | 0.066430673 | 287 | 446 | 4350.4 | 415 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 9 | 805 | 0.122831378 | 471 | 672 | 6553.7 | 650 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 10 | 820 | 0.108359542 | 590 | 776 | 7567.4 | 764 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 11 | 688 | 0.090688601 | 606 | 778 | 7586.4 | 764 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 12 | 973 | 0.128267662 | 606 | 778 | 7585.7 | 767 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 13 | 960 | 0.126500547 | 599 | 778 | 7588.9 | 767 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 14 | 900 | 0.118282538 | 631 | 780 | 7608.9 | 767 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 15 | 920 | 0.121258452 | 576 | 778 | 7587.1 | 765 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 16 | 823 | 0.108315127 | 592 | 779 | 7598.2 | 765 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 17 | 913 | 0.119223286 | 597 | 785 | 7657.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 18 | 863 | 0.113589997 | 592 | 779 | 7597.5 | 766 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 19 | 879 | 0.11538613 | 594 | 781 | 7617.9 | 764 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 20 | 861 | 0.112959513 | 594 | 782 | 7622.2 | 766 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 21 | 684 | 0.097204656 | 499 | 722 | 7036.7 | 709 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 22 | 376 | 0.07375586 | 295 | 523 | 5097.9 | 495 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 23 | 128 | 0.039551339 | 184 | 332 | 3236.3 | 296 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 0 | 104 | 0.037981156 | 161 | 280 | 2738.2 | 233 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 1 | 86 | 0.032163961 | 165 | 274 | 2673.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 2 | 75 | 0.028234763 | 164 | 272 | 2656.3 | 226 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 3 | 72 | 0.027066652 | 167 | 272 | 2660.1 | 227 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 4 | 67 | 0.025216409 | 175 | 272 | 2657 | 226 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 5 | 80 | 0.027367269 | 178 | 299 | 2923.2 | 252 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 6 | 84 | 0.028388928 | 165 | 303 | 2958.9 | 255 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 7 | 171 | 0.046268737 | 229 | 379 | 3695.8 | 333 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 8 | 411 | 0.079858547 | 324 | 528 | 5146.6 | 494 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 9 | 1127 | 0.152038421 | 563 | 760 | 7412.6 | 731 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 10 | 742 | 0.096653597 | 606 | 787 | 7676.9 | 769 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 11 | 867 | 0.112989196 | 621 | 787 | 7673.3 | 767 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 12 | 922 | 0.119794712 | 592 | 789 | 7696.5 | 767 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 13 | 918 | 0.119161972 | 639 | 790 | 7703.8 | 768 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 14 | 868 | 0.113590264 | 603 | 784 | 7641.5 | 767 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 15 | 839 | 0.108729459 | 601 | 791 | 7716.4 | 767 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 16 | 904 | 0.118273521 | 603 | 784 | 7643.3 | 767 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 17 | 870 | 0.112841931 | 609 | 791 | 7709.9 | 766 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 18 | 885 | 0.115148913 | 607 | 788 | 7685.7 | 766 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 19 | 923 | 0.120353105 | 605 | 786 | 7669.1 | 766 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 20 | 759 | 0.104546895 | 544 | 744 | 7259.9 | 727 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 21 | 741 | 0.114031578 | 480 | 666 | 6498.2 | 640 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 22 | 917 | 0.15139758 | 369 | 621 | 6056.9 | 594 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 23 | 197 | 0.051786231 | 216 | 390 | 3804.1 | 358 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 0 | 113 | 0.04145724 | 182 | 279 | 2725.7 | 229 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 1 | 104 | 0.038521372 | 183 | 277 | 2699.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 2 | 86 | 0.031957192 | 185 | 276 | 2691.1 | 227 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 3 | 90 | 0.033549541 | 187 | 275 | 2682.6 | 227 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 4 | 92 | 0.034295087 | 193 | 275 | 2682.6 | 226 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 5 | 161 | 0.050643264 | 384 | 326 | 3179.1 | 278 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 6 | 120 | 0.040064103 | 92 | 307 | 2995.2 | 260 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 7 | 177 | 0.05374222 | 144 | 337 | 3293.5 | 295 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 8 | 477 | 0.100971614 | 429 | 484 | 4724.1 | 457 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 9 | 1390 | 0.196308275 | 729 | 726 | 7080.7 | 706 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 10 | 773 | 0.102654679 | 602 | 772 | 7530.1 | 765 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 11 | 897 | 0.118040294 | 607 | 779 | 7599.1 | 764 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 12 | 931 | 0.121817183 | 611 | 784 | 7642.6 | 766 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 13 | 901 | 0.117760845 | 596 | 785 | 7651.1 | 765 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 14 | 854 | 0.112200121 | 593 | 780 | 7611.4 | 764 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 15 | 870 | 0.113895216 | 580 | 783 | 7638.6 | 763 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 16 | 968 | 0.127075812 | 594 | 781 | 7617.5 | 765 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 17 | 1077 | 0.141158892 | 595 | 782 | 7629.7 | 765 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 18 | 1047 | 0.137097513 | 595 | 783 | 7636.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 19 | 848 | 0.114821134 | 524 | 757 | 7385.4 | 739 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 20 | 532 | 0.084561219 | 377 | 645 | 6291.3 | 621 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 21 | 382 | 0.0726664 | 299 | 539 | 5256.9 | 517 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 22 | 187 | 0.049263679 | 182 | 389 | 3795.9 | 358 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 23 | 98 | 0.037289296 | 162 | 269 | 2628.1 | 225 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 0 | 90 | 0.033898305 | 175 | 272 | 2655 | 227 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 1 | 74 | 0.027919261 | 169 | 271 | 2650.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 2 | 79 | 0.029625741 | 178 | 273 | 2666.6 | 226 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 3 | 75 | 0.028350028 | 174 | 271 | 2645.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 4 | 69 | 0.026094849 | 177 | 271 | 2644.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 5 | 75 | 0.028219889 | 178 | 272 | 2657.7 | 226 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 6 | 83 | 0.031440585 | 182 | 270 | 2639.9 | 226 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 7 | 101 | 0.034203664 | 186 | 303 | 2952.9 | 260 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 8 | 354 | 0.075531279 | 281 | 480 | 4686.8 | 451 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 9 | 1008 | 0.153471376 | 394 | 673 | 6568 | 649 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 10 | 732 | 0.101407514 | 526 | 740 | 7218.4 | 723 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 11 | 943 | 0.123513386 | 580 | 783 | 7634.8 | 764 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 12 | 947 | 0.124050301 | 587 | 783 | 7634 | 765 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 13 | 816 | 0.107692917 | 591 | 777 | 7577.1 | 766 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 14 | 910 | 0.119991034 | 591 | 778 | 7583.9 | 766 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 15 | 884 | 0.116551961 | 576 | 778 | 7584.6 | 765 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 16 | 1014 | 0.133464956 | 577 | 779 | 7597.5 | 763 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 17 | 1439 | 0.190115073 | 582 | 776 | 7569.1 | 763 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 18 | 1216 | 0.15988009 | 570 | 780 | 7605.7 | 764 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 19 | 1044 | 0.137265472 | 555 | 780 | 7605.7 | 764 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 20 | 858 | 0.117394338 | 497 | 749 | 7308.7 | 737 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 21 | 691 | 0.103986396 | 412 | 681 | 6645.1 | 664 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 22 | 1026 | 0.160724356 | 376 | 655 | 6383.6 | 639 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 23 | 439 | 0.093982146 | 247 | 479 | 4671.1 | 456 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 0 | 153 | 0.054109492 | 99 | 290 | 2827.6 | 252 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 1 | 164 | 0.062107097 | 87 | 270 | 2640.6 | 226 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 2 | 146 | 0.054930584 | 82 | 272 | 2657.9 | 227 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 3 | 152 | 0.057188006 | 260 | 272 | 2657.9 | 226 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 4 | 140 | 0.052412864 | 181 | 274 | 2671.1 | 226 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 5 | 300 | 0.08548957 | 235 | 360 | 3509.2 | 317 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 6 | 304 | 0.077832966 | 226 | 400 | 3905.8 | 361 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 7 | 604 | 0.114658871 | 321 | 540 | 5267.8 | 504 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 8 | 1240 | 0.169438258 | 512 | 750 | 7318.3 | 727 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 9 | 814 | 0.106908327 | 601 | 781 | 7614 | 765 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 10 | 975 | 0.127676291 | 588 | 783 | 7636.5 | 766 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 11 | 1176 | 0.155224984 | 583 | 777 | 7576.1 | 764 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 12 | 1175 | 0.154619504 | 569 | 779 | 7599.3 | 765 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 13 | 1076 | 0.141413345 | 563 | 780 | 7608.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 14 | 766 | 0.101525534 | 558 | 774 | 7544.9 | 763 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 15 | 815 | 0.108318603 | 579 | 772 | 7524.1 | 765 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 16 | 742 | 0.098322423 | 566 | 774 | 7546.6 | 766 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 17 | 735 | 0.096860916 | 561 | 778 | 7588.2 | 766 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 18 | 705 | 0.102104364 | 462 | 708 | 6904.7 | 700 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 19 | 739 | 0.113183851 | 404 | 669 | 6529.2 | 658 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 20 | 600 | 0.106909946 | 342 | 575 | 5612.2 | 560 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 21 | 439 | 0.087919571 | 289 | 512 | 4993.2 | 498 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 22 | 115 | 0.029151563 | 220 | 404 | 3944.9 | 374 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 23 | 80 | 0.02471806 | 181 | 332 | 3236.5 | 297 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 0 | 63 | 0.022204991 | 170 | 291 | 2837.2 | 250 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 1 | 53 | 0.020390105 | 161 | 266 | 2599.3 | 226 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 2 | 55 | 0.020894275 | 160 | 270 | 2632.3 | 226 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 3 | 71 | 0.027009548 | 163 | 269 | 2628.7 | 226 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 4 | 82 | 0.031266682 | 165 | 269 | 2622.6 | 226 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 5 | 82 | 0.030996031 | 169 | 271 | 2645.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 6 | 95 | 0.036161547 | 168 | 269 | 2627.1 | 226 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 7 | 163 | 0.053738626 | 209 | 311 | 3033.2 | 270 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 8 | 368 | 0.073545576 | 320 | 513 | 5003.7 | 484 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 9 | 687 | 0.096065106 | 507 | 733 | 7151.4 | 709 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 10 | 738 | 0.096599387 | 565 | 783 | 7639.8 | 763 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 11 | 798 | 0.104877183 | 570 | 780 | 7608.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 12 | 816 | 0.107505632 | 561 | 778 | 7590.3 | 765 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 13 | 737 | 0.096519029 | 565 | 783 | 7635.8 | 765 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 14 | 895 | 0.117471026 | 556 | 781 | 7618.9 | 766 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 15 | 729 | 0.09599684 | 539 | 779 | 7594 | 764 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 16 | 817 | 0.106949772 | 550 | 783 | 7639.1 | 765 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 17 | 898 | 0.11825748 | 539 | 779 | 7593.6 | 764 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 18 | 881 | 0.115169421 | 535 | 784 | 7649.6 | 764 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 19 | 871 | 0.113658607 | 528 | 786 | 7663.3 | 763 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 20 | 899 | 0.117395108 | 513 | 785 | 7657.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 21 | 824 | 0.112784013 | 467 | 749 | 7306 | 735 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 22 | 543 | 0.093292557 | 325 | 597 | 5820.4 | 578 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 23 | 392 | 0.094099573 | 233 | 427 | 4165.8 | 406 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 0 | 247 | 0.087303831 | 169 | 290 | 2829.2 | 251 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 1 | 230 | 0.085223062 | 164 | 276 | 2698.8 | 227 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 2 | 117 | 0.044074437 | 159 | 272 | 2654.6 | 227 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 3 | 93 | 0.035357184 | 160 | 269 | 2630.3 | 226 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 4 | 109 | 0.041256624 | 166 | 271 | 2642 | 226 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 5 | 98 | 0.037304911 | 160 | 269 | 2627 | 226 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 6 | 101 | 0.03872254 | 156 | 267 | 2608.3 | 226 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 7 | 166 | 0.052787229 | 204 | 322 | 3144.7 | 282 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 8 | 454 | 0.085077676 | 330 | 547 | 5336.3 | 521 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 9 | 989 | 0.13472646 | 528 | 753 | 7340.8 | 734 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 10 | 837 | 0.11026651 | 561 | 778 | 7590.7 | 765 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 11 | 696 | 0.091291858 | 579 | 782 | 7623.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 12 | 771 | 0.101318055 | 563 | 780 | 7609.7 | 766 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 13 | 908 | 0.11918826 | 594 | 781 | 7618.2 | 765 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 14 | 896 | 0.117701149 | 563 | 781 | 7612.5 | 766 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 15 | 913 | 0.119787977 | 571 | 782 | 7621.8 | 766 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 16 | 969 | 0.127028657 | 556 | 782 | 7628.2 | 763 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 17 | 1008 | 0.132035681 | 557 | 783 | 7634.3 | 765 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 18 | 919 | 0.120568865 | 564 | 782 | 7622.2 | 765 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 19 | 906 | 0.118634524 | 549 | 783 | 7636.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 20 | 937 | 0.122919099 | 564 | 782 | 7622.9 | 766 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 21 | 943 | 0.123881715 | 563 | 781 | 7612.1 | 765 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 22 | 705 | 0.10176097 | 457 | 710 | 6928 | 697 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 23 | 315 | 0.061350888 | 272 | 526 | 5134.4 | 510 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 0 | 209 | 0.055493601 | 210 | 386 | 3766.2 | 352 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 1 | 286 | 0.07635422 | 202 | 384 | 3745.7 | 351 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 2 | 242 | 0.064804649 | 186 | 383 | 3734.3 | 348 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 3 | 129 | 0.043253755 | 116 | 306 | 2982.4 | 267 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 4 | 113 | 0.041440516 | 81 | 279 | 2726.8 | 236 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 5 | 156 | 0.050395736 | 83 | 317 | 3095.5 | 275 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 6 | 195 | 0.0661129 | 73 | 302 | 2949.5 | 256 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 7 | 174 | 0.049056923 | 102 | 363 | 3546.9 | 321 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 8 | 313 | 0.066137007 | 288 | 485 | 4732.6 | 462 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 9 | 825 | 0.118614582 | 396 | 713 | 6955.3 | 696 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 10 | 817 | 0.106886807 | 558 | 784 | 7643.6 | 764 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 11 | 707 | 0.091663425 | 578 | 791 | 7713 | 766 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 12 | 778 | 0.107989562 | 540 | 739 | 7204.4 | 765 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 13 | 916 | 0.124366964 | 537 | 755 | 7365.3 | 765 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 14 | 890 | 0.121846036 | 540 | 749 | 7304.3 | 764 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 15 | 840 | 0.114859229 | 541 | 750 | 7313.3 | 764 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 16 | 873 | 0.116226435 | 555 | 770 | 7511.2 | 764 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 17 | 940 | 0.122587376 | 567 | 786 | 7668 | 764 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 18 | 935 | 0.122136009 | 566 | 785 | 7655.4 | 765 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 19 | 851 | 0.111860352 | 555 | 780 | 7607.7 | 764 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 20 | 869 | 0.113950774 | 556 | 782 | 7626.1 | 765 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 21 | 786 | 0.10952872 | 480 | 736 | 7176.2 | 726 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 22 | 643 | 0.105085965 | 361 | 627 | 6118.8 | 610 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 23 | 537 | 0.108636281 | 276 | 507 | 4943.1 | 490 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 0 | 363 | 0.098845442 | 150 | 376 | 3672.4 | 348 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 1 | 128 | 0.047218533 | 70 | 278 | 2710.8 | 241 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 2 | 103 | 0.039442445 | 70 | 267 | 2611.4 | 227 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 3 | 103 | 0.039469651 | 67 | 267 | 2609.6 | 227 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 4 | 117 | 0.042303938 | 160 | 283 | 2765.7 | 244 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 5 | 167 | 0.052826369 | 221 | 324 | 3161.3 | 288 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 6 | 253 | 0.067057171 | 215 | 387 | 3772.9 | 352 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 7 | 312 | 0.072304234 | 254 | 442 | 4315.1 | 410 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 8 | 666 | 0.108821751 | 391 | 627 | 6120.1 | 607 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 9 | 1041 | 0.138770396 | 540 | 769 | 7501.6 | 753 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 10 | 965 | 0.127327185 | 568 | 777 | 7578.9 | 767 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 11 | 910 | 0.120025852 | 568 | 777 | 7581.7 | 767 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 12 | 948 | 0.125274203 | 575 | 776 | 7567.4 | 767 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 13 | 988 | 0.130591097 | 567 | 776 | 7565.6 | 766 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 14 | 1039 | 0.137033276 | 568 | 777 | 7582.1 | 764 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 15 | 985 | 0.129100751 | 572 | 782 | 7629.7 | 764 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 16 | 962 | 0.125842109 | 573 | 784 | 7644.5 | 765 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 17 | 972 | 0.128238957 | 568 | 777 | 7579.6 | 766 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 18 | 914 | 0.119461508 | 573 | 785 | 7651 | 767 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 19 | 855 | 0.112670488 | 561 | 778 | 7588.5 | 767 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 20 | 846 | 0.110417917 | 559 | 786 | 7661.8 | 768 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 21 | 635 | 0.090987247 | 467 | 716 | 6979 | 703 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 22 | 300 | 0.059665871 | 261 | 515 | 5028 | 491 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 23 | 124 | 0.04087418 | 154 | 311 | 3033.7 | 276 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 0 | 107 | 0.040304354 | 151 | 272 | 2654.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 1 | 112 | 0.042163912 | 151 | 272 | 2656.3 | 226 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 2 | 108 | 0.040844112 | 150 | 271 | 2644.2 | 227 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 3 | 79 | 0.029791085 | 153 | 272 | 2651.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 4 | 100 | 0.034054146 | 179 | 301 | 2936.5 | 257 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 5 | 225 | 0.060682885 | 226 | 380 | 3707.8 | 340 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 6 | 422 | 0.095199422 | 257 | 454 | 4432.8 | 424 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 7 | 836 | 0.15668341 | 314 | 547 | 5335.6 | 516 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 8 | 1530 | 0.219729718 | 445 | 714 | 6963.1 | 696 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 9 | 1174 | 0.154575379 | 562 | 779 | 7595 | 762 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 10 | 608 | 0.079681275 | 557 | 782 | 7630.4 | 768 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 11 | 534 | 0.069933733 | 565 | 783 | 7635.8 | 766 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 12 | 775 | 0.10183567 | 570 | 780 | 7610.3 | 765 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 13 | 870 | 0.114442062 | 555 | 780 | 7602.1 | 765 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 14 | 805 | 0.106679035 | 558 | 774 | 7546 | 766 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 15 | 794 | 0.105578087 | 549 | 771 | 7520.5 | 765 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 16 | 1039 | 0.137154474 | 568 | 777 | 7575.4 | 766 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 17 | 954 | 0.126015455 | 552 | 776 | 7570.5 | 766 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 18 | 867 | 0.115018772 | 550 | 773 | 7537.9 | 769 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 19 | 910 | 0.119405335 | 548 | 781 | 7621.1 | 768 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 20 | 989 | 0.129655606 | 549 | 782 | 7627.9 | 768 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 21 | 684 | 0.101280817 | 425 | 692 | 6753.5 | 685 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 22 | 316 | 0.061230817 | 268 | 529 | 5160.8 | 507 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 23 | 169 | 0.045245235 | 186 | 383 | 3735.2 | 355 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 0 | 102 | 0.037479331 | 144 | 279 | 2721.5 | 235 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 1 | 124 | 0.047108882 | 144 | 270 | 2632.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 2 | 127 | 0.048222965 | 144 | 270 | 2633.6 | 227 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 3 | 99 | 0.037341581 | 143 | 272 | 2651.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 4 | 118 | 0.041983918 | 154 | 288 | 2810.6 | 245 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 5 | 233 | 0.061270643 | 224 | 390 | 3802.8 | 351 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 6 | 261 | 0.060411073 | 241 | 443 | 4320.4 | 408 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 7 | 283 | 0.054621605 | 290 | 531 | 5181.1 | 503 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 8 | 621 | 0.087426617 | 475 | 728 | 7103.1 | 713 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 9 | 917 | 0.120902882 | 553 | 778 | 7584.6 | 769 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 10 | 774 | 0.10203409 | 568 | 778 | 7585.7 | 770 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 11 | 759 | 0.100464599 | 544 | 775 | 7554.9 | 769 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 12 | 800 | 0.106165565 | 550 | 773 | 7535.4 | 767 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 13 | 847 | 0.112350608 | 550 | 773 | 7538.9 | 768 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 14 | 915 | 0.120983737 | 552 | 776 | 7563 | 767 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 15 | 919 | 0.121488532 | 544 | 776 | 7564.5 | 766 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 16 | 849 | 0.112089566 | 552 | 777 | 7574.3 | 768 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 17 | 767 | 0.101433559 | 552 | 775 | 7561.6 | 768 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 18 | 747 | 0.099104478 | 550 | 773 | 7537.5 | 767 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 19 | 730 | 0.094829826 | 554 | 789 | 7698 | 768 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 20 | 680 | 0.09047486 | 526 | 771 | 7515.9 | 755 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 21 | 440 | 0.069680893 | 385 | 647 | 6314.5 | 634 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 22 | 180 | 0.035736266 | 256 | 516 | 5036.9 | 495 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 23 | 57 | 0.016669104 | 167 | 350 | 3419.5 | 318 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 0 | 40 | 0.014953271 | 133 | 274 | 2675 | 230 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 1 | 51 | 0.019511075 | 130 | 268 | 2613.9 | 226 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 2 | 54 | 0.020746091 | 135 | 267 | 2602.9 | 225 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 3 | 71 | 0.027237503 | 143 | 267 | 2606.7 | 225 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 4 | 77 | 0.02797152 | 159 | 282 | 2752.8 | 238 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 5 | 151 | 0.04563588 | 205 | 339 | 3308.8 | 296 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 6 | 128 | 0.043288579 | 159 | 303 | 2956.9 | 261 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 7 | 189 | 0.049532196 | 244 | 391 | 3815.7 | 358 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 8 | 395 | 0.063297225 | 418 | 640 | 6240.4 | 615 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 9 | 557 | 0.07415494 | 615 | 770 | 7511.3 | 759 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 10 | 602 | 0.079833437 | 580 | 773 | 7540.7 | 762 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 11 | 1478 | 0.195185082 | 605 | 776 | 7572.3 | 766 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 12 | 1229 | 0.163790231 | 607 | 769 | 7503.5 | 766 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 13 | 1074 | 0.142775481 | 564 | 771 | 7522.3 | 764 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 14 | 1214 | 0.160291535 | 560 | 777 | 7573.7 | 765 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 15 | 781 | 0.103226318 | 544 | 776 | 7565.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 16 | 508 | 0.06685882 | 539 | 779 | 7598.1 | 764 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 17 | 711 | 0.093659847 | 546 | 778 | 7591.3 | 764 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 18 | 992 | 0.131269022 | 559 | 775 | 7557 | 765 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 19 | 1035 | 0.136906573 | 559 | 775 | 7559.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 20 | 888 | 0.122484448 | 478 | 743 | 7249.9 | 729 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 21 | 485 | 0.085837669 | 305 | 579 | 5650.2 | 560 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 22 | 251 | 0.057506816 | 218 | 447 | 4364.7 | 419 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 23 | 114 | 0.036803874 | 154 | 317 | 3097.5 | 280 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 0 | 115 | 0.039963859 | 152 | 295 | 2877.6 | 251 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 1 | 126 | 0.044062107 | 151 | 293 | 2859.6 | 251 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 2 | 110 | 0.040306328 | 152 | 280 | 2729.1 | 236 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 3 | 90 | 0.034404985 | 143 | 268 | 2615.9 | 225 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 4 | 84 | 0.031992687 | 144 | 269 | 2625.6 | 225 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 5 | 93 | 0.035500248 | 149 | 268 | 2619.7 | 226 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 6 | 98 | 0.038061209 | 151 | 264 | 2574.8 | 225 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 7 | 131 | 0.044131519 | 181 | 304 | 2968.4 | 266 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 8 | 231 | 0.05708355 | 242 | 415 | 4046.7 | 388 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 9 | 807 | 0.116812622 | 490 | 708 | 6908.5 | 690 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 10 | 807 | 0.107064677 | 557 | 773 | 7537.5 | 763 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 11 | 740 | 0.097839596 | 582 | 776 | 7563.4 | 766 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 12 | 774 | 0.102913215 | 564 | 771 | 7520.9 | 766 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 13 | 939 | 0.125034954 | 555 | 770 | 7509.9 | 763 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 14 | 980 | 0.128644377 | 556 | 781 | 7617.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 15 | 899 | 0.118253686 | 555 | 780 | 7602.3 | 763 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 16 | 819 | 0.107589034 | 540 | 781 | 7612.3 | 764 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 17 | 850 | 0.112115017 | 545 | 777 | 7581.5 | 765 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 18 | 892 | 0.117682758 | 538 | 777 | 7579.7 | 765 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 19 | 976 | 0.128608889 | 546 | 778 | 7588.9 | 764 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 20 | 933 | 0.122463445 | 548 | 781 | 7618.6 | 765 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 21 | 691 | 0.099200368 | 452 | 714 | 6965.7 | 701 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 22 | 520 | 0.09146556 | 307 | 583 | 5685.2 | 562 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 23 | 249 | 0.061752889 | 201 | 413 | 4032.2 | 387 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 0 | 210 | 0.062003602 | 172 | 347 | 3386.9 | 312 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 1 | 147 | 0.055679709 | 142 | 270 | 2640.1 | 227 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 2 | 128 | 0.048530806 | 145 | 270 | 2637.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 3 | 113 | 0.042939656 | 147 | 270 | 2631.6 | 226 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 4 | 116 | 0.044016089 | 150 | 270 | 2635.4 | 225 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 5 | 142 | 0.053885853 | 152 | 270 | 2635.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 6 | 133 | 0.050647372 | 144 | 269 | 2626 | 225 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 7 | 210 | 0.0671871 | 187 | 320 | 3125.6 | 279 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 8 | 595 | 0.116470266 | 327 | 524 | 5108.6 | 499 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 9 | 1175 | 0.154373703 | 540 | 780 | 7611.4 | 758 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 10 | 804 | 0.104288271 | 562 | 791 | 7709.4 | 769 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 11 | 710 | 0.092201805 | 577 | 790 | 7700.5 | 771 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 12 | 819 | 0.1065255 | 553 | 788 | 7688.3 | 770 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 13 | 1091 | 0.141673592 | 585 | 790 | 7700.8 | 770 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 14 | 1094 | 0.142048406 | 539 | 790 | 7701.6 | 773 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 15 | 685 | 0.088658219 | 571 | 792 | 7726.3 | 772 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 16 | 407 | 0.052434939 | 558 | 796 | 7762 | 768 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 17 | 269 | 0.040847316 | 441 | 675 | 6585.5 | 659 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 18 | 589 | 0.087183055 | 432 | 693 | 6755.9 | 673 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 19 | 785 | 0.12040616 | 391 | 668 | 6519.6 | 648 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 20 | 473 | 0.088052422 | 236 | 551 | 5371.8 | 528 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 21 | 225 | 0.053038518 | 195 | 435 | 4242.2 | 399 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 22 | 129 | 0.046895449 | 167 | 282 | 2750.8 | 267 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 23 | 114 | 0.043594646 | 162 | 268 | 2615 | 225 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 0 | 91 | 0.035237173 | 157 | 265 | 2582.5 | 225 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 1 | 75 | 0.029063009 | 162 | 264 | 2580.6 | 225 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 2 | 63 | 0.024004572 | 157 | 269 | 2624.5 | 225 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 3 | 61 | 0.023274448 | 157 | 268 | 2620.9 | 225 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 4 | 60 | 0.021879444 | 172 | 281 | 2742.3 | 234 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 5 | 72 | 0.024558292 | 173 | 300 | 2931.8 | 256 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 6 | 80 | 0.02799748 | 171 | 293 | 2857.4 | 252 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 7 | 131 | 0.039307468 | 203 | 341 | 3332.7 | 298 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 8 | 179 | 0.050633628 | 219 | 362 | 3535.2 | 335 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 9 | 586 | 0.096650228 | 394 | 622 | 6063.1 | 607 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 10 | 795 | 0.106685633 | 566 | 764 | 7451.8 | 758 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 11 | 528 | 0.070194097 | 579 | 771 | 7522 | 764 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 12 | 406 | 0.054160052 | 577 | 769 | 7496.3 | 765 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 13 | 304 | 0.040358983 | 557 | 772 | 7532.4 | 762 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 14 | 441 | 0.057677217 | 558 | 784 | 7646 | 763 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 15 | 1282 | 0.169281149 | 552 | 777 | 7573.2 | 762 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 16 | 905 | 0.120307349 | 541 | 771 | 7522.4 | 762 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 17 | 737 | 0.098114916 | 540 | 770 | 7511.6 | 762 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 18 | 812 | 0.107206042 | 560 | 777 | 7574.2 | 762 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 19 | 975 | 0.128538093 | 568 | 778 | 7585.3 | 765 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 20 | 911 | 0.123800723 | 522 | 755 | 7358.6 | 742 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 21 | 536 | 0.091328869 | 346 | 602 | 5868.9 | 592 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 22 | 381 | 0.079613842 | 248 | 491 | 4785.6 | 466 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 23 | 190 | 0.062436331 | 161 | 312 | 3043.1 | 278 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 0 | 170 | 0.065279164 | 151 | 267 | 2604.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 1 | 157 | 0.059623272 | 155 | 270 | 2633.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 2 | 133 | 0.050676319 | 154 | 269 | 2624.5 | 225 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 3 | 124 | 0.048200264 | 159 | 263 | 2572.6 | 226 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 4 | 181 | 0.064129819 | 172 | 289 | 2822.4 | 248 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 5 | 197 | 0.06885223 | 165 | 293 | 2861.2 | 256 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 6 | 176 | 0.061841181 | 167 | 292 | 2846 | 252 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 7 | 210 | 0.067225815 | 196 | 320 | 3123.8 | 307 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 8 | 1142 | 0.206274949 | 370 | 568 | 5536.3 | 538 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 9 | 1364 | 0.188702738 | 527 | 741 | 7228.3 | 731 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 10 | 950 | 0.126876436 | 569 | 768 | 7487.6 | 763 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 11 | 943 | 0.126007189 | 546 | 767 | 7483.7 | 765 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 12 | 1149 | 0.154044162 | 544 | 765 | 7458.9 | 763 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 13 | 1379 | 0.182702244 | 551 | 774 | 7547.8 | 764 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 14 | 913 | 0.120278762 | 561 | 778 | 7590.7 | 764 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 15 | 398 | 0.053501815 | 565 | 763 | 7439 | 763 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 16 | 319 | 0.042993652 | 578 | 761 | 7419.7 | 763 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 17 | 440 | 0.058870752 | 568 | 766 | 7474 | 765 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 18 | 779 | 0.104429192 | 611 | 765 | 7459.6 | 766 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 19 | 604 | 0.080942362 | 746 | 765 | 7462.1 | 766 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 20 | 256 | 0.040091459 | 370 | 655 | 6385.4 | 656 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 21 | 149 | 0.030033057 | 153 | 509 | 4961.2 | 501 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 22 | 110 | 0.027561324 | 271 | 409 | 3991.1 | 390 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 23 | 64 | 0.024248854 | 137 | 270 | 2639.3 | 239 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 0 | 67 | 0.026118821 | 143 | 263 | 2565.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 1 | 72 | 0.028171218 | 145 | 262 | 2555.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 2 | 58 | 0.022701476 | 145 | 262 | 2554.9 | 225 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 3 | 55 | 0.021512105 | 153 | 262 | 2556.7 | 225 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 4 | 83 | 0.028281314 | 182 | 301 | 2934.8 | 267 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 5 | 367 | 0.064681001 | 368 | 582 | 5674 | 562 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 6 | 529 | 0.071330331 | 556 | 760 | 7416.2 | 760 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 7 | 461 | 0.062647786 | 559 | 755 | 7358.6 | 764 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 8 | 525 | 0.07079479 | 556 | 760 | 7415.8 | 764 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 9 | 652 | 0.088149801 | 532 | 758 | 7396.5 | 763 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 10 | 812 | 0.109242567 | 557 | 762 | 7433 | 764 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 11 | 786 | 0.10469391 | 585 | 770 | 7507.6 | 768 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 12 | 615 | 0.082022966 | 577 | 769 | 7497.9 | 768 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 13 | 412 | 0.055052246 | 583 | 767 | 7483.8 | 766 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 14 | 422 | 0.056777666 | 572 | 762 | 7432.5 | 761 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 15 | 859 | 0.114531806 | 555 | 769 | 7500.1 | 763 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 16 | 1192 | 0.158854965 | 555 | 769 | 7503.7 | 767 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 17 | 1078 | 0.143524744 | 555 | 770 | 7510.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 18 | 974 | 0.129673022 | 555 | 770 | 7511.2 | 766 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 19 | 850 | 0.113386247 | 532 | 769 | 7496.5 | 766 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 20 | 585 | 0.09201296 | 400 | 652 | 6357.8 | 651 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 21 | 473 | 0.085959365 | 319 | 564 | 5502.6 | 556 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 22 | 293 | 0.067846061 | 246 | 443 | 4318.6 | 432 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 23 | 116 | 0.043154762 | 131 | 275 | 2688 | 251 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 0 | 133 | 0.05267744 | 143 | 259 | 2524.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 1 | 125 | 0.049640602 | 143 | 258 | 2518.1 | 225 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 2 | 103 | 0.041053848 | 140 | 257 | 2508.9 | 225 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 3 | 95 | 0.037905993 | 142 | 257 | 2506.2 | 225 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 4 | 100 | 0.039834289 | 145 | 257 | 2510.4 | 225 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 5 | 210 | 0.065838977 | 210 | 327 | 3189.6 | 295 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 6 | 298 | 0.078540931 | 212 | 389 | 3794.2 | 365 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 7 | 240 | 0.060796433 | 217 | 405 | 3947.6 | 379 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 8 | 541 | 0.09976028 | 320 | 556 | 5423 | 544 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 9 | 889 | 0.129061293 | 461 | 706 | 6888.2 | 705 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 10 | 894 | 0.12003867 | 521 | 764 | 7447.6 | 764 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 11 | 811 | 0.108967296 | 528 | 763 | 7442.6 | 765 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 12 | 796 | 0.106915958 | 543 | 763 | 7445.1 | 764 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 13 | 770 | 0.103877182 | 541 | 760 | 7412.6 | 763 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 14 | 723 | 0.097194402 | 535 | 763 | 7438.7 | 761 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 15 | 711 | 0.094817699 | 547 | 769 | 7498.6 | 764 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 16 | 793 | 0.105829285 | 554 | 768 | 7493.2 | 761 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 17 | 941 | 0.12474481 | 558 | 774 | 7543.4 | 763 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 18 | 820 | 0.108980237 | 556 | 772 | 7524.3 | 764 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 19 | 772 | 0.103205797 | 553 | 767 | 7480.2 | 764 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 20 | 624 | 0.088954781 | 498 | 719 | 7014.8 | 720 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 21 | 386 | 0.069521991 | 327 | 569 | 5552.2 | 562 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 22 | 197 | 0.0494267 | 227 | 408 | 3985.7 | 385 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 23 | 94 | 0.034190521 | 151 | 282 | 2749.3 | 244 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 0 | 110 | 0.042186002 | 146 | 267 | 2607.5 | 227 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 1 | 126 | 0.048455947 | 150 | 266 | 2600.3 | 227 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 2 | 108 | 0.041501748 | 150 | 267 | 2602.3 | 227 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 3 | 96 | 0.036870607 | 156 | 267 | 2603.7 | 227 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 4 | 96 | 0.036987093 | 155 | 266 | 2595.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 5 | 97 | 0.037626067 | 159 | 264 | 2578 | 227 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 6 | 129 | 0.045865036 | 168 | 288 | 2812.6 | 253 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 7 | 119 | 0.042375899 | 179 | 288 | 2808.2 | 254 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 8 | 142 | 0.045852304 | 192 | 317 | 3096.9 | 284 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 9 | 340 | 0.075600916 | 287 | 461 | 4497.3 | 434 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 10 | 527 | 0.096483038 | 344 | 560 | 5462.1 | 539 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 11 | 1123 | 0.153476104 | 570 | 750 | 7317.1 | 738 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 12 | 845 | 0.112552613 | 570 | 770 | 7507.6 | 766 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 13 | 716 | 0.095641372 | 591 | 768 | 7486.3 | 764 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 14 | 879 | 0.116911618 | 586 | 771 | 7518.5 | 765 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 15 | 814 | 0.108146888 | 594 | 772 | 7526.8 | 767 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 16 | 563 | 0.075080682 | 614 | 769 | 7498.6 | 765 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 17 | 588 | 0.077978914 | 618 | 773 | 7540.5 | 764 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 18 | 618 | 0.082304527 | 615 | 770 | 7508.7 | 766 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 19 | 621 | 0.081551715 | 624 | 781 | 7614.8 | 772 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 20 | 796 | 0.10728052 | 563 | 761 | 7419.8 | 761 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 21 | 543 | 0.08960396 | 381 | 621 | 6060 | 618 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 22 | 399 | 0.075356954 | 291 | 543 | 5294.8 | 525 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 23 | 206 | 0.051680883 | 203 | 409 | 3986 | 387 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 0 | 114 | 0.040618542 | 143 | 288 | 2806.6 | 250 |

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| FL | Crystal River | 5 | 2013 | 9/21/2013 | 1 | 149 | 0.057571191 | 142 | 265 | 2588.1 | 227 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 2 | 133 | 0.051349369 | 147 | 265 | 2590.1 | 226 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 3 | 109 | 0.042277558 | 144 | 264 | 2578.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 4 | 107 | 0.041650448 | 151 | 263 | 2569 | 226 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 5 | 108 | 0.041718171 | 142 | 265 | 2588.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 6 | 123 | 0.047956956 | 143 | 263 | 2564.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 7 | 139 | 0.050527081 | 159 | 282 | 2751 | 243 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 8 | 398 | 0.091257194 | 274 | 447 | 4361.3 | 420 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 9 | 992 | 0.150849288 | 434 | 674 | 6576.1 | 658 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 10 | 981 | 0.130348126 | 541 | 772 | 7526 | 768 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 11 | 792 | 0.104877048 | 558 | 774 | 7551.7 | 770 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 12 | 798 | 0.105922642 | 542 | 773 | 7533.8 | 770 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 13 | 966 | 0.128210233 | 565 | 773 | 7534.5 | 768 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 14 | 981 | 0.129065362 | 554 | 779 | 7600.8 | 769 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 15 | 952 | 0.126256598 | 550 | 773 | 7540.2 | 769 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 16 | 879 | 0.116575157 | 542 | 773 | 7540.2 | 768 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 17 | 903 | 0.119231531 | 560 | 777 | 7573.5 | 769 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 18 | 840 | 0.111217032 | 558 | 774 | 7552.8 | 770 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 19 | 845 | 0.11212845 | 557 | 773 | 7536 | 769 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 20 | 748 | 0.108456096 | 455 | 707 | 6896.8 | 703 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 21 | 624 | 0.105128378 | 338 | 609 | 5935.6 | 595 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 22 | 639 | 0.114217281 | 307 | 574 | 5594.6 | 558 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 23 | 384 | 0.089525097 | 214 | 440 | 4289.3 | 415 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 0 | 369 | 0.112216039 | 167 | 337 | 3288.3 | 303 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 1 | 99 | 0.037689877 | 147 | 269 | 2626.7 | 227 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 2 | 151 | 0.057550118 | 144 | 269 | 2623.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 3 | 165 | 0.063342163 | 143 | 267 | 2604.9 | 227 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 4 | 132 | 0.050681513 | 145 | 267 | 2604.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 5 | 139 | 0.053434821 | 150 | 266 | 2601.3 | 226 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 6 | 114 | 0.044228904 | 144 | 264 | 2577.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 7 | 77 | 0.027755749 | 163 | 284 | 2774.2 | 247 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 8 | 173 | 0.041200286 | 268 | 430 | 4199 | 402 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 9 | 912 | 0.145663632 | 413 | 642 | 6261 | 620 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 10 | 1433 | 0.189184907 | 568 | 777 | 7574.6 | 764 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 11 | 641 | 0.084337666 | 600 | 779 | 7600.4 | 768 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 12 | 597 | 0.079073895 | 596 | 774 | 7549.9 | 766 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 13 | 774 | 0.103050234 | 608 | 770 | 7510.9 | 767 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 14 | 839 | 0.111529105 | 624 | 771 | 7522.7 | 768 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 15 | 664 | 0.088077678 | 618 | 773 | 7538.8 | 770 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 16 | 841 | 0.110441372 | 609 | 781 | 7614.9 | 770 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 17 | 1014 | 0.134363364 | 581 | 774 | 7546.7 | 769 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 18 | 893 | 0.117967212 | 552 | 776 | 7569.9 | 768 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 19 | 837 | 0.110111295 | 547 | 779 | 7601.4 | 772 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 20 | 606 | 0.090233625 | 429 | 689 | 6715.9 | 686 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 21 | 648 | 0.105516837 | 368 | 630 | 6141.2 | 617 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 22 | 573 | 0.10931568 | 293 | 537 | 5241.7 | 521 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 23 | 507 | 0.113725578 | 240 | 457 | 4458.1 | 431 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 0 | 201 | 0.073234715 | 161 | 281 | 2744.6 | 242 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 1 | 188 | 0.07256726 | 152 | 265 | 2590.7 | 227 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 2 | 165 | 0.06296268 | 159 | 268 | 2620.6 | 226 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 3 | 141 | 0.054155784 | 156 | 267 | 2603.6 | 227 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 4 | 154 | 0.05899705 | 156 | 267 | 2610.3 | 231 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 5 | 373 | 0.095916478 | 248 | 399 | 3888.8 | 367 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 6 | 500 | 0.106908422 | 271 | 479 | 4676.9 | 463 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 7 | 511 | 0.107855967 | 293 | 486 | 4737.8 | 470 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 8 | 1148 | 0.184952473 | 409 | 636 | 6207 | 628 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 9 | 1018 | 0.137485819 | 547 | 759 | 7404.4 | 760 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 10 | 786 | 0.105042298 | 583 | 767 | 7482.7 | 765 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 11 | 864 | 0.115375371 | 591 | 768 | 7488.6 | 769 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 12 | 908 | 0.122654635 | 570 | 759 | 7402.9 | 764 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 13 | 928 | 0.124483554 | 752 | 764 | 7454.8 | 764 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 14 | 943 | 0.127648054 | 517 | 758 | 7387.5 | 764 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 15 | 988 | 0.133203904 | 571 | 761 | 7417.2 | 766 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 16 | 1077 | 0.143795562 | 561 | 768 | 7489.8 | 766 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 17 | 1461 | 0.19330255 | 529 | 775 | 7558.1 | 770 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 18 | 1528 | 0.202991737 | 511 | 772 | 7527.4 | 771 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 19 | 1081 | 0.143444798 | 512 | 773 | 7536 | 774 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 20 | 610 | 0.094984507 | 385 | 658 | 6422.1 | 657 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 21 | 610 | 0.104748004 | 320 | 597 | 5823.5 | 588 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 22 | 814 | 0.151486954 | 279 | 551 | 5373.4 | 536 |

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| FL | Crystal River | 5 | 2013 | 9/23/2013 | 23 | 368 | 0.105323412 | 178 | 358 | 3494 | 342 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 0 | 223 | 0.08699723 | 146 | 263 | 2563.3 | 226 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 1 | 219 | 0.084788416 | 144 | 265 | 2582.9 | 226 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 2 | 190 | 0.07388109 | 141 | 263 | 2571.7 | 226 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 3 | 185 | 0.07181677 | 144 | 264 | 2576 | 226 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 4 | 291 | 0.096687377 | 180 | 308 | 3009.7 | 276 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 5 | 943 | 0.188554747 | 285 | 513 | 5001.2 | 487 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 6 | 1402 | 0.232323065 | 337 | 619 | 6034.7 | 610 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 7 | 206 | 0.185495345 | 61 | 113 | 1110.54 | 554 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 8 | 0 | 0 | 0 | 1 | 9.775 | 0 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 9 | 1 | 0.011633859 | 2 | 8 | 85.956 | 0 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 10 | 1 | 0.005589715 | 6 | 18 | 178.9 | 0 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 11 | 11 | 0.074475288 | 3 | 15 | 147.7 | 0 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 12 | 6 | 0.029268293 | 8 | 21 | 205 | 0 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 13 | 4 | 0.019704433 | 7 | 20 | 203 | 0 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 14 | 3 | 0.02073255 | 4 | 14 | 144.7 | 0 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 15 | 0 | 0 | 0 | 0 | 9.588 | 0 |
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| FL | Crystal River | 5 | 2013 | 9/25/2013 | 9 | | #DIV/0! | | | | |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|---------|-----|--|
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 10 | | #DIV/0! | | | | | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 11 | | #DIV/0! | | | | | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 12 | | #DIV/0! | | | | | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 13 | | #DIV/0! | | | | | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 14 | 0 | 0 | 0 | 2 | 21.138 | 0 | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 15 | 7 | 0.05204461 | 30 | 13 | 134.5 | 0 | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 16 | 7 | 0.060462103 | 3 | 11 | 115.775 | 0 | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 17 | 2 | 0.014682886 | 3 | 14 | 136.213 | 0 | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 18 | 9 | 0.039352864 | 7 | 23 | 228.7 | 0 | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 19 | 21 | 0.06527821 | 31 | 33 | 321.7 | 0 | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 20 | 39 | 0.090866729 | 66 | 44 | 429.2 | 0 | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 21 | 56 | 0.132985039 | 66 | 43 | 421.1 | 0 | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 22 | 103 | 0.24419156 | 67 | 43 | 421.8 | 0 | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 23 | 79 | 0.146052875 | 82 | 55 | 540.9 | 0 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 0 | 75 | 0.137086456 | 83 | 56 | 547.1 | 17 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 1 | 93 | 0.123342175 | 122 | 77 | 754 | 34 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 2 | 174 | 0.165967188 | 198 | 107 | 1048.4 | 55 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 3 | 257 | 0.158798814 | 458 | 166 | 1618.4 | 115 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 4 | 429 | 0.226732202 | 609 | 194 | 1892.1 | 152 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 5 | 402 | 0.16 | 799 | 257 | 2512.5 | 213 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 6 | 277 | 0.096653756 | 576 | 294 | 2865.9 | 251 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 7 | 228 | 0.076279692 | 735 | 306 | 2989 | 251 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 8 | 550 | 0.134313414 | 671 | 420 | 4094.9 | 383 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 9 | 1419 | 0.222163076 | 281 | 655 | 6387.2 | 641 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 10 | 1540 | 0.208550574 | 398 | 757 | 7384.3 | 759 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 11 | 833 | 0.11313477 | 618 | 755 | 7362.9 | 765 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 12 | 772 | 0.105139869 | 712 | 753 | 7342.6 | 765 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 13 | 962 | 0.131059099 | 778 | 753 | 7340.2 | 765 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 14 | 992 | 0.134960478 | 757 | 754 | 7350.3 | 764 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 15 | 849 | 0.115820635 | 527 | 752 | 7330.3 | 764 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 16 | 856 | 0.115923187 | 553 | 757 | 7384.2 | 765 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 17 | 889 | 0.120305839 | 561 | 758 | 7389.5 | 768 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 18 | 940 | 0.126794 | 563 | 760 | 7413.6 | 768 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 19 | 942 | 0.126834523 | 571 | 762 | 7427 | 769 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 20 | 676 | 0.105187813 | 411 | 659 | 6426.6 | 658 | |

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|----|---------------|---|------|-----------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 21 | 283 | 0.06499024 | 239 | 446 | 4354.5 | 436 |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 22 | 130 | 0.043216648 | 153 | 308 | 3008.1 | 280 |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 23 | 96 | 0.037568974 | 143 | 262 | 2555.3 | 226 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 0 | 108 | 0.042347959 | 145 | 261 | 2550.3 | 227 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 1 | 91 | 0.035808444 | 149 | 260 | 2541.3 | 226 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 2 | 87 | 0.034202146 | 155 | 261 | 2543.7 | 226 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 3 | 77 | 0.030280389 | 147 | 260 | 2542.9 | 227 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 4 | 80 | 0.031207334 | 153 | 263 | 2563.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 5 | 102 | 0.037312068 | 161 | 280 | 2733.7 | 244 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 6 | 113 | 0.040102207 | 163 | 289 | 2817.8 | 252 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 7 | 107 | 0.037861364 | 161 | 290 | 2826.1 | 254 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 8 | 100 | 0.034971149 | 160 | 293 | 2859.5 | 258 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 9 | 98 | 0.034161815 | 172 | 294 | 2868.7 | 258 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 10 | 181 | 0.049542892 | 222 | 374 | 3653.4 | 344 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 11 | 230 | 0.054401817 | 274 | 433 | 4227.8 | 405 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 12 | 317 | 0.064970999 | 336 | 500 | 4879.1 | 478 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 13 | 434 | 0.080567313 | 420 | 552 | 5386.8 | 538 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 14 | 767 | 0.127014092 | 507 | 619 | 6038.7 | 606 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 15 | 628 | 0.098700237 | 572 | 652 | 6362.7 | 643 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 16 | 450 | 0.074976258 | 546 | 615 | 6001.9 | 605 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 17 | 347 | 0.063554278 | 464 | 560 | 5459.9 | 559 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 18 | 206 | 0.046926967 | 360 | 450 | 4389.8 | 433 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 19 | 185 | 0.048804939 | 291 | 388 | 3790.6 | 366 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 20 | 89 | 0.03403702 | 188 | 268 | 2614.8 | 229 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 21 | 96 | 0.037037037 | 197 | 265 | 2592 | 227 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 22 | 105 | 0.040257649 | 195 | 267 | 2608.2 | 227 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 23 | 100 | 0.038370041 | 216 | 267 | 2606.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 0 | 93 | 0.035754104 | 208 | 266 | 2601.1 | 226 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 1 | 83 | 0.031934131 | 194 | 266 | 2599.1 | 227 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 2 | 81 | 0.03115145 | 192 | 266 | 2600.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 3 | 79 | 0.030330953 | 192 | 267 | 2604.6 | 226 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 4 | 76 | 0.029402662 | 201 | 265 | 2584.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 5 | 76 | 0.029348162 | 202 | 265 | 2589.6 | 226 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 6 | 90 | 0.034882369 | 190 | 264 | 2580.1 | 227 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 7 | 105 | 0.038156843 | 184 | 282 | 2751.8 | 246 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 8 | 140 | 0.042850147 | 245 | 335 | 3267.2 | 303 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 9 | 217 | 0.054558254 | 298 | 408 | 3977.4 | 377 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 10 | 257 | 0.061158441 | 327 | 431 | 4202.2 | 407 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 11 | 664 | 0.114439351 | 510 | 595 | 5802.2 | 571 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 12 | 1036 | 0.153841585 | 707 | 690 | 6734.2 | 684 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 13 | 1230 | 0.165634258 | 757 | 761 | 7426 | 765 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 14 | 957 | 0.127763537 | 756 | 768 | 7490.4 | 771 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 15 | 718 | 0.095765255 | 794 | 769 | 7497.5 | 770 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 16 | 544 | 0.073862865 | 869 | 755 | 7365 | 758 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 17 | 326 | 0.055620959 | 445 | 601 | 5861.1 | 593 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 18 | 277 | 0.051273508 | 383 | 554 | 5402.4 | 536 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 19 | 133 | 0.037230916 | 260 | 366 | 3572.3 | 350 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 20 | 74 | 0.028616729 | 201 | 265 | 2585.9 | 226 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 21 | 78 | 0.029734675 | 191 | 269 | 2623.2 | 227 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 22 | 85 | 0.032686022 | 174 | 266 | 2600.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 23 | 98 | 0.037778035 | 168 | 266 | 2594.1 | 226 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 0 | 100 | 0.038529706 | 160 | 266 | 2595.4 | 226 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 1 | 92 | 0.035414582 | 150 | 266 | 2597.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 2 | 93 | 0.035744485 | 150 | 266 | 2601.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 3 | 91 | 0.034919417 | 153 | 267 | 2606 | 227 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 4 | 66 | 0.025546739 | 149 | 265 | 2583.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 5 | 56 | 0.021645022 | 173 | 265 | 2587.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 6 | 67 | 0.025929796 | 168 | 265 | 2583.9 | 226 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 7 | 87 | 0.030658632 | 187 | 291 | 2837.7 | 254 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 8 | 93 | 0.029595214 | 210 | 322 | 3142.4 | 287 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 9 | 159 | 0.040542608 | 286 | 402 | 3921.8 | 369 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 10 | 307 | 0.065494731 | 351 | 480 | 4687.4 | 458 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 11 | 852 | 0.118590279 | 797 | 737 | 7184.4 | 724 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 12 | 687 | 0.092160335 | 842 | 764 | 7454.4 | 765 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 13 | 602 | 0.080449018 | 613 | 767 | 7483 | 769 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 14 | 600 | 0.080193534 | 770 | 767 | 7481.9 | 767 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 15 | 684 | 0.091054313 | 270 | 770 | 7512 | 770 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 16 | 968 | 0.129725673 | 395 | 765 | 7461.9 | 767 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 17 | 1158 | 0.154935042 | 605 | 766 | 7474.1 | 765 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 18 | 945 | 0.125840602 | 683 | 770 | 7509.5 | 767 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 19 | 839 | 0.112120807 | 681 | 767 | 7483 | 763 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 20 | 528 | 0.085976682 | 466 | 630 | 6141.2 | 622 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 21 | 272 | 0.05899833 | 249 | 473 | 4610.3 | 462 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 22 | 75 | 0.027885187 | 115 | 276 | 2689.6 | 240 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 23 | 84 | 0.031975638 | 131 | 269 | 2627 | 229 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 0 | 91 | 0.034943553 | 127 | 267 | 2604.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 1 | 102 | 0.039294245 | 135 | 266 | 2595.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 2 | 94 | 0.036174716 | 161 | 266 | 2598.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 3 | 82 | 0.031538462 | 150 | 266 | 2600 | 227 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 4 | 75 | 0.029108127 | 136 | 264 | 2576.6 | 226 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 5 | 110 | 0.037257824 | 121 | 302 | 2952.4 | 262 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 6 | 133 | 0.044961293 | 147 | 303 | 2958.1 | 268 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 7 | 121 | 0.041064277 | 112 | 302 | 2946.6 | 265 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 8 | 139 | 0.044624225 | 133 | 319 | 3114.9 | 289 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 9 | 233 | 0.059191139 | 212 | 403 | 3936.4 | 371 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 10 | 536 | 0.098128959 | 420 | 560 | 5462.2 | 536 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 11 | 927 | 0.134570159 | 592 | 706 | 6888.6 | 659 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 12 | 1177 | 0.156713934 | 751 | 770 | 7510.5 | 763 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 13 | 972 | 0.128250802 | 773 | 777 | 7578.9 | 769 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 14 | 799 | 0.10517171 | 797 | 779 | 7597.1 | 768 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 15 | 691 | 0.091347743 | 794 | 776 | 7564.5 | 770 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 16 | 728 | 0.096553005 | 799 | 773 | 7539.9 | 768 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 17 | 1039 | 0.138933462 | 650 | 767 | 7478.4 | 770 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 18 | 995 | 0.144336776 | 372 | 707 | 6893.6 | 705 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 19 | 757 | 0.12653996 | 197 | 613 | 5982.3 | 606 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 20 | 390 | 0.086168802 | 135 | 464 | 4526 | 446 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 21 | 120 | 0.040408122 | 89 | 304 | 2969.7 | 272 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 22 | 90 | 0.034376074 | 94 | 268 | 2618.1 | 226 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 23 | 105 | 0.040325678 | 91 | 267 | 2603.8 | 227 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 0 | 132 | 0.050955414 | 95 | 265 | 2590.5 | 227 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 1 | 142 | 0.054541963 | 91 | 267 | 2603.5 | 226 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 2 | 150 | 0.057774525 | 96 | 266 | 2596.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 3 | 140 | 0.053437154 | 91 | 268 | 2619.9 | 226 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 4 | 362 | 0.139644331 | 127 | 266 | 2592.3 | 227 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 5 | 387 | 0.149265245 | 215 | 266 | 2592.7 | 226 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 6 | 360 | 0.139173464 | 421 | 265 | 2586.7 | 226 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 7 | 461 | 0.152674284 | 247 | 309 | 3019.5 | 273 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 8 | 868 | 0.226874722 | 172 | 392 | 3825.9 | 364 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 9 | 1906 | 0.348484294 | 344 | 561 | 5469.4 | 537 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 10 | 2138 | 0.338135982 | 531 | 648 | 6322.9 | 639 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 11 | 1914 | 0.257854179 | 831 | 761 | 7422.8 | 751 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 12 | 1664 | 0.221344294 | 887 | 771 | 7517.7 | 769 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 13 | 630 | 0.083753207 | 835 | 771 | 7522.1 | 770 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 14 | 584 | 0.077381741 | 618 | 774 | 7547 | 768 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 15 | 817 | 0.108604623 | 729 | 771 | 7522.7 | 768 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 16 | 1294 | 0.171613485 | 693 | 773 | 7540.2 | 768 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 17 | 1310 | 0.173067523 | 643 | 776 | 7569.3 | 770 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 18 | 1101 | 0.145760244 | 755 | 775 | 7553.5 | 772 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 19 | 948 | 0.128472693 | 575 | 757 | 7379 | 755 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 20 | 574 | 0.096810646 | 106 | 608 | 5929.1 | 597 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 21 | 717 | 0.132253661 | 428 | 556 | 5421.4 | 539 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 22 | 617 | 0.141685994 | 235 | 446 | 4354.7 | 421 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 23 | 380 | 0.102046297 | 219 | 382 | 3723.8 | 352 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 0 | 372 | 0.101064986 | 198 | 377 | 3680.8 | 346 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 1 | 169 | 0.058239713 | 92 | 297 | 2901.8 | 260 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 2 | 166 | 0.062816923 | 79 | 271 | 2642.6 | 229 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 3 | 175 | 0.067724458 | 250 | 265 | 2584 | 227 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 4 | 159 | 0.060940554 | 300 | 267 | 2609.1 | 226 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 5 | 153 | 0.059020947 | 256 | 266 | 2592.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 6 | 173 | 0.067755454 | 135 | 262 | 2553.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 7 | 155 | 0.059402905 | 198 | 267 | 2609.3 | 231 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 8 | 338 | 0.096145641 | 302 | 360 | 3515.5 | 331 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 9 | 687 | 0.147923261 | 445 | 476 | 4644.3 | 451 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 10 | 1021 | 0.181041209 | 631 | 578 | 5639.6 | 556 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 11 | 1049 | 0.166412843 | 630 | 646 | 6303.6 | 634 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 12 | 1274 | 0.191957088 | 590 | 680 | 6636.9 | 668 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 13 | 1336 | 0.20088111 | 618 | 682 | 6650.7 | 671 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 14 | 1346 | 0.199644023 | 829 | 691 | 6742 | 681 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 15 | 845 | 0.125096228 | 702 | 693 | 6754.8 | 681 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 16 | 942 | 0.139808246 | 599 | 691 | 6737.8 | 681 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 17 | 1107 | 0.16469538 | 544 | 689 | 6721.5 | 681 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 18 | 882 | 0.130922693 | 538 | 691 | 6736.8 | 681 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 19 | 1041 | 0.155194776 | 536 | 688 | 6707.7 | 681 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 20 | 746 | 0.124832664 | 304 | 613 | 5976 | 604 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 21 | 892 | 0.157020138 | 340 | 582 | 5680.8 | 575 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 22 | 434 | 0.103185925 | 180 | 431 | 4206 | 411 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 23 | 173 | 0.064250167 | 99 | 276 | 2692.6 | 245 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 0 | 179 | 0.068456479 | 88 | 268 | 2614.8 | 227 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 1 | 160 | 0.061316778 | 114 | 267 | 2609.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 2 | 136 | 0.052235366 | 135 | 267 | 2603.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 3 | 121 | 0.046179681 | 141 | 268 | 2620.2 | 227 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 4 | 130 | 0.04996925 | 130 | 266 | 2601.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 5 | 127 | 0.048703789 | 114 | 267 | 2607.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 6 | 122 | 0.04670214 | 114 | 268 | 2612.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 7 | 124 | 0.046094941 | 121 | 276 | 2690.1 | 238 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 8 | 192 | 0.060550632 | 155 | 325 | 3170.9 | 294 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 9 | 404 | 0.098808912 | 253 | 419 | 4088.7 | 389 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 10 | 911 | 0.166228742 | 367 | 562 | 5480.4 | 544 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 11 | 1883 | 0.253636853 | 400 | 761 | 7424 | 752 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 12 | 997 | 0.131991792 | 543 | 775 | 7553.5 | 770 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 13 | 843 | 0.111868995 | 617 | 773 | 7535.6 | 770 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 14 | 929 | 0.124148069 | 651 | 767 | 7483 | 768 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 15 | 1356 | 0.180964074 | 629 | 768 | 7493.2 | 769 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 16 | 1487 | 0.198502223 | 606 | 768 | 7491.1 | 768 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 17 | 1203 | 0.160310226 | 615 | 769 | 7504.2 | 769 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 18 | 1056 | 0.139934273 | 626 | 774 | 7546.4 | 770 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 19 | 746 | 0.10348463 | 511 | 739 | 7208.8 | 729 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 20 | 323 | 0.055940423 | 363 | 592 | 5774 | 575 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 21 | 242 | 0.054443195 | 240 | 456 | 4445 | 437 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 22 | 139 | 0.043990126 | 183 | 324 | 3159.8 | 290 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 23 | 146 | 0.050968755 | 203 | 293 | 2864.5 | 252 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 0 | 202 | 0.070780336 | 142 | 292 | 2853.9 | 251 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 1 | 166 | 0.058638595 | 150 | 290 | 2830.9 | 252 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 2 | 157 | 0.054682874 | 155 | 294 | 2871.1 | 251 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 3 | 162 | 0.057341073 | 183 | 289 | 2825.2 | 252 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 4 | 128 | 0.045711021 | 176 | 287 | 2800.2 | 251 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 5 | 132 | 0.04566684 | 167 | 296 | 2890.5 | 256 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 6 | 140 | 0.04869904 | 267 | 295 | 2874.8 | 255 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 7 | 117 | 0.041189931 | 769 | 291 | 2840.5 | 254 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 8 | 174 | 0.05497283 | 655 | 324 | 3165.2 | 293 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 9 | 494 | 0.10876266 | 290 | 466 | 4542 | 435 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 10 | 701 | 0.123904129 | 350 | 580 | 5657.6 | 562 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 11 | 1190 | 0.159065391 | 538 | 767 | 7481.2 | 756 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 12 | 1000 | 0.132383701 | 566 | 775 | 7553.8 | 768 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 13 | 854 | 0.113604619 | 548 | 771 | 7517.3 | 764 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 14 | 1421 | 0.189237059 | 548 | 770 | 7509.1 | 763 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 15 | 1522 | 0.201477324 | 543 | 775 | 7554.2 | 766 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 16 | 1550 | 0.205856963 | 542 | 772 | 7529.5 | 767 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 17 | 1720 | 0.229021864 | 540 | 770 | 7510.2 | 766 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 18 | 1833 | 0.243973859 | 540 | 770 | 7513.1 | 766 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 19 | 1326 | 0.18014591 | 515 | 755 | 7360.7 | 751 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 20 | 861 | 0.142528431 | 374 | 619 | 6040.9 | 612 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 21 | 397 | 0.079666085 | 254 | 511 | 4983.3 | 492 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 22 | 67 | 0.020948629 | 156 | 328 | 3198.3 | 294 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 23 | 43 | 0.016242351 | 145 | 271 | 2647.4 | 229 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 0 | 44 | 0.01690812 | 145 | 267 | 2602.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 1 | 51 | 0.019649393 | 150 | 266 | 2595.5 | 226 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 2 | 46 | 0.017596205 | 156 | 268 | 2614.2 | 226 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 3 | 47 | 0.017914999 | 167 | 269 | 2623.5 | 226 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 4 | 52 | 0.019874637 | 157 | 268 | 2616.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 5 | 64 | 0.024529531 | 159 | 267 | 2609.1 | 226 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 6 | 89 | 0.034146716 | 161 | 267 | 2606.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 7 | 246 | 0.088083644 | 178 | 286 | 2792.8 | 247 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 8 | 373 | 0.107925118 | 217 | 354 | 3456.1 | 327 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 9 | 424 | 0.102569065 | 235 | 424 | 4133.8 | 393 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 10 | 386 | 0.080596329 | 268 | 491 | 4789.3 | 468 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 11 | 1234 | 0.18405823 | 442 | 687 | 6704.4 | 670 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 12 | 1579 | 0.210898891 | 539 | 768 | 7487 | 766 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 13 | 1222 | 0.162370449 | 541 | 772 | 7526 | 765 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 14 | 1462 | 0.191918927 | 548 | 781 | 7617.8 | 766 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 15 | 1726 | 0.227608398 | 553 | 778 | 7583.2 | 765 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 16 | 1553 | 0.207003186 | 540 | 769 | 7502.3 | 766 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 17 | 1538 | 0.204388098 | 534 | 772 | 7524.9 | 765 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 18 | 1507 | 0.201177429 | 539 | 768 | 7490.9 | 765 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 19 | 907 | 0.131590401 | 441 | 707 | 6892.6 | 704 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 20 | 263 | 0.0529484 | 253 | 509 | 4967.1 | 488 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 21 | 96 | 0.028997765 | 152 | 339 | 3310.6 | 309 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 22 | 79 | 0.028754459 | 140 | 281 | 2747.4 | 239 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 23 | 78 | 0.029594779 | 137 | 270 | 2635.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 0 | 94 | 0.035845027 | 139 | 269 | 2622.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 1 | 108 | 0.041248138 | 138 | 268 | 2618.3 | 227 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 2 | 99 | 0.038259391 | 142 | 265 | 2587.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 3 | 77 | 0.029682742 | 153 | 266 | 2594.1 | 227 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 4 | 96 | 0.036385688 | 147 | 270 | 2638.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 5 | 88 | 0.033147506 | 135 | 272 | 2654.8 | 226 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 6 | 113 | 0.04260132 | 143 | 272 | 2652.5 | 229 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 7 | 134 | 0.047504254 | 152 | 289 | 2820.8 | 252 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 8 | 177 | 0.053859964 | 177 | 337 | 3286.3 | 303 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 9 | 303 | 0.072420469 | 217 | 429 | 4183.9 | 398 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 10 | 429 | 0.08321049 | 293 | 529 | 5155.6 | 509 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 11 | 1237 | 0.174727386 | 481 | 726 | 7079.6 | 716 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 12 | 1275 | 0.169873161 | 540 | 770 | 7505.6 | 766 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 13 | 1048 | 0.139065817 | 557 | 773 | 7536 | 766 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 14 | 1033 | 0.136790392 | 543 | 774 | 7551.7 | 766 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 15 | 1074 | 0.143469723 | 539 | 768 | 7485.9 | 767 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 16 | 1234 | 0.164006326 | 541 | 772 | 7524.1 | 766 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 17 | 1385 | 0.183872338 | 542 | 772 | 7532.4 | 767 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 18 | 1277 | 0.168505225 | 545 | 777 | 7578.4 | 767 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 19 | 1255 | 0.168907552 | 549 | 762 | 7430.1 | 756 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 20 | 553 | 0.089515515 | 376 | 633 | 6177.7 | 628 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 21 | 709 | 0.134760131 | 289 | 539 | 5261.2 | 524 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 22 | 370 | 0.110546758 | 170 | 343 | 3347 | 317 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 23 | 119 | 0.045185298 | 160 | 270 | 2633.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 0 | 83 | 0.031946422 | 161 | 266 | 2598.1 | 227 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 1 | 79 | 0.030111297 | 165 | 269 | 2623.6 | 226 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 2 | 101 | 0.038688424 | 172 | 267 | 2610.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 3 | 101 | 0.038615943 | 162 | 268 | 2615.5 | 226 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 4 | 112 | 0.043168241 | 160 | 266 | 2594.5 | 226 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 5 | 185 | 0.063608857 | 192 | 298 | 2908.4 | 261 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 6 | 135 | 0.045625063 | 189 | 303 | 2958.9 | 261 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 7 | 99 | 0.034729531 | 185 | 292 | 2850.6 | 254 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 8 | 188 | 0.054124082 | 232 | 356 | 3473.5 | 323 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 9 | 403 | 0.087219998 | 277 | 474 | 4620.5 | 451 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 10 | 264 | 0.05923001 | 263 | 457 | 4457.2 | 433 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 11 | 407 | 0.076825792 | 317 | 543 | 5297.7 | 525 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 12 | 396 | 0.078172809 | 273 | 519 | 5065.7 | 499 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 13 | 748 | 0.117571242 | 419 | 652 | 6362.1 | 639 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 14 | 1100 | 0.165473254 | 425 | 682 | 6647.6 | 676 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 15 | 993 | 0.149609028 | 438 | 681 | 6637.3 | 678 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 16 | 882 | 0.132669485 | 432 | 682 | 6648.1 | 673 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 17 | 783 | 0.135711314 | 328 | 592 | 5769.6 | 582 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 18 | 727 | 0.132538467 | 312 | 562 | 5485.2 | 549 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 19 | 697 | 0.137967893 | 520 | 518 | 5051.9 | 505 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 20 | 372 | 0.102978629 | 213 | 370 | 3612.4 | 339 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 21 | 348 | 0.119847092 | 34 | 297 | 2903.7 | 262 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 22 | 217 | 0.075274039 | 63 | 295 | 2882.8 | 257 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 23 | 98 | 0.03681166 | 71 | 273 | 2662.2 | 233 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 0 | 89 | 0.034350998 | 228 | 265 | 2590.9 | 227 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 1 | 102 | 0.039522629 | 154 | 264 | 2580.8 | 226 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 2 | 106 | 0.040453383 | 157 | 268 | 2620.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 3 | 96 | 0.037354086 | 156 | 263 | 2570 | 227 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 4 | 105 | 0.040546803 | 158 | 265 | 2589.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 5 | 152 | 0.054913295 | 174 | 284 | 2768 | 248 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 6 | 205 | 0.063265747 | 184 | 332 | 3240.3 | 296 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 7 | 448 | 0.093247856 | 278 | 492 | 4804.4 | 469 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 8 | 792 | 0.11558669 | 465 | 703 | 6852 | 700 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 9 | 688 | 0.096796432 | 490 | 729 | 7107.7 | 726 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 10 | 573 | 0.080771345 | 489 | 727 | 7094.1 | 726 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 11 | 541 | 0.076014107 | 491 | 730 | 7117.1 | 726 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 12 | 562 | 0.078944781 | 469 | 730 | 7118.9 | 726 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 13 | 562 | 0.079256512 | 482 | 727 | 7090.9 | 726 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 14 | 842 | 0.11681303 | 490 | 739 | 7208.1 | 726 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 15 | 1240 | 0.17179036 | 498 | 740 | 7218.1 | 726 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 16 | 1238 | 0.171238087 | 491 | 741 | 7229.7 | 727 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 17 | 1135 | 0.160924429 | 465 | 723 | 7053 | 717 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 18 | 572 | 0.085438169 | 421 | 686 | 6694.9 | 680 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 19 | 526 | 0.086494664 | 340 | 623 | 6081.3 | 610 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 20 | 272 | 0.061798519 | 220 | 451 | 4401.4 | 433 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 21 | 129 | 0.040833122 | 132 | 324 | 3159.2 | 295 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 22 | 85 | 0.032532149 | 135 | 268 | 2612.8 | 227 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 23 | 85 | 0.032714957 | 163 | 266 | 2598.2 | 226 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 0 | 86 | 0.033135548 | 163 | 266 | 2595.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 1 | 85 | 0.032840088 | 165 | 265 | 2588.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 2 | 108 | 0.041492182 | 169 | 267 | 2602.9 | 226 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 3 | 126 | 0.048581123 | 179 | 266 | 2593.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 4 | 123 | 0.047713255 | 162 | 264 | 2577.9 | 226 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 5 | 167 | 0.058171938 | 175 | 294 | 2870.8 | 255 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 6 | 256 | 0.075371706 | 207 | 348 | 3396.5 | 304 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 7 | 658 | 0.117567181 | 324 | 574 | 5596.8 | 558 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 8 | 806 | 0.120711087 | 420 | 685 | 6677.1 | 684 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 9 | 1023 | 0.145732724 | 435 | 720 | 7019.7 | 726 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 10 | 890 | 0.126429434 | 471 | 722 | 7039.5 | 726 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 11 | 781 | 0.110023244 | 454 | 728 | 7098.5 | 726 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 12 | 716 | 0.101002976 | 510 | 727 | 7088.9 | 726 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 13 | 737 | 0.103944826 | 475 | 727 | 7090.3 | 726 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 14 | 875 | 0.122924335 | 469 | 730 | 7118.2 | 726 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 15 | 1071 | 0.150505902 | 476 | 730 | 7116 | 726 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 16 | 891 | 0.125355244 | 476 | 729 | 7107.8 | 727 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 17 | 546 | 0.088922185 | 343 | 630 | 6140.2 | 630 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 18 | 416 | 0.0777773 | 272 | 548 | 5348.9 | 536 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 19 | 488 | 0.10699408 | 232 | 468 | 4561 | 459 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 20 | 176 | 0.058222237 | 163 | 310 | 3022.9 | 280 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 21 | 163 | 0.058544645 | 155 | 285 | 2784.2 | 253 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 22 | 121 | 0.046046122 | 147 | 269 | 2627.8 | 235 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 23 | 125 | 0.048828125 | 148 | 262 | 2560 | 227 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 0 | 129 | 0.050600141 | 147 | 261 | 2549.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 1 | 128 | 0.050172468 | 150 | 261 | 2551.2 | 226 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 2 | 121 | 0.047397078 | 160 | 261 | 2552.9 | 226 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 3 | 118 | 0.046229187 | 145 | 261 | 2552.5 | 226 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 4 | 116 | 0.045429623 | 153 | 262 | 2553.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 5 | 133 | 0.051337476 | 152 | 265 | 2590.7 | 226 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 6 | 128 | 0.048838185 | 157 | 268 | 2620.9 | 227 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 7 | 126 | 0.050765512 | 151 | 254 | 2482 | 226 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 8 | 127 | 0.04951074 | 156 | 263 | 2565.1 | 227 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 9 | 121 | 0.046671295 | 155 | 266 | 2592.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 10 | 148 | 0.054284038 | 163 | 279 | 2726.4 | 245 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 11 | 338 | 0.09448995 | 203 | 367 | 3577.1 | 334 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 12 | 930 | 0.148042025 | 408 | 644 | 6282 | 635 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 13 | 915 | 0.122649223 | 507 | 765 | 7460.3 | 763 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 14 | 1375 | 0.185344944 | 519 | 761 | 7418.6 | 759 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 15 | 1222 | 0.160781012 | 539 | 779 | 7600.4 | 771 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 16 | 1025 | 0.135251039 | 538 | 777 | 7578.5 | 771 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 17 | 1009 | 0.132553862 | 532 | 781 | 7612 | 772 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 18 | 999 | 0.132653468 | 542 | 772 | 7530.9 | 771 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 19 | 1182 | 0.156647583 | 543 | 774 | 7545.6 | 771 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 20 | 942 | 0.136598947 | 441 | 707 | 6896.1 | 702 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 21 | 1040 | 0.197279815 | 284 | 540 | 5271.7 | 521 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 22 | 666 | 0.142728559 | 256 | 478 | 4666.2 | 452 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 23 | 512 | 0.113977872 | 242 | 460 | 4492.1 | 432 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 0 | 300 | 0.082151268 | 200 | 374 | 3651.8 | 341 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 1 | 159 | 0.056557465 | 171 | 288 | 2811.3 | 255 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 2 | 167 | 0.058303949 | 180 | 293 | 2864.3 | 254 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 3 | 139 | 0.049924574 | 169 | 285 | 2784.2 | 249 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 4 | 134 | 0.047793987 | 173 | 287 | 2803.7 | 253 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 5 | 418 | 0.102950594 | 231 | 416 | 4060.2 | 390 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 6 | 1003 | 0.173824131 | 328 | 592 | 5770.2 | 566 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 7 | 965 | 0.137101128 | 457 | 722 | 7038.6 | 714 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 8 | 750 | 0.105986095 | 474 | 726 | 7076.4 | 726 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 9 | 880 | 0.124517142 | 452 | 725 | 7067.3 | 726 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 10 | 1005 | 0.139865006 | 503 | 737 | 7185.5 | 726 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 11 | 916 | 0.127775918 | 501 | 735 | 7168.8 | 727 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 12 | 876 | 0.121810471 | 503 | 737 | 7191.5 | 726 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 13 | 890 | 0.124228804 | 501 | 735 | 7164.2 | 727 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 14 | 965 | 0.134778419 | 501 | 734 | 7159.9 | 726 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 15 | 1036 | 0.144321854 | 502 | 736 | 7178.4 | 726 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 16 | 934 | 0.129687999 | 504 | 738 | 7201.9 | 727 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 17 | 894 | 0.124109783 | 504 | 739 | 7203.3 | 726 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 18 | 1052 | 0.140833757 | 552 | 766 | 7469.8 | 754 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 19 | 1044 | 0.137965667 | 552 | 776 | 7567.1 | 768 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 20 | 648 | 0.102684372 | 347 | 647 | 6310.6 | 635 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 21 | 624 | 0.10904325 | 303 | 587 | 5722.5 | 571 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 22 | 428 | 0.099041977 | 224 | 443 | 4321.4 | 419 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 23 | 140 | 0.050182809 | 86 | 286 | 2789.8 | 251 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 0 | 98 | 0.037097324 | 81 | 271 | 2641.7 | 226 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 1 | 105 | 0.03990878 | 144 | 269 | 2631 | 227 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 2 | 102 | 0.038909022 | 175 | 269 | 2621.5 | 226 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 3 | 101 | 0.038554033 | 167 | 268 | 2619.7 | 226 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 4 | 96 | 0.036701457 | 162 | 268 | 2615.7 | 227 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 5 | 88 | 0.033820138 | 163 | 267 | 2602 | 227 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 6 | 114 | 0.041332802 | 171 | 283 | 2758.1 | 249 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 7 | 166 | 0.053405398 | 192 | 318 | 3108.3 | 283 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 8 | 231 | 0.063720622 | 221 | 371 | 3625.2 | 340 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 9 | 485 | 0.107208382 | 248 | 464 | 4523.9 | 436 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 10 | 893 | 0.158956194 | 320 | 576 | 5617.9 | 556 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 11 | 1571 | 0.216182744 | 486 | 745 | 7267 | 733 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 12 | 1321 | 0.174878869 | 536 | 775 | 7553.8 | 770 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 13 | 1104 | 0.144745123 | 541 | 782 | 7627.2 | 770 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 14 | 858 | 0.112727129 | 540 | 780 | 7611.3 | 770 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 15 | 881 | 0.116552892 | 544 | 775 | 7558.8 | 768 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 16 | 923 | 0.121549726 | 539 | 779 | 7593.6 | 771 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 17 | 958 | 0.126761495 | 536 | 775 | 7557.5 | 769 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 18 | 973 | 0.127896736 | 524 | 780 | 7607.7 | 770 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 19 | 866 | 0.117401442 | 486 | 756 | 7376.4 | 750 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 20 | 575 | 0.094316411 | 347 | 625 | 6096.5 | 609 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 21 | 576 | 0.10742661 | 289 | 550 | 5361.8 | 526 |

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|----|---------------|---|------|------------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 22 | 339 | 0.0828628 | 216 | 419 | 4091.1 | 389 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 23 | 83 | 0.030513584 | 155 | 279 | 2720.1 | 239 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 0 | 95 | 0.036273387 | 157 | 268 | 2619 | 227 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 1 | 83 | 0.031749675 | 159 | 268 | 2614.2 | 227 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 2 | 86 | 0.033446117 | 156 | 263 | 2571.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 3 | 77 | 0.030018323 | 156 | 263 | 2565.1 | 226 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 4 | 84 | 0.032857422 | 155 | 262 | 2556.5 | 227 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 5 | 79 | 0.031162479 | 157 | 260 | 2535.1 | 226 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 6 | 92 | 0.035687963 | 157 | 264 | 2577.9 | 226 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 7 | 109 | 0.038966146 | 167 | 287 | 2797.3 | 253 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 8 | 176 | 0.051679587 | 204 | 349 | 3405.6 | 318 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 9 | 426 | 0.089207187 | 262 | 490 | 4775.4 | 461 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 10 | 709 | 0.140803114 | 271 | 516 | 5035.4 | 492 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 11 | 985 | 0.141655282 | 458 | 713 | 6953.5 | 700 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 12 | 790 | 0.104627447 | 521 | 774 | 7550.6 | 768 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 13 | 936 | 0.122672049 | 549 | 782 | 7630.1 | 771 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 14 | 961 | 0.127328616 | 535 | 774 | 7547.4 | 769 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 15 | 951 | 0.125225498 | 546 | 779 | 7594.3 | 770 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 16 | 924 | 0.121716679 | 539 | 778 | 7591.4 | 771 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 17 | 860 | 0.113631859 | 537 | 776 | 7568.3 | 772 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 18 | 954 | 0.125835938 | 545 | 777 | 7581.3 | 771 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 19 | 977 | 0.128410704 | 547 | 780 | 7608.4 | 770 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 20 | 646 | 0.098689236 | 373 | 671 | 6545.8 | 657 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 21 | 442 | 0.086958233 | 269 | 521 | 5082.9 | 501 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 22 | 247 | 0.072011662 | 137 | 351 | 3430 | 317 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 23 | 106 | 0.040758257 | 83 | 266 | 2600.7 | 226 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 0 | 106 | 0.040882444 | 80 | 266 | 2592.8 | 227 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 1 | 96 | 0.037085683 | 181 | 265 | 2588.6 | 227 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 2 | 104 | 0.040330399 | 162 | 264 | 2578.7 | 227 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 3 | 91 | 0.035219444 | 155 | 265 | 2583.8 | 226 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 4 | 103 | 0.03979446 | 157 | 265 | 2588.3 | 227 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 5 | 152 | 0.051926756 | 178 | 300 | 2927.2 | 260 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 6 | 181 | 0.057451198 | 176 | 323 | 3150.5 | 286 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 7 | 357 | 0.089628681 | 227 | 408 | 3983.1 | 378 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 8 | 451 | 0.093066447 | 271 | 497 | 4846 | 476 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 9 | 642 | 0.115148689 | 323 | 572 | 5575.4 | 553 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 10 | 448 | 0.074023893 | 369 | 620 | 6052.1 | 609 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 11 | 897 | 0.121850166 | 471 | 755 | 7361.5 | 746 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 12 | 826 | 0.110340774 | 509 | 768 | 7485.9 | 765 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 13 | 595 | 0.078786033 | 521 | 774 | 7552.1 | 767 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 14 | 621 | 0.081997518 | 545 | 777 | 7573.4 | 769 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 15 | 820 | 0.108951278 | 534 | 772 | 7526.3 | 768 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 16 | 977 | 0.128124426 | 526 | 782 | 7625.4 | 769 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 17 | 936 | 0.12295728 | 548 | 781 | 7612.4 | 770 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 18 | 868 | 0.114300764 | 554 | 779 | 7594 | 770 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 19 | 889 | 0.116899853 | 547 | 780 | 7604.8 | 770 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 20 | 925 | 0.122385256 | 551 | 775 | 7558.1 | 768 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 21 | 677 | 0.104193921 | 396 | 666 | 6497.5 | 656 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 22 | 535 | 0.099545996 | 295 | 551 | 5374.4 | 527 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 23 | 468 | 0.101386482 | 263 | 473 | 4616 | 454 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 0 | 380 | 0.086908792 | 240 | 448 | 4372.4 | 430 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 1 | 173 | 0.051457466 | 184 | 344 | 3362 | 320 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 2 | 147 | 0.052436327 | 179 | 287 | 2803.4 | 252 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 3 | 141 | 0.050078136 | 180 | 288 | 2815.6 | 252 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 4 | 150 | 0.050857802 | 191 | 302 | 2949.4 | 266 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 5 | 352 | 0.087031772 | 242 | 415 | 4044.5 | 387 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 6 | 311 | 0.072818376 | 230 | 438 | 4270.9 | 421 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 7 | 190 | 0.050214071 | 223 | 388 | 3783.8 | 358 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 8 | 240 | 0.062189055 | 223 | 396 | 3859.2 | 364 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 9 | 297 | 0.071820666 | 235 | 424 | 4135.3 | 395 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 10 | 198 | 0.052812675 | 213 | 384 | 3749.1 | 357 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 11 | 362 | 0.080718889 | 251 | 460 | 4484.7 | 434 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 12 | 331 | 0.074495859 | 248 | 455 | 4443.2 | 429 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 13 | 650 | 0.114808535 | 322 | 580 | 5661.6 | 559 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 14 | 1161 | 0.163224564 | 462 | 729 | 7112.9 | 729 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 15 | 790 | 0.10563192 | 523 | 767 | 7478.8 | 766 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 16 | 856 | 0.114217093 | 532 | 768 | 7494.5 | 766 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 17 | 992 | 0.131664521 | 527 | 773 | 7534.3 | 767 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 18 | 923 | 0.122682262 | 541 | 771 | 7523.5 | 767 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 19 | 782 | 0.108859068 | 502 | 737 | 7183.6 | 740 |

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|----|---------------|---|------|------------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 20 | 646 | 0.103308759 | 381 | 641 | 6253.1 | 636 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 21 | 700 | 0.125829124 | 311 | 570 | 5563.1 | 558 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 22 | 454 | 0.099657564 | 259 | 467 | 4555.6 | 455 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 23 | 451 | 0.122851461 | 194 | 376 | 3671.1 | 355 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 0 | 83 | 0.030121575 | 159 | 282 | 2755.5 | 251 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 1 | 71 | 0.027431132 | 163 | 265 | 2588.3 | 227 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 2 | 80 | 0.031030604 | 162 | 264 | 2578.1 | 226 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 3 | 61 | 0.023622352 | 162 | 264 | 2582.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 4 | 78 | 0.029198173 | 173 | 274 | 2671.4 | 238 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 5 | 315 | 0.075713874 | 266 | 426 | 4160.4 | 400 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 6 | 508 | 0.092739654 | 312 | 562 | 5477.7 | 544 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 7 | 449 | 0.081923842 | 317 | 562 | 5480.7 | 554 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 8 | 460 | 0.082128191 | 324 | 574 | 5601 | 562 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 9 | 652 | 0.106313592 | 374 | 629 | 6132.8 | 619 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 10 | 650 | 0.101038363 | 398 | 660 | 6433.2 | 652 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 11 | 730 | 0.0966158 | 528 | 775 | 7555.7 | 766 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 12 | 572 | 0.07528396 | 547 | 779 | 7597.9 | 771 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 13 | 499 | 0.065903298 | 537 | 776 | 7571.7 | 771 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 14 | 556 | 0.073501223 | 506 | 776 | 7564.5 | 769 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 15 | 761 | 0.100476637 | 507 | 777 | 7573.9 | 770 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 16 | 992 | 0.131479542 | 535 | 774 | 7544.9 | 770 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 17 | 852 | 0.113257208 | 556 | 771 | 7522.7 | 770 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 18 | 748 | 0.098251698 | 555 | 781 | 7613.1 | 770 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 19 | 606 | 0.083137836 | 517 | 747 | 7289.1 | 744 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 20 | 489 | 0.076988475 | 406 | 651 | 6351.6 | 645 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 21 | 349 | 0.068294783 | 281 | 524 | 5110.2 | 511 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 22 | 330 | 0.070594275 | 238 | 479 | 4674.6 | 457 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 23 | 125 | 0.037560096 | 156 | 341 | 3328 | 308 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 0 | 75 | 0.028327542 | 145 | 271 | 2647.6 | 227 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 1 | 72 | 0.027303754 | 147 | 270 | 2637 | 227 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 2 | 67 | 0.02586573 | 142 | 265 | 2590.3 | 227 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 3 | 81 | 0.031116745 | 153 | 267 | 2603.1 | 226 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 4 | 92 | 0.034407959 | 155 | 274 | 2673.8 | 235 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 5 | 288 | 0.073330957 | 212 | 403 | 3927.4 | 373 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 6 | 802 | 0.127512083 | 377 | 645 | 6289.6 | 630 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 7 | 830 | 0.112327618 | 495 | 758 | 7389.1 | 764 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 8 | 713 | 0.09602435 | 527 | 761 | 7425.2 | 765 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 9 | 857 | 0.113900666 | 534 | 772 | 7524.1 | 766 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 10 | 1009 | 0.135213004 | 567 | 765 | 7462.3 | 766 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 11 | 1005 | 0.134988113 | 558 | 763 | 7445.1 | 765 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 12 | 942 | 0.125661993 | 562 | 769 | 7496.3 | 766 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 13 | 860 | 0.115304686 | 551 | 765 | 7458.5 | 766 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 14 | 763 | 0.101890925 | 546 | 768 | 7488.4 | 765 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 15 | 674 | 0.090447945 | 558 | 764 | 7451.8 | 764 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 16 | 649 | 0.086091397 | 565 | 773 | 7538.5 | 765 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 17 | 643 | 0.086587665 | 564 | 761 | 7426 | 768 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 18 | 829 | 0.11034648 | 563 | 770 | 7512.7 | 769 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 19 | 889 | 0.117661073 | 559 | 775 | 7555.6 | 770 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 20 | 713 | 0.097521611 | 504 | 750 | 7311.2 | 746 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 21 | 511 | 0.07994493 | 389 | 655 | 6391.9 | 646 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 22 | 474 | 0.078397645 | 356 | 620 | 6046.1 | 608 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 23 | 271 | 0.058243246 | 246 | 477 | 4652.9 | 464 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 0 | 224 | 0.056997455 | 227 | 403 | 3930 | 380 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 1 | 109 | 0.038842563 | 168 | 287 | 2806.2 | 254 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 2 | 104 | 0.036969891 | 168 | 288 | 2813.1 | 252 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 3 | 89 | 0.031551333 | 172 | 289 | 2820.8 | 251 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 4 | 89 | 0.031527861 | 172 | 289 | 2822.9 | 255 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 5 | 244 | 0.06416831 | 232 | 390 | 3802.5 | 361 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 6 | 530 | 0.098976619 | 321 | 549 | 5354.8 | 532 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 7 | 835 | 0.128264209 | 410 | 667 | 6510 | 655 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 8 | 1069 | 0.143775554 | 535 | 762 | 7435.2 | 760 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 9 | 842 | 0.113771484 | 547 | 759 | 7400.8 | 760 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 10 | 874 | 0.117103236 | 544 | 765 | 7463.5 | 761 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 11 | 902 | 0.121212121 | 528 | 763 | 7441.5 | 761 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 12 | 920 | 0.124482451 | 539 | 758 | 7390.6 | 762 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 13 | 954 | 0.127420863 | 584 | 768 | 7487 | 761 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 14 | 1397 | 0.186794673 | 575 | 767 | 7478.8 | 760 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 15 | 1065 | 0.142878225 | 559 | 764 | 7453.9 | 759 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 16 | 1019 | 0.136556733 | 544 | 765 | 7462.1 | 761 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 17 | 982 | 0.130302668 | 550 | 773 | 7536.3 | 766 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 18 | 1013 | 0.134046129 | 551 | 775 | 7557.1 | 766 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 19 | 1061 | 0.140768455 | 557 | 773 | 7537.2 | 767 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 20 | 1124 | 0.148722495 | 559 | 775 | 7557.7 | 767 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 21 | 1020 | 0.139816046 | 518 | 748 | 7295.3 | 743 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 22 | 412 | 0.064516129 | 402 | 655 | 6386 | 651 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 23 | 284 | 0.058665565 | 271 | 496 | 4841 | 487 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 0 | 131 | 0.037049607 | 190 | 362 | 3535.8 | 339 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 1 | 77 | 0.029277567 | 157 | 269 | 2630 | 234 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 2 | 88 | 0.033634001 | 159 | 268 | 2616.4 | 227 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 3 | 109 | 0.04148588 | 162 | 269 | 2627.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 4 | 133 | 0.050722703 | 162 | 269 | 2622.1 | 227 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 5 | 187 | 0.056685562 | 191 | 338 | 3298.9 | 302 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 6 | 249 | 0.064977428 | 226 | 393 | 3832.1 | 361 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 7 | 445 | 0.092594519 | 293 | 493 | 4805.9 | 467 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 8 | 963 | 0.146308113 | 460 | 675 | 6582 | 662 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 9 | 955 | 0.125636404 | 585 | 779 | 7601.3 | 770 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 10 | 760 | 0.100771699 | 580 | 773 | 7541.8 | 770 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 11 | 1036 | 0.137861287 | 571 | 771 | 7514.8 | 769 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 12 | 1571 | 0.208209084 | 565 | 774 | 7545.3 | 769 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 13 | 1257 | 0.165216477 | 563 | 780 | 7608.2 | 769 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 14 | 1264 | 0.167441614 | 566 | 774 | 7548.9 | 768 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 15 | 1246 | 0.164755973 | 574 | 775 | 7562.7 | 769 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 16 | 1308 | 0.172059984 | 585 | 780 | 7602 | 770 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 17 | 1406 | 0.18574788 | 575 | 776 | 7569.4 | 771 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 18 | 1498 | 0.197505472 | 576 | 778 | 7584.6 | 770 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 19 | 1266 | 0.165682951 | 573 | 784 | 7641.1 | 772 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 20 | 1025 | 0.134104379 | 565 | 784 | 7643.3 | 770 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 21 | 906 | 0.120600607 | 548 | 770 | 7512.4 | 764 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 22 | 337 | 0.051574791 | 418 | 670 | 6534.2 | 660 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 23 | 225 | 0.040915042 | 302 | 564 | 5499.2 | 553 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 0 | 110 | 0.029284916 | 202 | 385 | 3756.2 | 361 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 1 | 55 | 0.020546154 | 163 | 274 | 2676.9 | 234 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 2 | 59 | 0.022607096 | 164 | 267 | 2609.8 | 227 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 3 | 66 | 0.025341729 | 166 | 267 | 2604.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 4 | 73 | 0.028123435 | 166 | 266 | 2595.7 | 227 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 5 | 88 | 0.034062319 | 167 | 265 | 2583.5 | 226 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 6 | 123 | 0.047617204 | 170 | 265 | 2583.1 | 227 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 7 | 476 | 0.127555806 | 238 | 382 | 3731.7 | 353 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 8 | 1039 | 0.182101795 | 359 | 585 | 5705.6 | 570 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 9 | 1554 | 0.208154736 | 552 | 766 | 7465.6 | 753 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 10 | 1204 | 0.159749496 | 557 | 773 | 7536.8 | 771 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 11 | 1000 | 0.133044184 | 533 | 771 | 7516.3 | 769 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 12 | 883 | 0.118810549 | 527 | 762 | 7432 | 769 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 13 | 1020 | 0.136977103 | 528 | 764 | 7446.5 | 768 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 14 | 1187 | 0.157686381 | 534 | 772 | 7527.6 | 770 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 15 | 516 | 0.068615196 | 533 | 771 | 7520.2 | 770 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 16 | 1076 | 0.141660962 | 554 | 779 | 7595.6 | 770 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 17 | 1366 | 0.180733253 | 544 | 775 | 7558.1 | 770 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 18 | 1213 | 0.160017941 | 538 | 777 | 7580.4 | 770 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 19 | 1056 | 0.138529956 | 541 | 782 | 7622.9 | 771 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 20 | 1000 | 0.131166463 | 541 | 782 | 7623.9 | 773 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 21 | 303 | 0.040372009 | 532 | 770 | 7505.2 | 764 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 22 | 286 | 0.048122224 | 350 | 609 | 5943.2 | 599 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 23 | 107 | 0.028226232 | 204 | 388 | 3790.8 | 372 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 0 | 61 | 0.021260282 | 152 | 294 | 2869.2 | 261 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 1 | 55 | 0.021224049 | 155 | 265 | 2591.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 2 | 57 | 0.022155712 | 154 | 264 | 2572.7 | 226 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 3 | 64 | 0.024803317 | 157 | 264 | 2580.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 4 | 99 | 0.034227631 | 173 | 296 | 2892.4 | 262 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 5 | 398 | 0.096489527 | 239 | 423 | 4124.8 | 395 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 6 | 559 | 0.120687422 | 259 | 475 | 4631.8 | 452 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 7 | 622 | 0.141344362 | 255 | 451 | 4400.6 | 431 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 8 | 953 | 0.16970582 | 342 | 576 | 5615.6 | 561 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 9 | 885 | 0.133086709 | 438 | 682 | 6649.8 | 668 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 10 | 1186 | 0.16015989 | 533 | 759 | 7405.1 | 752 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 11 | 909 | 0.120601815 | 535 | 773 | 7537.2 | 770 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 12 | 1655 | 0.220094421 | 541 | 771 | 7519.5 | 770 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 13 | 1593 | 0.210806304 | 544 | 775 | 7556.7 | 770 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 14 | 1800 | 0.23930124 | 549 | 771 | 7521.9 | 767 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 15 | 2419 | 0.318532564 | 554 | 779 | 7594.2 | 770 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 16 | 1679 | 0.221805356 | 552 | 776 | 7569.7 | 770 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 17 | 1271 | 0.167733421 | 553 | 777 | 7577.5 | 772 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 18 | 758 | 0.099891937 | 561 | 778 | 7588.2 | 773 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 19 | 466 | 0.061160474 | 563 | 781 | 7619.3 | 772 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 20 | 1057 | 0.13906065 | 562 | 779 | 7601 | 769 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 21 | 1124 | 0.148791401 | 566 | 775 | 7554.2 | 769 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 22 | 626 | 0.094447797 | 430 | 680 | 6628 | 674 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 23 | 376 | 0.074873551 | 261 | 515 | 5021.8 | 499 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 0 | 268 | 0.071655838 | 198 | 383 | 3740.1 | 360 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 1 | 188 | 0.067696518 | 158 | 284 | 2777.1 | 249 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 2 | 237 | 0.090395911 | 162 | 269 | 2621.8 | 226 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 3 | 281 | 0.106779146 | 160 | 270 | 2631.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 4 | 326 | 0.115611036 | 174 | 289 | 2819.8 | 251 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 5 | 777 | 0.170189464 | 269 | 468 | 4565.5 | 440 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 6 | 1354 | 0.204859745 | 436 | 678 | 6609.4 | 654 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 7 | 1441 | 0.194197 | 563 | 761 | 7420.3 | 753 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 8 | 1124 | 0.14997665 | 569 | 768 | 7494.5 | 766 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 9 | 1026 | 0.135793319 | 2032 | 775 | 7555.6 | 771 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 10 | 990 | 0.130992233 | 3000 | 775 | 7557.7 | 770 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 11 | 966 | 0.128285149 | 3064 | 772 | 7530.1 | 769 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 12 | 1879 | 0.249356371 | 2773 | 773 | 7535.4 | 768 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 13 | 2438 | 0.322465445 | 2600 | 775 | 7560.5 | 770 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 14 | 2558 | 0.337542721 | 3069 | 777 | 7578.3 | 770 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 15 | 1848 | 0.244279653 | 3109 | 776 | 7565.1 | 770 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 16 | 1368 | 0.181254472 | 3124 | 774 | 7547.4 | 771 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 17 | 1224 | 0.16237298 | 3135 | 773 | 7538.2 | 770 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 18 | 1137 | 0.150178312 | 3142 | 776 | 7571 | 769 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 19 | 1160 | 0.153171711 | 3135 | 777 | 7573.2 | 770 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 20 | 1287 | 0.169574154 | 3142 | 778 | 7589.6 | 771 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 21 | 1190 | 0.157330407 | 3146 | 776 | 7563.7 | 769 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 22 | 585 | 0.088063948 | 2511 | 681 | 6642.9 | 677 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 23 | 145 | 0.0311647 | 1391 | 477 | 4652.7 | 460 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 0 | 97 | 0.027446098 | 1046 | 362 | 3534.2 | 334 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 1 | 153 | 0.058776075 | 937 | 267 | 2603.1 | 229 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 2 | 152 | 0.058562897 | 950 | 266 | 2595.5 | 226 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 3 | 135 | 0.051975052 | 994 | 266 | 2597.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 4 | 153 | 0.050073638 | 1106 | 313 | 3055.5 | 281 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 5 | 442 | 0.093481663 | 1531 | 485 | 4728.2 | 461 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 6 | 913 | 0.168820843 | 1822 | 554 | 5408.1 | 552 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 7 | 748 | 0.162347528 | 1446 | 472 | 4607.4 | 460 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 8 | 911 | 0.174317369 | 1693 | 536 | 5226.1 | 524 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 9 | 738 | 0.128390251 | 1850 | 589 | 5748.1 | 576 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 10 | 189 | 0.038137902 | 1531 | 508 | 4955.7 | 495 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 11 | 420 | 0.076600401 | 1738 | 562 | 5483 | 548 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 12 | 1743 | 0.238979914 | 2742 | 748 | 7293.5 | 746 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 13 | 1267 | 0.170185902 | 2881 | 763 | 7444.8 | 766 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 14 | 1115 | 0.149568064 | 2974 | 764 | 7454.8 | 768 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 15 | 1046 | 0.141672987 | 2960 | 757 | 7383.2 | 768 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 16 | 1018 | 0.137653136 | 2995 | 758 | 7395.4 | 769 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 17 | 230 | 0.037339481 | 2118 | 632 | 6159.7 | 642 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 18 | 251 | 0.039204661 | 2317 | 656 | 6402.3 | 667 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 19 | 297 | 0.053852151 | 1831 | 565 | 5515.1 | 567 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 20 | 246 | 0.056504961 | 1441 | 446 | 4353.6 | 435 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 21 | 115 | 0.043103448 | 941 | 273 | 2668 | 252 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 22 | 117 | 0.046003224 | 867 | 260 | 2543.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 23 | 88 | 0.034953924 | 873 | 258 | 2517.6 | 227 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 0 | 85 | 0.033852404 | 871 | 257 | 2510.9 | 226 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 1 | 91 | 0.036095355 | 892 | 258 | 2521.1 | 226 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 2 | 92 | 0.035952949 | 895 | 262 | 2558.9 | 227 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 3 | 84 | 0.03321865 | 900 | 259 | 2528.7 | 226 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 4 | 79 | 0.031437781 | 904 | 257 | 2512.9 | 227 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 5 | 155 | 0.046968274 | 1036 | 338 | 3300.1 | 311 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 6 | 174 | 0.047358537 | 1094 | 377 | 3674.1 | 356 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 7 | 168 | 0.045727973 | 1072 | 376 | 3673.9 | 357 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 8 | 207 | 0.053782997 | 1120 | 394 | 3848.8 | 376 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 9 | 189 | 0.048012194 | 1149 | 403 | 3936.5 | 384 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 10 | 177 | 0.044927279 | 1158 | 404 | 3939.7 | 387 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 11 | 267 | 0.061368024 | 1257 | 446 | 4350.8 | 429 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 12 | 223 | 0.052807313 | 1266 | 433 | 4222.9 | 419 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 13 | 183 | 0.045900324 | 1220 | 409 | 3986.9 | 391 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 14 | 314 | 0.073567312 | 1289 | 437 | 4268.2 | 420 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 15 | 230 | 0.056495787 | 1241 | 417 | 4071.1 | 401 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 16 | 177 | 0.04869192 | 1130 | 373 | 3635.1 | 352 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 17 | 386 | 0.087095828 | 1360 | 454 | 4431.9 | 435 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 18 | 707 | 0.114920109 | 2128 | 631 | 6152.1 | 621 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 19 | 455 | 0.080742476 | 1910 | 578 | 5635.2 | 574 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 20 | 207 | 0.049634336 | 638 | 427 | 4170.5 | 417 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 21 | 293 | 0.077235344 | 193 | 389 | 3793.6 | 369 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 22 | 147 | 0.045578569 | 180 | 330 | 3225.2 | 301 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 23 | 160 | 0.057059306 | 176 | 287 | 2804.1 | 253 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 0 | 142 | 0.050721532 | 173 | 287 | 2799.6 | 254 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 1 | 146 | 0.052325998 | 175 | 286 | 2790.2 | 253 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 2 | 130 | 0.047296806 | 175 | 282 | 2748.6 | 252 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 3 | 150 | 0.053225463 | 180 | 289 | 2818.2 | 253 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 4 | 207 | 0.065120961 | 193 | 326 | 3178.7 | 298 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 5 | 228 | 0.058195926 | 219 | 402 | 3917.8 | 375 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 6 | 339 | 0.074337215 | 255 | 467 | 4560.3 | 449 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 7 | 357 | 0.075392803 | 260 | 485 | 4735.2 | 468 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 8 | 365 | 0.074048527 | 256 | 505 | 4929.2 | 492 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 9 | 628 | 0.114982515 | 349 | 560 | 5461.7 | 552 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 10 | 491 | 0.089305202 | 362 | 564 | 5498 | 556 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 11 | 447 | 0.078994804 | 362 | 580 | 5658.6 | 572 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 12 | 605 | 0.100468299 | 463 | 617 | 6021.8 | 609 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 13 | 720 | 0.112628467 | 517 | 655 | 6392.7 | 642 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 14 | 712 | 0.107816712 | 435 | 677 | 6603.8 | 669 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 15 | 2114 | 0.280308153 | 565 | 773 | 7541.7 | 769 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 16 | 1164 | 0.171792904 | 447 | 695 | 6775.6 | 698 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 17 | 341 | 0.06699279 | 264 | 522 | 5090.1 | 512 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 18 | 325 | 0.071175157 | 228 | 468 | 4566.2 | 452 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 19 | 188 | 0.059616299 | 164 | 323 | 3153.5 | 304 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 20 | 178 | 0.063548733 | 151 | 287 | 2801 | 253 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 21 | 179 | 0.060073162 | 160 | 305 | 2979.7 | 269 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 22 | 163 | 0.057082823 | 159 | 293 | 2855.5 | 259 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 23 | 148 | 0.053033289 | 159 | 286 | 2790.7 | 252 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 0 | 147 | 0.052803621 | 161 | 285 | 2783.9 | 252 |

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|----|---------------|---|------|------------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 1 | 146 | 0.05255958 | 163 | 285 | 2777.8 | 251 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 2 | 302 | 0.108970196 | 160 | 284 | 2771.4 | 251 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 3 | 315 | 0.114662202 | 164 | 281 | 2747.2 | 251 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 4 | 269 | 0.096578466 | 164 | 285 | 2785.3 | 251 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 5 | 166 | 0.059594328 | 167 | 285 | 2785.5 | 253 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 6 | 178 | 0.063971249 | 169 | 285 | 2782.5 | 254 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 7 | 220 | 0.072268576 | 182 | 312 | 3044.2 | 281 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 8 | 485 | 0.113833732 | 255 | 437 | 4260.6 | 418 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 9 | 450 | 0.096166175 | 262 | 480 | 4679.4 | 460 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 10 | 264 | 0.068104427 | 209 | 397 | 3876.4 | 377 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 11 | 269 | 0.072836564 | 199 | 378 | 3693.2 | 353 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 12 | 399 | 0.091285548 | 236 | 448 | 4370.9 | 427 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 13 | 578 | 0.113271145 | 290 | 523 | 5102.8 | 506 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 14 | 762 | 0.13361623 | 347 | 585 | 5702.9 | 572 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 15 | 866 | 0.136700868 | 405 | 650 | 6335 | 641 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 16 | 560 | 0.099178237 | 338 | 579 | 5646.4 | 567 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 17 | 389 | 0.082006957 | 256 | 486 | 4743.5 | 476 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 18 | 463 | 0.102422298 | 257 | 463 | 4520.5 | 446 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 19 | 314 | 0.080798724 | 229 | 398 | 3886.2 | 379 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 20 | 172 | 0.056395292 | 186 | 312 | 3049.9 | 284 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 21 | 196 | 0.063287052 | 195 | 317 | 3097 | 282 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 22 | 138 | 0.048610377 | 190 | 291 | 2838.9 | 258 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 23 | 134 | 0.048450663 | 188 | 283 | 2765.7 | 252 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 0 | 176 | 0.063334413 | 197 | 285 | 2778.9 | 252 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 1 | 182 | 0.065502969 | 200 | 285 | 2778.5 | 252 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 2 | 167 | 0.06006114 | 211 | 285 | 2780.5 | 252 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 3 | 152 | 0.054625171 | 217 | 285 | 2782.6 | 252 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 4 | 153 | 0.054966768 | 217 | 285 | 2783.5 | 252 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 5 | 134 | 0.048211844 | 216 | 285 | 2779.4 | 251 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 6 | 147 | 0.052875796 | 205 | 285 | 2780.1 | 251 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 7 | 181 | 0.057072586 | 222 | 325 | 3171.4 | 287 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 8 | 301 | 0.078655796 | 225 | 392 | 3826.8 | 364 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 9 | 301 | 0.079713983 | 241 | 387 | 3776 | 357 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 10 | 164 | 0.055302647 | 213 | 304 | 2965.5 | 267 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 11 | 258 | 0.070665571 | 241 | 374 | 3651 | 341 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 12 | 417 | 0.091577907 | 286 | 467 | 4553.5 | 444 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 13 | 408 | 0.087136664 | 276 | 480 | 4682.3 | 461 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 14 | 517 | 0.0919667 | 337 | 576 | 5621.6 | 563 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 15 | 712 | 0.118276355 | 379 | 617 | 6019.8 | 608 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 16 | 928 | 0.146321466 | 405 | 650 | 6342.2 | 644 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 17 | 661 | 0.115432304 | 326 | 587 | 5726.3 | 580 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 18 | 991 | 0.154344542 | 398 | 658 | 6420.7 | 650 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 19 | 653 | 0.118128041 | 309 | 567 | 5527.9 | 563 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 20 | 177 | 0.054371199 | 156 | 334 | 3255.4 | 311 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 21 | 245 | 0.080343674 | 173 | 312 | 3049.4 | 279 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 22 | 170 | 0.060947191 | 170 | 286 | 2789.3 | 251 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 23 | 159 | 0.057196302 | 166 | 285 | 2779.9 | 251 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 0 | 162 | 0.057966866 | 173 | 286 | 2794.7 | 251 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 1 | 155 | 0.055593415 | 175 | 286 | 2788.1 | 251 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 2 | 141 | 0.050597481 | 175 | 285 | 2786.7 | 252 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 3 | 142 | 0.050640134 | 176 | 287 | 2804.1 | 251 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 4 | 168 | 0.057520457 | 184 | 299 | 2920.7 | 264 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 5 | 341 | 0.08833968 | 239 | 396 | 3860.1 | 367 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 6 | 633 | 0.117612085 | 312 | 552 | 5382.1 | 531 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 7 | 640 | 0.111170943 | 385 | 590 | 5756.9 | 577 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 8 | 474 | 0.084944714 | 390 | 572 | 5580.1 | 563 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 9 | 576 | 0.099289802 | 348 | 595 | 5801.2 | 584 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 10 | 444 | 0.085833591 | 294 | 530 | 5172.8 | 516 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 11 | 700 | 0.119112442 | 364 | 603 | 5876.8 | 588 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 12 | 810 | 0.115336969 | 491 | 720 | 7022.9 | 714 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 13 | 554 | 0.074951971 | 569 | 758 | 7391.4 | 764 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 14 | 483 | 0.064573919 | 561 | 767 | 7479.8 | 766 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 15 | 791 | 0.105303797 | 555 | 770 | 7511.6 | 766 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 16 | 1174 | 0.156433216 | 570 | 770 | 7504.8 | 771 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 17 | 898 | 0.119158196 | 580 | 773 | 7536.2 | 770 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 18 | 827 | 0.109245585 | 567 | 776 | 7570.1 | 771 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 19 | 922 | 0.123537845 | 559 | 765 | 7463.3 | 768 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 20 | 453 | 0.072012209 | 383 | 645 | 6290.6 | 637 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 21 | 751 | 0.144748762 | 275 | 532 | 5188.3 | 520 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 22 | 446 | 0.11499884 | 209 | 397 | 3878.3 | 374 |

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|----|---------------|---|------|------------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 23 | 207 | 0.073552926 | 185 | 288 | 2814.3 | 253 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 0 | 207 | 0.074119164 | 187 | 286 | 2792.8 | 252 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 1 | 193 | 0.068376674 | 186 | 289 | 2822.6 | 252 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 2 | 177 | 0.063698852 | 180 | 285 | 2778.7 | 252 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 3 | 192 | 0.068686724 | 184 | 286 | 2795.3 | 252 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 4 | 205 | 0.0691843 | 189 | 304 | 2963.1 | 268 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 5 | 478 | 0.120789427 | 249 | 406 | 3957.3 | 378 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 6 | 746 | 0.144361019 | 310 | 530 | 5167.6 | 516 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 7 | 750 | 0.137622254 | 337 | 559 | 5449.7 | 543 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 8 | 746 | 0.134392621 | 338 | 569 | 5550.9 | 556 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 9 | 822 | 0.145830007 | 310 | 578 | 5636.7 | 565 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 10 | 734 | 0.132409712 | 327 | 568 | 5543.4 | 554 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 11 | 941 | 0.153858731 | 360 | 627 | 6116 | 616 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 12 | 877 | 0.138112411 | 374 | 651 | 6349.9 | 645 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 13 | 902 | 0.141193413 | 383 | 655 | 6388.4 | 650 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 14 | 837 | 0.131232361 | 389 | 654 | 6378 | 650 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 15 | 948 | 0.150304414 | 372 | 647 | 6307.2 | 636 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 16 | 726 | 0.127180996 | 319 | 585 | 5708.4 | 572 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 17 | 905 | 0.154515964 | 339 | 600 | 5857 | 584 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 18 | 891 | 0.139099212 | 390 | 657 | 6405.5 | 648 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 19 | 844 | 0.132358937 | 382 | 654 | 6376.6 | 644 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 20 | 794 | 0.125143821 | 374 | 651 | 6344.7 | 648 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 21 | 560 | 0.098425197 | 312 | 583 | 5689.6 | 573 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 22 | 354 | 0.073219161 | 261 | 496 | 4834.8 | 482 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 23 | 96 | 0.02999625 | 166 | 328 | 3200.4 | 304 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 0 | 86 | 0.031037967 | 390 | 284 | 2770.8 | 252 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 1 | 65 | 0.023365326 | 456 | 285 | 2781.9 | 252 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 2 | 73 | 0.026186462 | 412 | 286 | 2787.7 | 252 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 3 | 63 | 0.022556391 | 156 | 286 | 2793 | 251 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 4 | 66 | 0.02268509 | 165 | 298 | 2909.4 | 265 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 5 | 162 | 0.038296062 | 253 | 434 | 4230.2 | 406 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 6 | 238 | 0.04357857 | 327 | 560 | 5461.4 | 544 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 7 | 234 | 0.042547775 | 341 | 564 | 5499.7 | 554 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 8 | 379 | 0.065727862 | 363 | 591 | 5766.2 | 580 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 9 | 590 | 0.092258135 | 428 | 656 | 6395.1 | 646 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 10 | 765 | 0.119183012 | 417 | 658 | 6418.7 | 650 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 11 | 257 | 0.040185761 | 422 | 656 | 6395.3 | 648 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 12 | 69 | 0.012040624 | 355 | 588 | 5730.6 | 576 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 13 | 75 | 0.011827601 | 424 | 650 | 6341.1 | 638 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 14 | 73 | 0.01133963 | 437 | 660 | 6437.6 | 648 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 15 | 76 | 0.011846494 | 436 | 658 | 6415.4 | 648 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 16 | 89 | 0.014006043 | 444 | 652 | 6354.4 | 646 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 17 | 147 | 0.022947595 | 461 | 657 | 6405.9 | 647 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 18 | 328 | 0.051461474 | 490 | 653 | 6373.7 | 648 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 19 | 322 | 0.050525655 | 478 | 653 | 6373 | 646 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 20 | 642 | 0.100513527 | 466 | 655 | 6387.2 | 646 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 21 | 460 | 0.075720165 | 431 | 623 | 6075 | 619 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 22 | 177 | 0.041890517 | 253 | 433 | 4225.3 | 411 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 23 | 118 | 0.042177503 | 179 | 287 | 2797.7 | 256 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 0 | 148 | 0.053387202 | 183 | 284 | 2772.2 | 252 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 1 | 164 | 0.059114011 | 183 | 284 | 2774.3 | 252 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 2 | 146 | 0.051911111 | 185 | 288 | 2812.5 | 251 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 3 | 160 | 0.056787933 | 118 | 289 | 2817.5 | 251 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 4 | 121 | 0.042985541 | 146 | 288 | 2814.9 | 252 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 5 | 190 | 0.057657876 | 240 | 338 | 3295.3 | 304 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 6 | 258 | 0.066397303 | 260 | 398 | 3885.7 | 375 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 7 | 248 | 0.065488922 | 257 | 388 | 3786.9 | 364 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 8 | 616 | 0.126673384 | 330 | 498 | 4862.9 | 478 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 9 | 1057 | 0.167615483 | 491 | 647 | 6306.1 | 633 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 10 | 808 | 0.126590211 | 497 | 654 | 6382.8 | 650 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 11 | 872 | 0.136949728 | 477 | 653 | 6367.3 | 646 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 12 | 929 | 0.146617847 | 456 | 650 | 6336.2 | 638 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 13 | 704 | 0.115519674 | 408 | 625 | 6094.2 | 611 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 14 | 1022 | 0.137682038 | 623 | 761 | 7422.9 | 756 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 15 | 1215 | 0.160400275 | 636 | 777 | 7574.8 | 770 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 16 | 836 | 0.110713813 | 626 | 774 | 7551 | 771 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 17 | 821 | 0.10866544 | 612 | 775 | 7555.3 | 769 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 18 | 903 | 0.119496606 | 1987 | 775 | 7556.7 | 771 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 19 | 880 | 0.116468362 | 498 | 775 | 7555.7 | 770 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 20 | 886 | 0.117074976 | 643 | 776 | 7567.8 | 772 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 21 | 755 | 0.104974834 | 510 | 737 | 7192.2 | 735 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 22 | 277 | 0.046710848 | 343 | 608 | 5930.1 | 599 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 23 | 111 | 0.027688393 | 200 | 411 | 4008.9 | 390 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 0 | 63 | 0.021693468 | 104 | 298 | 2904.1 | 265 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 1 | 72 | 0.025808302 | 86 | 286 | 2789.8 | 251 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 2 | 80 | 0.028685145 | 86 | 286 | 2788.9 | 251 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 3 | 96 | 0.034255129 | 100 | 287 | 2802.5 | 251 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 4 | 136 | 0.047486034 | 191 | 293 | 2864 | 258 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 5 | 237 | 0.067135007 | 233 | 362 | 3530.2 | 330 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 6 | 351 | 0.077350258 | 290 | 465 | 4537.8 | 440 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 7 | 327 | 0.069490193 | 296 | 482 | 4705.7 | 460 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 8 | 689 | 0.112627707 | 422 | 627 | 6117.5 | 608 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 9 | 1749 | 0.233368025 | 644 | 769 | 7494.6 | 762 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 10 | 1140 | 0.152 | 622 | 769 | 7500 | 765 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 11 | 951 | 0.1268 | 615 | 769 | 7500 | 766 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 12 | 886 | 0.117722091 | 624 | 772 | 7526.2 | 767 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 13 | 846 | 0.112598823 | 608 | 770 | 7513.4 | 766 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 14 | 880 | 0.117074209 | 616 | 771 | 7516.6 | 766 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 15 | 957 | 0.126881008 | 610 | 773 | 7542.5 | 766 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 16 | 1028 | 0.136038218 | 619 | 775 | 7556.7 | 766 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 17 | 1066 | 0.141599033 | 617 | 772 | 7528.3 | 767 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 18 | 1100 | 0.146438223 | 608 | 770 | 7511.7 | 766 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 19 | 998 | 0.132804599 | 601 | 771 | 7514.8 | 767 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 20 | 956 | 0.127095548 | 624 | 771 | 7521.9 | 766 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 21 | 946 | 0.126565343 | 598 | 766 | 7474.4 | 763 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 22 | 264 | 0.042531254 | 415 | 636 | 6207.2 | 628 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 23 | 111 | 0.026808356 | 231 | 424 | 4140.5 | 409 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 0 | 51 | 0.018338727 | 172 | 285 | 2781 | 246 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 1 | 48 | 0.018176999 | 169 | 270 | 2640.7 | 226 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 2 | 47 | 0.017748574 | 177 | 271 | 2648.1 | 228 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 3 | 44 | 0.016368439 | 172 | 275 | 2688.1 | 229 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 4 | 40 | 0.014931502 | 174 | 274 | 2678.9 | 230 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 5 | 42 | 0.015824573 | 169 | 272 | 2654.1 | 229 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 6 | 59 | 0.021034618 | 185 | 287 | 2804.9 | 246 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 7 | 76 | 0.023055454 | 220 | 338 | 3296.4 | 302 |

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|----|---------------|---|------|-----------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 8 | 224 | 0.045637912 | 323 | 503 | 4908.2 | 480 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 9 | 324 | 0.055985623 | 382 | 593 | 5787.2 | 574 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 10 | 242 | 0.043441578 | 356 | 571 | 5570.7 | 555 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 11 | 199 | 0.036647576 | 331 | 557 | 5430.1 | 541 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 12 | 151 | 0.03102336 | 296 | 499 | 4867.3 | 483 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 13 | 135 | 0.030537459 | 274 | 453 | 4420.8 | 435 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 14 | 200 | 0.044289922 | 261 | 463 | 4515.7 | 442 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 15 | 159 | 0.038754966 | 246 | 420 | 4102.7 | 401 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 16 | 78 | 0.025656207 | 170 | 311 | 3040.2 | 282 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 17 | 112 | 0.034108905 | 193 | 336 | 3283.6 | 301 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 18 | 156 | 0.042766675 | 204 | 374 | 3647.7 | 345 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 19 | 74 | 0.02648817 | 162 | 286 | 2793.7 | 254 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 20 | 67 | 0.025887717 | 160 | 265 | 2588.1 | 226 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 21 | 78 | 0.030197445 | 162 | 265 | 2583 | 226 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 22 | 80 | 0.031059518 | 159 | 264 | 2575.7 | 227 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 23 | 77 | 0.030028859 | 159 | 263 | 2564.2 | 226 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 0 | 76 | 0.029582344 | 161 | 263 | 2569.1 | 227 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 1 | 72 | 0.027997045 | 164 | 263 | 2571.7 | 226 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 2 | 75 | 0.029307178 | 166 | 262 | 2559.1 | 227 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 3 | 83 | 0.032256811 | 164 | 264 | 2573.1 | 226 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 4 | 85 | 0.03306621 | 159 | 263 | 2570.6 | 227 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 5 | 83 | 0.032452299 | 161 | 262 | 2557.6 | 226 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 6 | 83 | 0.03249677 | 163 | 262 | 2554.1 | 227 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 7 | 76 | 0.029766567 | 163 | 262 | 2553.2 | 227 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 8 | 82 | 0.032192211 | 163 | 261 | 2547.2 | 226 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 9 | 84 | 0.032735776 | 164 | 263 | 2566 | 226 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 10 | 86 | 0.033613445 | 161 | 262 | 2558.5 | 226 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 11 | 72 | 0.02831079 | 160 | 260 | 2543.2 | 226 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 12 | 115 | 0.03866456 | 184 | 305 | 2974.3 | 271 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 13 | 182 | 0.04850617 | 210 | 385 | 3752.1 | 355 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 14 | 193 | 0.046177772 | 275 | 428 | 4179.5 | 408 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 15 | 130 | 0.036984353 | 217 | 360 | 3515 | 337 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 16 | 149 | 0.042310313 | 186 | 361 | 3521.6 | 332 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 17 | 109 | 0.037044589 | 170 | 301 | 2942.4 | 271 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 18 | 212 | 0.053124843 | 239 | 409 | 3990.6 | 384 |

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|----|---------------|---|------|-----------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 19 | 100 | 0.032167787 | 171 | 319 | 3108.7 | 294 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 20 | 79 | 0.03027864 | 107 | 267 | 2609.1 | 230 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 21 | 100 | 0.038574294 | 93 | 266 | 2592.4 | 226 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 22 | 82 | 0.031626041 | 88 | 266 | 2592.8 | 227 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 23 | 82 | 0.031736202 | 173 | 265 | 2583.8 | 226 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 0 | 78 | 0.030158914 | 173 | 265 | 2586.3 | 226 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 1 | 75 | 0.029054002 | 170 | 264 | 2581.4 | 226 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 2 | 73 | 0.028350616 | 167 | 264 | 2574.9 | 226 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 3 | 81 | 0.031199445 | 173 | 266 | 2596.2 | 226 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 4 | 89 | 0.034373552 | 170 | 265 | 2589.2 | 227 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 5 | 91 | 0.034378542 | 174 | 271 | 2647 | 233 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 6 | 128 | 0.045317755 | 189 | 289 | 2824.5 | 261 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 7 | 105 | 0.037907506 | 191 | 284 | 2769.9 | 253 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 8 | 101 | 0.035937945 | 191 | 288 | 2810.4 | 253 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 9 | 124 | 0.042218515 | 199 | 301 | 2937.1 | 267 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 10 | 122 | 0.042011019 | 191 | 298 | 2904 | 261 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 11 | 143 | 0.046631449 | 196 | 314 | 3066.6 | 279 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 12 | 259 | 0.060409572 | 287 | 439 | 4287.4 | 411 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 13 | 276 | 0.059308922 | 311 | 477 | 4653.6 | 455 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 14 | 293 | 0.062685865 | 294 | 479 | 4674.1 | 461 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 15 | 296 | 0.064037384 | 286 | 474 | 4622.3 | 455 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 16 | 427 | 0.083855384 | 331 | 522 | 5092.1 | 506 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 17 | 682 | 0.116089058 | 399 | 602 | 5874.8 | 592 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 18 | 883 | 0.132233138 | 487 | 685 | 6677.6 | 679 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 19 | 859 | 0.129781834 | 469 | 679 | 6618.8 | 676 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 20 | 686 | 0.112851221 | 401 | 623 | 6078.8 | 623 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 21 | 279 | 0.060049072 | 246 | 476 | 4646.2 | 464 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 22 | 252 | 0.062593145 | 213 | 413 | 4026 | 391 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 23 | 103 | 0.0392127 | 176 | 269 | 2626.7 | 237 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 0 | 110 | 0.042600984 | 183 | 264 | 2582.1 | 227 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 1 | 87 | 0.033667428 | 183 | 265 | 2584.1 | 227 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 2 | 88 | 0.034059682 | 178 | 265 | 2583.7 | 226 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 3 | 99 | 0.038167939 | 181 | 266 | 2593.8 | 226 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 4 | 92 | 0.035517122 | 176 | 265 | 2590.3 | 227 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 5 | 147 | 0.04966384 | 207 | 303 | 2959.9 | 267 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 6 | 185 | 0.055645792 | 199 | 341 | 3324.6 | 307 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 7 | 196 | 0.054238039 | 220 | 370 | 3613.7 | 344 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 8 | 233 | 0.059884857 | 252 | 399 | 3890.8 | 372 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 9 | 281 | 0.063772326 | 295 | 452 | 4406.3 | 425 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 10 | 583 | 0.107200647 | 375 | 558 | 5438.4 | 540 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 11 | 895 | 0.139111242 | 463 | 660 | 6433.7 | 654 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 12 | 1116 | 0.150511821 | 622 | 760 | 7414.7 | 751 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 13 | 1265 | 0.168365853 | 616 | 770 | 7513.4 | 772 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 14 | 2022 | 0.269427566 | 607 | 770 | 7504.8 | 773 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 15 | 1437 | 0.189041637 | 615 | 779 | 7601.5 | 773 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 16 | 912 | 0.120945283 | 625 | 773 | 7540.6 | 772 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 17 | 753 | 0.099793257 | 618 | 774 | 7545.6 | 769 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 18 | 788 | 0.104949124 | 638 | 770 | 7508.4 | 769 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 19 | 970 | 0.129307472 | 652 | 769 | 7501.5 | 768 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 20 | 975 | 0.133682507 | 605 | 748 | 7293.4 | 747 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 21 | 722 | 0.116127579 | 416 | 637 | 6217.3 | 628 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 22 | 752 | 0.146723119 | 302 | 525 | 5125.3 | 512 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 23 | 361 | 0.09790627 | 217 | 378 | 3687.2 | 348 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 0 | 165 | 0.061663801 | 182 | 274 | 2675.8 | 232 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 1 | 173 | 0.066676944 | 171 | 266 | 2594.6 | 228 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 2 | 131 | 0.050047755 | 175 | 268 | 2617.5 | 226 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 3 | 137 | 0.053170845 | 175 | 264 | 2576.6 | 226 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 4 | 133 | 0.051018451 | 179 | 267 | 2606.9 | 227 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 5 | 135 | 0.052011096 | 192 | 266 | 2595.6 | 226 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 6 | 209 | 0.071715335 | 224 | 299 | 2914.3 | 263 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 7 | 483 | 0.121871215 | 265 | 406 | 3963.2 | 373 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 8 | 391 | 0.089428663 | 297 | 448 | 4372.2 | 422 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 9 | 796 | 0.136715731 | 489 | 597 | 5822.3 | 571 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 10 | 1229 | 0.170351376 | 728 | 740 | 7214.5 | 726 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 11 | 1018 | 0.137230056 | 890 | 761 | 7418.2 | 760 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 12 | 1129 | 0.149086203 | 961 | 777 | 7572.8 | 771 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 13 | 1103 | 0.144982781 | 699 | 780 | 7607.8 | 774 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 14 | 953 | 0.125637747 | 538 | 778 | 7585.3 | 774 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 15 | 1039 | 0.136807732 | 531 | 779 | 7594.6 | 775 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 16 | 1055 | 0.139386172 | 492 | 776 | 7568.9 | 772 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 17 | 1100 | 0.145208771 | 484 | 777 | 7575.3 | 769 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 18 | 1084 | 0.143164679 | 484 | 776 | 7571.7 | 770 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 19 | 1010 | 0.133838652 | 498 | 774 | 7546.4 | 771 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 20 | 969 | 0.128577684 | 504 | 773 | 7536.3 | 772 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 21 | 930 | 0.12691914 | 469 | 751 | 7327.5 | 751 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 22 | 448 | 0.069962832 | 358 | 657 | 6403.4 | 648 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 23 | 354 | 0.073278271 | 246 | 495 | 4830.9 | 483 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 0 | 179 | 0.055255441 | 178 | 332 | 3239.5 | 299 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 1 | 160 | 0.061439214 | 164 | 267 | 2604.2 | 226 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 2 | 145 | 0.055698536 | 164 | 267 | 2603.3 | 227 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 3 | 137 | 0.052797903 | 163 | 266 | 2594.8 | 226 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 4 | 122 | 0.046890614 | 158 | 266 | 2601.8 | 227 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 5 | 138 | 0.051101648 | 167 | 277 | 2700.5 | 237 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 6 | 216 | 0.065783463 | 203 | 336 | 3283.5 | 302 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 7 | 285 | 0.072493259 | 232 | 403 | 3931.4 | 373 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 8 | 206 | 0.054293395 | 223 | 389 | 3794.2 | 359 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 9 | 374 | 0.08131849 | 262 | 471 | 4599.2 | 441 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 10 | 605 | 0.112512088 | 295 | 551 | 5377.2 | 529 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 11 | 409 | 0.076758502 | 293 | 546 | 5328.4 | 529 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 12 | 955 | 0.139495479 | 438 | 702 | 6846.1 | 689 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 13 | 1172 | 0.154036222 | 570 | 780 | 7608.6 | 775 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 14 | 954 | 0.12648997 | 558 | 773 | 7542.1 | 775 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 15 | 890 | 0.117709298 | 552 | 775 | 7561 | 775 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 16 | 841 | 0.111556216 | 542 | 773 | 7538.8 | 775 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 17 | 889 | 0.117773303 | 505 | 774 | 7548.4 | 771 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 18 | 1021 | 0.136475432 | 538 | 767 | 7481.2 | 771 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 19 | 1136 | 0.152291069 | 522 | 765 | 7459.4 | 770 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 20 | 659 | 0.098406678 | 408 | 687 | 6696.7 | 685 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 21 | 537 | 0.098711421 | 337 | 558 | 5440.1 | 549 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 22 | 388 | 0.085498336 | 272 | 465 | 4538.1 | 443 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 23 | 135 | 0.043095192 | 169 | 321 | 3132.6 | 295 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 0 | 133 | 0.051122386 | 156 | 266 | 2601.6 | 226 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 1 | 134 | 0.051538462 | 161 | 266 | 2600 | 227 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 2 | 131 | 0.050629976 | 160 | 265 | 2587.4 | 227 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 3 | 147 | 0.056717339 | 160 | 265 | 2591.8 | 226 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 4 | 144 | 0.055408057 | 161 | 266 | 2598.9 | 227 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 5 | 152 | 0.057735405 | 160 | 270 | 2632.7 | 231 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 6 | 182 | 0.057478525 | 190 | 324 | 3166.4 | 289 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 7 | 173 | 0.046855533 | 210 | 378 | 3692.2 | 350 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 8 | 181 | 0.048610179 | 223 | 382 | 3723.5 | 353 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 9 | 211 | 0.054806618 | 231 | 395 | 3849.9 | 362 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 10 | 277 | 0.063539397 | 265 | 447 | 4359.5 | 423 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 11 | 427 | 0.081314747 | 315 | 538 | 5251.2 | 516 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 12 | 942 | 0.143056737 | 447 | 675 | 6584.8 | 660 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 13 | 1214 | 0.158965025 | 549 | 783 | 7636.9 | 777 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 14 | 924 | 0.122005968 | 552 | 777 | 7573.4 | 775 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 15 | 845 | 0.112185019 | 519 | 772 | 7532.2 | 775 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 16 | 906 | 0.120082706 | 558 | 774 | 7544.8 | 776 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 17 | 1017 | 0.1350777 | 564 | 772 | 7529 | 775 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 18 | 1129 | 0.150162931 | 586 | 771 | 7518.5 | 775 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 19 | 970 | 0.132557123 | 541 | 750 | 7317.6 | 756 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 20 | 539 | 0.088343277 | 335 | 626 | 6101.2 | 621 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 21 | 611 | 0.122952469 | 188 | 509 | 4969.4 | 493 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 22 | 310 | 0.074035155 | 134 | 429 | 4187.2 | 409 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 23 | 105 | 0.033949819 | 86 | 317 | 3092.8 | 289 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 0 | 99 | 0.035184988 | 84 | 288 | 2813.7 | 251 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 1 | 93 | 0.036168475 | 74 | 263 | 2571.3 | 226 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 2 | 86 | 0.033474758 | 74 | 263 | 2569.1 | 227 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 3 | 86 | 0.033396761 | 77 | 264 | 2575.1 | 226 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 4 | 87 | 0.033544109 | 98 | 266 | 2593.6 | 227 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 5 | 85 | 0.032980251 | 126 | 264 | 2577.3 | 226 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 6 | 110 | 0.040414432 | 185 | 279 | 2721.8 | 242 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 7 | 104 | 0.036215482 | 209 | 294 | 2871.7 | 256 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 8 | 126 | 0.039173014 | 183 | 330 | 3216.5 | 294 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 9 | 268 | 0.062049964 | 263 | 443 | 4319.1 | 413 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 10 | 304 | 0.063628943 | 267 | 490 | 4777.7 | 461 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 11 | 523 | 0.09351476 | 330 | 573 | 5592.7 | 548 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 12 | 1043 | 0.154294506 | 459 | 693 | 6759.8 | 674 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 13 | 1170 | 0.152761457 | 589 | 785 | 7659 | 777 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 14 | 779 | 0.102058195 | 587 | 783 | 7632.9 | 776 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 15 | 610 | 0.080022039 | 587 | 782 | 7622.9 | 773 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 16 | 675 | 0.089524921 | 542 | 773 | 7539.8 | 767 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 17 | 374 | 0.056755239 | 408 | 676 | 6589.7 | 668 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 18 | 638 | 0.102409348 | 355 | 639 | 6229.9 | 627 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 19 | 542 | 0.113232775 | 258 | 491 | 4786.6 | 474 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 20 | 359 | 0.083862829 | 235 | 439 | 4280.8 | 414 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 21 | 160 | 0.045783615 | 192 | 358 | 3494.7 | 328 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 22 | 173 | 0.050428496 | 185 | 352 | 3430.6 | 315 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 23 | 84 | 0.03006012 | 167 | 286 | 2794.4 | 250 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 0 | 82 | 0.030221501 | 133 | 278 | 2713.3 | 241 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 1 | 70 | 0.027052095 | 113 | 265 | 2587.6 | 226 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 2 | 72 | 0.027813188 | 95 | 265 | 2588.7 | 226 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 3 | 67 | 0.02584378 | 108 | 266 | 2592.5 | 226 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 4 | 71 | 0.027423716 | 93 | 265 | 2589 | 226 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 5 | 67 | 0.026012346 | 97 | 264 | 2575.7 | 226 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 6 | 64 | 0.024807163 | 103 | 264 | 2579.9 | 226 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 7 | 82 | 0.031188194 | 97 | 269 | 2629.2 | 231 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 8 | 149 | 0.044125922 | 131 | 346 | 3376.7 | 310 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 9 | 131 | 0.03771195 | 135 | 356 | 3473.7 | 323 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 10 | 343 | 0.074583052 | 197 | 471 | 4598.9 | 446 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 11 | 626 | 0.104927925 | 196 | 612 | 5966 | 586 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 12 | 949 | 0.131790912 | 295 | 738 | 7200.8 | 727 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 13 | 629 | 0.083968549 | 599 | 768 | 7490.9 | 766 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 14 | 684 | 0.090675292 | 588 | 774 | 7543.4 | 766 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 15 | 882 | 0.116600346 | 559 | 776 | 7564.3 | 767 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 16 | 1016 | 0.133689488 | 577 | 779 | 7599.7 | 769 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 17 | 1110 | 0.146085309 | 539 | 779 | 7598.3 | 769 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 18 | 1032 | 0.135968379 | 645 | 778 | 7590 | 769 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 19 | 1024 | 0.135113738 | 560 | 777 | 7578.8 | 768 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 20 | 582 | 0.090471009 | 392 | 660 | 6433 | 656 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 21 | 269 | 0.055477644 | 324 | 497 | 4848.8 | 479 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 22 | 229 | 0.057902855 | 197 | 405 | 3954.9 | 376 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 23 | 128 | 0.044487696 | 115 | 295 | 2877.2 | 260 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 0 | 116 | 0.04318368 | 96 | 275 | 2686.2 | 237 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 1 | 92 | 0.03564648 | 209 | 264 | 2580.9 | 226 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 2 | 79 | 0.030289088 | 190 | 267 | 2608.2 | 226 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 3 | 74 | 0.028360097 | 198 | 267 | 2609.3 | 226 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 4 | 75 | 0.02865877 | 183 | 268 | 2617 | 227 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 5 | 88 | 0.032972386 | 181 | 273 | 2668.9 | 237 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 6 | 147 | 0.045340983 | 210 | 332 | 3242.1 | 298 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 7 | 314 | 0.072882575 | 275 | 442 | 4308.3 | 412 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 8 | 347 | 0.073757599 | 282 | 482 | 4704.6 | 459 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 9 | 380 | 0.074534649 | 305 | 523 | 5098.3 | 516 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 10 | 1655 | 0.241948453 | 506 | 701 | 6840.3 | 682 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 11 | 949 | 0.125928875 | 678 | 773 | 7536 | 773 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 12 | 853 | 0.112751642 | 650 | 776 | 7565.3 | 773 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 13 | 894 | 0.118288391 | 627 | 775 | 7557.8 | 776 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 14 | 1003 | 0.131672224 | 624 | 781 | 7617.4 | 774 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 15 | 1137 | 0.149022897 | 640 | 782 | 7629.7 | 774 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 16 | 1109 | 0.145823198 | 638 | 780 | 7605.1 | 773 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 17 | 447 | 0.065584835 | 477 | 699 | 6815.6 | 690 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 18 | 327 | 0.048972623 | 494 | 685 | 6677.2 | 680 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 19 | 317 | 0.047071751 | 505 | 690 | 6734.4 | 678 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 20 | 339 | 0.050581916 | 509 | 687 | 6702 | 679 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 21 | 679 | 0.100535995 | 466 | 692 | 6753.8 | 679 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 22 | 346 | 0.051349025 | 471 | 691 | 6738.2 | 679 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 23 | 191 | 0.0345495 | 337 | 567 | 5528.3 | 556 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 0 | 104 | 0.023409188 | 244 | 455 | 4442.7 | 434 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 1 | 54 | 0.016523868 | 127 | 335 | 3268 | 309 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 2 | 44 | 0.015586808 | 104 | 289 | 2822.9 | 252 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 3 | 53 | 0.018864567 | 101 | 288 | 2809.5 | 251 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 4 | 64 | 0.022607651 | 101 | 290 | 2830.9 | 253 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 5 | 103 | 0.032359409 | 114 | 326 | 3183 | 289 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 6 | 245 | 0.053366442 | 169 | 471 | 4590.9 | 442 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 7 | 727 | 0.124674167 | 309 | 598 | 5831.2 | 578 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 8 | 910 | 0.136152131 | 508 | 685 | 6683.7 | 673 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 9 | 1130 | 0.149690683 | 649 | 774 | 7548.9 | 771 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 10 | 884 | 0.117344094 | 632 | 772 | 7533.4 | 774 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 11 | 824 | 0.109212846 | 656 | 774 | 7544.9 | 773 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 12 | 901 | 0.118810576 | 659 | 778 | 7583.5 | 774 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 13 | 873 | 0.115412073 | 665 | 776 | 7564.2 | 774 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 14 | 735 | 0.096594867 | 669 | 780 | 7609.1 | 775 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 15 | 1034 | 0.136993561 | 664 | 774 | 7547.8 | 771 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 16 | 1239 | 0.163088547 | 630 | 779 | 7597.1 | 773 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 17 | 968 | 0.126771262 | 633 | 783 | 7635.8 | 773 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 18 | 869 | 0.114265427 | 616 | 780 | 7605.1 | 774 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 19 | 910 | 0.119400635 | 625 | 782 | 7621.4 | 775 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 20 | 924 | 0.123574017 | 613 | 767 | 7477.3 | 760 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 21 | 356 | 0.059094003 | 343 | 618 | 6024.3 | 607 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 22 | 514 | 0.092552579 | 333 | 569 | 5553.6 | 549 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 23 | 436 | 0.108244991 | 213 | 413 | 4027.9 | 395 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 0 | 347 | 0.096058022 | 122 | 370 | 3612.4 | 345 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 1 | 205 | 0.066250848 | 89 | 317 | 3094.3 | 286 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 2 | 148 | 0.052167783 | 90 | 291 | 2837 | 252 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 3 | 148 | 0.052521381 | 87 | 289 | 2817.9 | 252 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 4 | 155 | 0.054729706 | 87 | 290 | 2832.1 | 254 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 5 | 289 | 0.085381706 | 115 | 347 | 3384.8 | 316 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 6 | 993 | 0.156402583 | 285 | 651 | 6349 | 621 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 7 | 460 | 0.071420808 | 457 | 660 | 6440.7 | 656 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 8 | 244 | 0.042192634 | 329 | 593 | 5783 | 577 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 9 | 242 | 0.043615392 | 316 | 569 | 5548.5 | 557 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 10 | 267 | 0.053021427 | 271 | 516 | 5035.7 | 495 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 11 | 446 | 0.088550043 | 282 | 516 | 5036.7 | 496 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 12 | 749 | 0.129872382 | 351 | 591 | 5767.2 | 576 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 13 | 815 | 0.128634111 | 430 | 650 | 6335.8 | 637 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 14 | 730 | 0.109721638 | 485 | 682 | 6653.2 | 676 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 15 | 680 | 0.101595649 | 495 | 686 | 6693.2 | 678 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 16 | 1278 | 0.172005384 | 631 | 762 | 7430 | 758 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 17 | 932 | 0.124328002 | 644 | 769 | 7496.3 | 767 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 18 | 838 | 0.111761646 | 637 | 769 | 7498.1 | 766 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 19 | 835 | 0.111102241 | 661 | 771 | 7515.6 | 766 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 20 | 957 | 0.127824972 | 643 | 768 | 7486.8 | 767 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 21 | 736 | 0.10636453 | 539 | 710 | 6919.6 | 706 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 22 | 339 | 0.058483568 | 371 | 594 | 5796.5 | 581 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 23 | 150 | 0.034895082 | 257 | 441 | 4298.6 | 420 |

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|----|---------------|---|------|------------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 0 | 127 | 0.036181305 | 182 | 360 | 3510.1 | 330 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 1 | 119 | 0.040246212 | 115 | 303 | 2956.8 | 272 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 2 | 84 | 0.032398658 | 108 | 266 | 2592.7 | 226 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 3 | 72 | 0.02763067 | 200 | 267 | 2605.8 | 227 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 4 | 82 | 0.029724145 | 209 | 283 | 2758.7 | 243 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 5 | 327 | 0.074866065 | 301 | 448 | 4367.8 | 414 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 6 | 737 | 0.114942529 | 461 | 657 | 6411.9 | 632 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 7 | 752 | 0.117048267 | 494 | 659 | 6424.7 | 647 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 8 | 864 | 0.136949389 | 466 | 647 | 6308.9 | 635 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 9 | 706 | 0.116476663 | 430 | 621 | 6061.3 | 603 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 10 | 555 | 0.098301422 | 383 | 579 | 5645.9 | 558 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 11 | 510 | 0.096790723 | 326 | 540 | 5269.1 | 524 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 12 | 677 | 0.120041846 | 394 | 578 | 5639.7 | 556 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 13 | 850 | 0.140665597 | 435 | 620 | 6042.7 | 603 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 14 | 758 | 0.123047953 | 443 | 632 | 6160.2 | 613 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 15 | 686 | 0.118787879 | 410 | 592 | 5775 | 575 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 16 | 719 | 0.128207414 | 409 | 575 | 5608.1 | 555 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 17 | 773 | 0.131886506 | 445 | 601 | 5861.1 | 583 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 18 | 954 | 0.148097552 | 496 | 660 | 6441.7 | 655 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 19 | 519 | 0.097067405 | 374 | 548 | 5346.8 | 542 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 20 | 245 | 0.074898352 | 202 | 335 | 3271.1 | 319 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 21 | 110 | 0.040150381 | 194 | 281 | 2739.7 | 250 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 22 | 111 | 0.039902222 | 197 | 285 | 2781.8 | 252 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 23 | 113 | 0.040904977 | 196 | 283 | 2762.5 | 250 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 0 | 92 | 0.035266608 | 182 | 267 | 2608.7 | 227 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 1 | 94 | 0.03675608 | 171 | 262 | 2557.4 | 225 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 2 | 92 | 0.035562428 | 178 | 265 | 2587 | 225 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 3 | 88 | 0.033846154 | 182 | 266 | 2600 | 225 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 4 | 89 | 0.034077421 | 185 | 268 | 2611.7 | 225 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 5 | 128 | 0.043931906 | 209 | 298 | 2913.6 | 260 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 6 | 292 | 0.070373316 | 286 | 425 | 4149.3 | 394 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 7 | 376 | 0.076147272 | 345 | 506 | 4937.8 | 478 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 8 | 430 | 0.082100239 | 361 | 537 | 5237.5 | 517 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 9 | 739 | 0.123302299 | 437 | 614 | 5993.4 | 599 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 10 | 879 | 0.135041711 | 494 | 667 | 6509.1 | 657 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 11 | 820 | 0.127586743 | 514 | 659 | 6427 | 657 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 12 | 956 | 0.144611847 | 535 | 678 | 6610.8 | 672 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 13 | 982 | 0.146939997 | 548 | 685 | 6683 | 681 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 14 | 913 | 0.136795421 | 554 | 684 | 6674.2 | 681 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 15 | 943 | 0.141296693 | 553 | 684 | 6673.9 | 681 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 16 | 981 | 0.146636771 | 548 | 686 | 6690 | 683 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 17 | 1180 | 0.158083704 | 694 | 765 | 7464.4 | 762 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 18 | 1243 | 0.163783221 | 690 | 778 | 7589.3 | 771 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 19 | 1116 | 0.150519941 | 667 | 760 | 7414.3 | 760 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 20 | 411 | 0.065720042 | 481 | 641 | 6253.8 | 635 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 21 | 618 | 0.114081075 | 373 | 555 | 5417.2 | 541 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 22 | 746 | 0.150551957 | 327 | 508 | 4955.1 | 487 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 23 | 458 | 0.105908197 | 281 | 443 | 4324.5 | 422 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 0 | 263 | 0.07912154 | 219 | 341 | 3324 | 313 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 1 | 143 | 0.054989425 | 182 | 266 | 2600.5 | 227 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 2 | 140 | 0.053796496 | 179 | 267 | 2602.4 | 227 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 3 | 134 | 0.05121541 | 185 | 268 | 2616.4 | 226 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 4 | 137 | 0.052059584 | 186 | 270 | 2631.6 | 228 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 5 | 184 | 0.06282222 | 193 | 300 | 2928.9 | 262 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 6 | 235 | 0.071201333 | 204 | 338 | 3300.5 | 304 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 7 | 332 | 0.089070129 | 249 | 382 | 3727.4 | 348 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 8 | 710 | 0.140850659 | 352 | 517 | 5040.8 | 491 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 9 | 1074 | 0.17202441 | 518 | 640 | 6243.3 | 629 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 10 | 1453 | 0.193542372 | 653 | 770 | 7507.4 | 758 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 11 | 974 | 0.128587648 | 696 | 777 | 7574.6 | 770 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 12 | 874 | 0.115391725 | 681 | 777 | 7574.2 | 771 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 13 | 896 | 0.118637784 | 687 | 774 | 7552.4 | 771 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 14 | 1034 | 0.136734505 | 695 | 775 | 7562.1 | 771 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 15 | 1257 | 0.165114477 | 700 | 781 | 7612.9 | 774 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 16 | 1259 | 0.164844517 | 702 | 783 | 7637.5 | 775 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 17 | 1115 | 0.147299725 | 704 | 776 | 7569.6 | 772 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 18 | 1017 | 0.13439759 | 696 | 776 | 7567.1 | 771 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 19 | 983 | 0.129768977 | 719 | 777 | 7575 | 771 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 20 | 781 | 0.108004204 | 643 | 741 | 7231.2 | 735 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 21 | 659 | 0.103325546 | 503 | 654 | 6377.9 | 643 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 22 | 1290 | 0.204953846 | 503 | 645 | 6294.1 | 628 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 23 | 465 | 0.088867654 | 345 | 536 | 5232.5 | 523 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 0 | 122 | 0.037163397 | 174 | 336 | 3282.8 | 310 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 1 | 97 | 0.037184697 | 146 | 267 | 2608.6 | 227 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 2 | 107 | 0.040783656 | 81 | 269 | 2623.6 | 226 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 3 | 114 | 0.043616329 | 81 | 268 | 2613.7 | 227 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 4 | 180 | 0.059602649 | 105 | 309 | 3020 | 276 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 5 | 194 | 0.059618931 | 113 | 333 | 3254 | 301 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 6 | 207 | 0.064381687 | 106 | 329 | 3215.2 | 301 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 7 | 201 | 0.062871442 | 92 | 328 | 3197 | 301 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 8 | 227 | 0.068055764 | 113 | 342 | 3335.5 | 318 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 9 | 461 | 0.100628656 | 210 | 470 | 4581.2 | 443 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 10 | 356 | 0.076531161 | 223 | 477 | 4651.7 | 456 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 11 | 727 | 0.13382667 | 418 | 557 | 5432.4 | 528 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 12 | 1753 | 0.241347028 | 719 | 745 | 7263.4 | 723 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 13 | 1035 | 0.135154546 | 758 | 785 | 7657.9 | 773 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 14 | 849 | 0.11122465 | 740 | 783 | 7633.2 | 772 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 15 | 875 | 0.114785711 | 739 | 782 | 7622.9 | 772 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 16 | 1018 | 0.133183317 | 749 | 784 | 7643.6 | 771 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 17 | 1225 | 0.161337056 | 728 | 779 | 7592.8 | 771 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 18 | 1267 | 0.16660092 | 722 | 780 | 7605 | 771 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 19 | 1167 | 0.153423433 | 722 | 780 | 7606.4 | 771 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 20 | 1145 | 0.150284162 | 685 | 781 | 7618.9 | 770 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 21 | 1059 | 0.139080414 | 685 | 781 | 7614.3 | 769 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 22 | 999 | 0.133228422 | 652 | 769 | 7498.4 | 760 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 23 | 348 | 0.056401031 | 438 | 633 | 6170.1 | 621 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 0 | 207 | 0.044202434 | 276 | 480 | 4683 | 462 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 1 | 55 | 0.020043001 | 118 | 281 | 2744.1 | 249 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 2 | 59 | 0.022460789 | 107 | 269 | 2626.8 | 227 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 3 | 78 | 0.030110017 | 116 | 265 | 2590.5 | 226 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 4 | 146 | 0.053609459 | 128 | 279 | 2723.4 | 236 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 5 | 430 | 0.106335625 | 258 | 414 | 4043.8 | 383 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 6 | 1238 | 0.193728092 | 575 | 655 | 6390.4 | 633 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 7 | 1039 | 0.138129994 | 722 | 771 | 7521.9 | 767 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 8 | 983 | 0.130697229 | 722 | 771 | 7521.2 | 770 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 9 | 1194 | 0.15848155 | 693 | 773 | 7534 | 770 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 10 | 1122 | 0.147896235 | 682 | 778 | 7586.4 | 770 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 11 | 1048 | 0.137294975 | 671 | 783 | 7633.2 | 772 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 12 | 1064 | 0.139645374 | 685 | 781 | 7619.3 | 771 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 13 | 1100 | 0.143715704 | 673 | 785 | 7654 | 773 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 14 | 1063 | 0.139050584 | 672 | 784 | 7644.7 | 772 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 15 | 1049 | 0.13759362 | 686 | 782 | 7623.9 | 773 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 16 | 1145 | 0.149896578 | 672 | 783 | 7638.6 | 770 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 17 | 1266 | 0.167064754 | 666 | 777 | 7577.9 | 769 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 18 | 1188 | 0.157072216 | 658 | 776 | 7563.4 | 770 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 19 | 1101 | 0.145454065 | 651 | 776 | 7569.4 | 771 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 20 | 1020 | 0.132928466 | 675 | 787 | 7673.3 | 774 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 21 | 1692 | 0.222740018 | 683 | 779 | 7596.3 | 774 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 22 | 720 | 0.107849011 | 520 | 685 | 6676 | 674 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 23 | 384 | 0.074789654 | 333 | 526 | 5134.4 | 507 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 0 | 175 | 0.056555602 | 204 | 317 | 3094.3 | 283 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 1 | 160 | 0.060656608 | 197 | 270 | 2637.8 | 227 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 2 | 138 | 0.052359994 | 200 | 270 | 2635.6 | 226 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 3 | 112 | 0.04238571 | 203 | 271 | 2642.4 | 226 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 4 | 118 | 0.044573717 | 206 | 271 | 2647.3 | 227 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 5 | 290 | 0.084398009 | 244 | 352 | 3436.1 | 309 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 6 | 1053 | 0.231693364 | 322 | 466 | 4544.8 | 438 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 7 | 1565 | 0.289450322 | 394 | 554 | 5406.8 | 532 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 8 | 1112 | 0.235743057 | 349 | 484 | 4717 | 466 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 9 | 1023 | 0.220151502 | 329 | 476 | 4646.8 | 454 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 10 | 716 | 0.14699844 | 345 | 499 | 4870.8 | 482 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 11 | 259 | 0.045938276 | 439 | 578 | 5638 | 561 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 12 | 429 | 0.065926973 | 533 | 667 | 6507.2 | 652 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 13 | 764 | 0.122152051 | 494 | 641 | 6254.5 | 630 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 14 | 1009 | 0.171310209 | 435 | 604 | 5889.9 | 588 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 15 | 680 | 0.110783467 | 484 | 629 | 6138.1 | 612 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 16 | 345 | 0.061553284 | 420 | 575 | 5604.9 | 560 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 17 | 382 | 0.066394369 | 460 | 590 | 5753.5 | 571 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 18 | 730 | 0.112259334 | 559 | 667 | 6502.8 | 655 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 19 | 748 | 0.113828314 | 565 | 674 | 6571.3 | 658 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 20 | 567 | 0.086600583 | 582 | 671 | 6547.3 | 658 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 21 | 415 | 0.068709747 | 489 | 619 | 6039.9 | 609 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 22 | 261 | 0.053791142 | 325 | 497 | 4852.1 | 479 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 23 | 89 | 0.028829646 | 157 | 316 | 3087.1 | 288 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 0 | 110 | 0.038925652 | 124 | 289 | 2825.9 | 252 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 1 | 104 | 0.03960396 | 112 | 269 | 2626 | 232 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 2 | 90 | 0.034245272 | 113 | 269 | 2628.1 | 226 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 3 | 89 | 0.034288796 | 116 | 266 | 2595.6 | 226 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 4 | 96 | 0.036722515 | 120 | 268 | 2614.2 | 227 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 5 | 94 | 0.035465007 | 119 | 271 | 2650.5 | 231 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 6 | 229 | 0.064032659 | 171 | 366 | 3576.3 | 333 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 7 | 305 | 0.070383533 | 212 | 444 | 4333.4 | 414 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 8 | 232 | 0.056377731 | 201 | 422 | 4115.1 | 391 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 9 | 445 | 0.096153846 | 273 | 474 | 4628 | 446 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 10 | 545 | 0.104512244 | 385 | 535 | 5214.7 | 507 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 11 | 943 | 0.157122149 | 432 | 615 | 6001.7 | 596 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 12 | 1104 | 0.170010934 | 513 | 666 | 6493.7 | 651 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 13 | 835 | 0.128643619 | 499 | 666 | 6490.8 | 650 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 14 | 916 | 0.141572131 | 498 | 663 | 6470.2 | 651 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 15 | 947 | 0.145716967 | 500 | 666 | 6498.9 | 651 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 16 | 891 | 0.137041082 | 507 | 667 | 6501.7 | 650 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 17 | 873 | 0.134634959 | 518 | 665 | 6484.2 | 650 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 18 | 929 | 0.144834898 | 487 | 658 | 6414.2 | 648 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 19 | 977 | 0.149021522 | 485 | 672 | 6556.1 | 660 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 20 | 882 | 0.136435356 | 484 | 663 | 6464.6 | 650 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 21 | 846 | 0.138515947 | 445 | 626 | 6107.6 | 613 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 22 | 696 | 0.126343305 | 380 | 565 | 5508.8 | 549 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 23 | 380 | 0.091011424 | 300 | 428 | 4175.3 | 407 |
| FL | Crystal River | 5 | 2013 | 11/21/2013 | 0 | 185 | 0.054842439 | 239 | 346 | 3373.3 | 318 |
| FL | Crystal River | 5 | 2013 | 11/21/2013 | 1 | 75 | 0.028402636 | 195 | 270 | 2640.6 | 232 |
| FL | Crystal River | 5 | 2013 | 11/21/2013 | 2 | 79 | 0.030118185 | 215 | 269 | 2623 | 226 |
| FL | Crystal River | 5 | 2013 | 11/21/2013 | 3 | 87 | 0.03308488 | 189 | 269 | 2629.6 | 225 |
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| FL | Crystal River | 5 | 2013 | 11/21/2013 | 5 | 120 | 0.038276291 | 219 | 321 | 3135.1 | 280 |
| FL | Crystal River | 5 | 2013 | 11/21/2013 | 6 | 661 | 0.135941099 | 350 | 498 | 4862.4 | 468 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/21/2013 | 7 | 450 | 0.078513478 | 389 | 588 | 5731.5 | 568 |
| FL | Crystal River | 5 | 2013 | 11/21/2013 | 8 | 479 | 0.085862298 | 401 | 572 | 5578.7 | 554 |
| FL | Crystal River | 5 | 2013 | 11/21/2013 | 9 | 994 | 0.164998423 | 445 | 618 | 6024.3 | 597 |
| FL | Crystal River | 5 | 2013 | 11/21/2013 | 10 | 1031 | 0.158583668 | 487 | 667 | 6501.3 | 649 |
| FL | Crystal River | 5 | 2013 | 11/21/2013 | 11 | 278 | 0.048083575 | 375 | 593 | 5781.6 | 573 |
| FL | Crystal River | 5 | 2013 | 11/21/2013 | 12 | 688 | 0.110074716 | 456 | 641 | 6250.3 | 624 |
| FL | Crystal River | 5 | 2013 | 11/21/2013 | 13 | 871 | 0.134384547 | 479 | 665 | 6481.4 | 650 |
| FL | Crystal River | 5 | 2013 | 11/21/2013 | 14 | 523 | 0.09013201 | 383 | 595 | 5802.6 | 575 |
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| FL | Crystal River | 5 | 2013 | 11/21/2013 | 19 | 693 | 0.109888367 | 479 | 647 | 6306.4 | 635 |
| FL | Crystal River | 5 | 2013 | 11/21/2013 | 20 | 873 | 0.135833204 | 514 | 659 | 6427 | 646 |
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| FL | Crystal River | 5 | 2013 | 11/23/2013 | 0 | 286 | 0.062698674 | 282 | 468 | 4561.5 | 436 |
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| FL | Crystal River | 5 | 2013 | 11/23/2013 | 2 | 105 | 0.037008318 | 184 | 291 | 2837.2 | 252 |
| FL | Crystal River | 5 | 2013 | 11/23/2013 | 3 | 133 | 0.046264088 | 192 | 295 | 2874.8 | 252 |
| FL | Crystal River | 5 | 2013 | 11/23/2013 | 4 | 133 | 0.046845831 | 193 | 291 | 2839.1 | 252 |
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| FL | Crystal River | 5 | 2013 | 11/23/2013 | 10 | 1109 | 0.174794313 | 444 | 651 | 6344.6 | 631 |
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| FL | Crystal River | 5 | 2013 | 11/23/2013 | 13 | 1485 | 0.196207967 | 628 | 776 | 7568.5 | 767 |
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| FL | Crystal River | 5 | 2013 | 11/23/2013 | 16 | 2021 | 0.267395245 | 612 | 775 | 7558.1 | 766 |
| FL | Crystal River | 5 | 2013 | 11/23/2013 | 17 | 1965 | 0.261209406 | 616 | 771 | 7522.7 | 767 |
| FL | Crystal River | 5 | 2013 | 11/23/2013 | 18 | 2241 | 0.297273994 | 618 | 773 | 7538.5 | 765 |
| FL | Crystal River | 5 | 2013 | 11/23/2013 | 19 | 1856 | 0.244233021 | 615 | 779 | 7599.3 | 767 |
| FL | Crystal River | 5 | 2013 | 11/23/2013 | 20 | 887 | 0.139757669 | 431 | 651 | 6346.7 | 639 |
| FL | Crystal River | 5 | 2013 | 11/23/2013 | 21 | 596 | 0.11853384 | 296 | 515 | 5028.1 | 498 |
| FL | Crystal River | 5 | 2013 | 11/23/2013 | 22 | 648 | 0.210697448 | 199 | 315 | 3075.5 | 282 |
| FL | Crystal River | 5 | 2013 | 11/23/2013 | 23 | 1050 | 0.473976437 | 252 | 227 | 2215.3 | 194 |
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Exhibit I

| Plant Name | Boiler ID | Step 6 | | | | Step 6 | | | |
|----------------------------------|-----------|--|--|--|--|--|--|--|--|
| | | Ozone Season NO _x 2012 State Budget for Existing Units (tons) | Ozone Season NO _x 2014 State Budget for Existing Units (tons) | Initial Heat Input Based 2012 Ozone Season NO _x Allocation (tons) | Initial Heat Input Based 2014 Ozone Season NO _x Allocation (tons) | 2003 Ozone Season NO _x Emissions (tons) | 2004 Ozone Season NO _x Emissions (tons) | 2005 Ozone Season NO _x Emissions (tons) | 2006 Ozone Season NO _x Emissions (tons) |
| Calculation | | | | Column BS x column BT | Column BS x column BU | | | | |
| Big Bend | BB01 | 28,071 | 27,268 | 375 | 364 | 3,490 | 3,975 | 3,714 | 4,056 |
| Big Bend | BB02 | 28,071 | 27,268 | 375 | 365 | 3,610 | 3,941 | 3,985 | 4,626 |
| Big Bend | BB03 | 28,071 | 27,268 | 384 | 373 | 2,871 | 3,148 | 2,810 | 2,584 |
| Big Bend | BB04 | 28,071 | 27,268 | 435 | 423 | 2,515 | 1,369 | 1,428 | 2,407 |
| C D McIntosh Jr Power Plant | 3 | 28,071 | 27,268 | 327 | 318 | 2,396 | 2,079 | 2,841 | 1,870 |
| Cedar Bay Generating Co. LP | CBA | 28,071 | 27,268 | 107 | 104 | | | | |
| Cedar Bay Generating Co. LP | CBB | 28,071 | 27,268 | 110 | 107 | | | | |
| Cedar Bay Generating Co. LP | CBC | 28,071 | 27,268 | 102 | 99 | | | | |
| Crist Electric Generating Plant | 4 | 28,071 | 27,268 | 81 | 79 | 475 | 475 | 485 | 440 |
| Crist Electric Generating Plant | 5 | 28,071 | 27,268 | 77 | 75 | 450 | 440 | 480 | 379 |
| Crist Electric Generating Plant | 6 | 28,071 | 27,268 | 277 | 269 | 2,261 | 1,968 | 2,319 | 1,388 |
| Crist Electric Generating Plant | 7 | 28,071 | 27,268 | 488 | 474 | 3,957 | 2,189 | 634 | 753 |
| Crystal River | 1 | 28,071 | 27,268 | 280 | 272 | 1,939 | 1,811 | 1,803 | 2,052 |
| Crystal River | 2 | 28,071 | 27,268 | 351 | 341 | 2,447 | 2,515 | 2,201 | 2,631 |
| Crystal River | 4 | 28,071 | 27,268 | 712 | 691 | 6,446 | 5,773 | 6,214 | 5,837 |
| Crystal River | 5 | 28,071 | 27,268 | 674 | 654 | 5,926 | 5,252 | 6,752 | 5,393 |
| Curtis H. Stanton Energy Center | 1 | 28,071 | 27,268 | 454 | 441 | 2,781 | 2,773 | 2,969 | 3,093 |
| Curtis H. Stanton Energy Center | 2 | 28,071 | 27,268 | 445 | 432 | 1,288 | 1,192 | 1,318 | 1,259 |
| Deerhaven | B2 | 28,071 | 27,268 | 220 | 214 | 1,924 | 1,760 | 1,744 | 1,856 |
| Indiantown Cogeneration, LP | 01 | 28,071 | 27,268 | 312 | 303 | 926 | | 974 | 921 |
| Lansing Smith Generating Plant | 1 | 28,071 | 27,268 | 160 | 156 | 1,045 | 1,294 | 1,406 | 1,259 |
| Lansing Smith Generating Plant | 2 | 28,071 | 27,268 | 186 | 181 | 1,154 | 1,243 | 1,225 | 1,266 |
| Northside | 1A | 28,071 | 27,268 | 307 | 298 | 210 | 243 | 294 | 306 |
| Northside | 2A | 28,071 | 27,268 | 295 | 286 | 233 | 256 | 311 | 362 |
| Scholz Electric Generating Plant | 1 | 28,071 | 27,268 | 32 | 31 | 269 | 295 | 297 | 252 |
| Scholz Electric Generating Plant | 2 | 28,071 | 27,268 | 30 | 29 | 347 | 327 | 409 | 225 |
| Seminole (136) | 1 | 28,071 | 27,268 | 650 | 632 | 5,091 | 4,379 | 5,401 | 5,478 |
| Seminole (136) | 2 | 28,071 | 27,268 | 677 | 658 | 4,605 | 4,275 | 5,190 | 5,574 |
| St. Johns River Power | 1 | 28,071 | 27,268 | 639 | 621 | 5,671 | 5,676 | 4,562 | 4,549 |
| St. Johns River Power | 2 | 28,071 | 27,268 | 683 | 664 | 5,202 | 4,227 | 4,131 | 5,582 |

| | | | | | | | Step 8 | Steps 9 & 10 | | | |
|--|--|--|--|--|--|--|---|---|---|-----------------------|------------------------------------|
| 2007 Ozone Season NO _x Emissions (tons) | 2008 Ozone Season NO _x Emissions (tons) | 2009 Ozone Season NO _x Emissions (tons) | 2010 Ozone Season NO _x Emissions (tons) | 2011 Ozone Season Nox Emissions (tons) | 2012 Ozone Season Nox Emissions (tons) | 2013 Ozone Season Nox Emissions (tons) | Ozone Season NO _x Maximum Historic Baseline (2003-2010) (tons) | Final Transport Rule Unit Level NO _x Ozone Season Allocation 2012 (tons) | Final Transport Rule Unit Level NO _x Ozone Season Allocation 2013 (tons) | Proportion over limit | Deficit of Allowances for Facility |
| | | | | | | | Highest value of columns BX - CE | (Lesser of columns CF, CG, and BV + reapportionment if BV < (CF and CG)) | (Lesser of columns CF, CH, and BV + reapportionment if BV < (CF and CH)) | | |
| 4,457 | 3,651 | 2,001 | 475 | 549.122 | 406.486 | 612.176 | 4,457 | 530 | 530 | 1.15504906 | -76 |
| 4,146 | 3,554 | 689 | 495 | 492.923 | 545.399 | 618.556 | 4,626 | 531 | 531 | 1.16488889 | |
| 1,752 | 483 | 692 | 755 | 599.361 | 503.062 | 588.004 | 3,148 | 542 | 542 | 1.08487823 | |
| 521 | 495 | 689 | 360 | 474.159 | 483.427 | 474.805 | 2,515 | 615 | 615 | 0.77204065 | |
| 2,064 | 2,074 | 1,179 | 433 | 825.858 | 843.45 | 473.841 | 2,841 | 463 | 463 | 1.02341469 | -11 |
| | 294 | 243 | 307 | 258.374 | 236.44 | 221.496 | 307 | 152 | 152 | 1.45721053 | -186 |
| | 309 | 258 | 298 | 262.844 | 207.326 | 203.394 | 309 | 156 | 156 | 1.30380769 | |
| | 290 | 228 | 291 | 246.728 | 224.135 | 212.937 | 291 | 144 | 144 | 1.47872917 | |
| 439 | 448 | 74 | 181 | 168.362 | 5.579 | 22.28 | 485 | 115 | 115 | 0.19373913 | 117 |
| 355 | 391 | 345 | 249 | 208.943 | 158.908 | 144.767 | 480 | 108 | 108 | 1.34043519 | |
| 1,221 | 1,081 | 545 | 841 | 578.173 | 554.935 | 286.901 | 2,319 | 392 | 392 | 0.73189031 | |
| 685 | 647 | 613 | 1,498 | 1295.871 | 515.378 | 733.592 | 3,957 | 690 | 690 | 1.06317681 | |
| 1,992 | 1,595 | 1,655 | 1,583 | 1453.55 | 1110.451 | 1416.951 | 2,052 | 396 | 396 | 3.57815909 | -1,091 |
| 2,150 | 2,399 | 1,552 | 1,821 | 1542.348 | 1092.739 | 1289.292 | 2,631 | 496 | 496 | 2.59937903 | |
| 6,198 | 5,880 | 3,460 | 710 | 782.142 | 841.909 | 605.592 | 6,446 | 1,006 | 1,006 | 0.60198012 | |
| 5,654 | 4,841 | 1,027 | 456 | 470.398 | 1145.218 | 628.752 | 6,752 | 952 | 952 | 0.66045378 | |
| 2,839 | 3,032 | 2,013 | 2,050 | 1634.43 | 1041.756 | 1266.584 | 3,093 | 642 | 642 | 1.97287227 | -814 |
| 1,301 | 1,073 | 1,087 | 1,102 | 823.75 | 783.45 | 818.449 | 1,318 | 629 | 629 | 1.30119078 | |
| 1,627 | 1,652 | 435 | 229 | 243.11 | 137.853 | 326.238 | 1,924 | 311 | 311 | 1.04899678 | -15 |
| 918 | 963 | 592 | 642 | 698.634 | 672.046 | 725.515 | 974 | 441 | 441 | 1.64515873 | -285 |
| 1,305 | 1,389 | 556 | 626 | 504.82 | 426.511 | 554.309 | 1,406 | 226 | 226 | 2.45269469 | -427 |
| 1,335 | 1,034 | 610 | 782 | 593.491 | 460.682 | 361.529 | 1,335 | 263 | 263 | 1.37463498 | |
| 344 | 388 | 452 | 350 | 147.7 | 129.614 | 138.061 | 452 | 434 | 434 | 0.3181129 | 402 |
| 304 | 276 | 436 | 448 | 160.142 | 0 | 309.732 | 448 | 416 | 416 | 0.74454808 | |
| 403 | 339 | | 114 | 165.005 | 11.745 | 11.562 | 403 | 45 | 45 | 0.25693333 | 60 |
| 383 | 344 | 17 | 98 | 102.124 | 11.602 | 16.112 | 409 | 43 | 43 | 0.37469767 | |
| 3,962 | 3,930 | 289 | 485 | 449.303 | 451.525 | 455.43 | 5,478 | 919 | 919 | 0.49557127 | 948 |
| 3,867 | 4,398 | 575 | 507 | 389.561 | 457.371 | 473.012 | 5,574 | 957 | 957 | 0.49426541 | |
| 4,607 | 4,248 | 1,499 | 1,381 | 1276.374 | 3316.463 | 2919.223 | 5,676 | 903 | 903 | 3.23280509 | -3,261 |
| 4,738 | 5,322 | 1,126 | 1,448 | 1364.537 | 2910.599 | 2210.478 | 5,582 | 966 | 966 | 2.2882795 | |

Exhibit J

FIFTH AMENDMENT TO SETTLEMENT AGREEMENT AMONG THE ENVIRONMENTAL PROTECTION AGENCY, THE PLAINTIFFS IN CRONIN, ET AL. V. REILLY, 93 CIV. 314 (LTS) (SDNY), AND THE PLAINTIFFS IN RIVERKEEPER, ET AL. V. EPA, 06 CIV. 12987 (PKC) (SDNY)

WHEREAS, on November 22, 2010, the Environmental Protection Agency (“EPA”) entered into a settlement agreement (the “Settlement Agreement”) with the plaintiffs in two actions previously pending in the United States District Court for the Southern District of New York (collectively, “Riverkeeper”) – *Riverkeeper, et al. v. Jackson*, 93 Civ. 0314 (LTS), and *Riverkeeper, et al. v. EPA*, 06 Civ. 12987 (PKC) – concerning EPA’s issuance of rules implementing section 316(b) of the Clean Water Act (“CWA”), 33 U.S.C. § 1326(b);

WHEREAS, pursuant to Paragraph 4 of the Settlement Agreement, EPA agreed, *inter alia*, that on or before July 27, 2012, the “EPA Administrator shall sign for publication in the Federal Register a notice of its final action pertaining to issuance of requirements for implementing section 316(b) of the CWA at existing facilities,” Settlement Agreement ¶ 4.

WHEREAS, on March 11, 2011, EPA and Riverkeeper entered into an amendment to the Settlement Agreement (the “First Amendment”), pursuant to which the parties agreed to certain extensions of deadlines under Paragraphs 3 and 6(a)(i) of the Settlement Agreement;

WHEREAS, on July 17, 2012, EPA and Riverkeeper entered into an amendment to the Settlement Agreement (the “Second Amendment”), pursuant to which the parties agreed to extend the date on or before which EPA is to take the action under Paragraph 4 of the Settlement Agreement from July 27, 2012, to June 27, 2013;

WHEREAS, on June 18, 2013, pursuant to Section 7(a)(2) of the Endangered Species Act (“ESA”), 16 U.S.C. § 1536(a)(2) and its implementing regulations at 50 C.F.R. § 402.14(c), EPA requested formal consultation with the National Marine Fisheries Service and the U.S. Fish and Wildlife Service (collectively, the “Services”) on EPA’s final requirements for implementing section 316(b) of the CWA at existing facilities:

WHEREAS, on June 27, 2013, EPA and Riverkeeper entered into an amendment to the Settlement Agreement (the “Third Amendment”), pursuant to which the parties agreed to

extend the date on or before which EPA is to take the action under Paragraph 4 of the Settlement Agreement from June 27, 2013, to November 4, 2013;

WHEREAS, EPA and Riverkeeper recognize that, from October 1, 2013, to October 16, 2013, a lapse in funding caused a shutdown of certain federal agencies, including EPA, which prevented EPA staff from taking steps necessary during that period to complete the section 316(b) rulemaking, and that accounting for effects of the shutdown extends the deadline for EPA to complete the section 316(b) rulemaking to November 20, 2013;

WHEREAS, on November 12, 2013, EPA and Riverkeeper entered into an amendment to the Settlement Agreement (the "Fourth Amendment"), pursuant to which the parties agreed to extend the date on or before which EPA is to take the action under Paragraph 4 of the Settlement Agreement from November 20, 2013, to January 14, 2014;

WHEREAS, to enable EPA to complete the section 316(b) rulemaking, including to finalize the language of the rule and the preamble and supporting documents for the rule, EPA has requested further modification of the Settlement Agreement to extend the date on or before which EPA is to take the action under Paragraph 4 of the Settlement Agreement to April 17, 2014, and Riverkeeper has consented to such a modification; and

WHEREAS, EPA does not intend to seek a further extension of the date by which EPA is to take the action under Paragraph 4 of the Settlement Agreement beyond April 17, 2014, and Riverkeeper does not intend to agree to any further extension of the deadline for EPA to complete the section 316(b) rulemaking beyond April 17, 2014;

NOW, THEREFORE, EPA and Riverkeeper, intending to be bound by this Fifth Amendment to the Settlement Agreement, hereby stipulate and agree as follows:

1. Paragraph 4 of the Settlement Agreement shall be amended to provide:

"No later than April 17, 2014, the EPA Administrator shall sign for publication in the Federal Register a notice of its final action pertaining to issuance of requirements for implementing section 316(b) of the CWA at existing facilities. EPA shall make a copy of the notice available to the

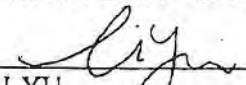
Cronin Plaintiffs, the SDNY Phase III Plaintiffs, and the SDNY Phase III
Intervenors within five business days following signature.”

2. Within 10 days of the execution of this Fifth Amendment, a link to a copy of this Fifth
Amendment shall be posted on the Office of Water website with an explanation of the reasons
for the extension.

FOR EPA:

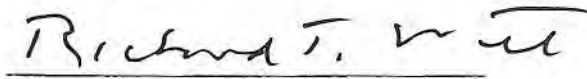
PREET BHARARA
United States Attorney
Southern District of New York

Dated: February 7, 2014



LI YU
Assistant United States Attorney
86 Chambers Street, Third Floor
New York, NY 10007
(212) 637-2734

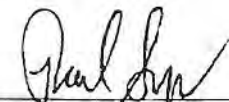
Dated: February 10 2014



RICHARD T. WITT
Office of General Counsel
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, N.W.
Washington, DC 20460

FOR RIVERKEEPER:

Dated: February 7, 2014



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REVIEW OF THE
2012 TEN-YEAR SITE PLANS
FOR FLORIDA'S ELECTRIC UTILITIES



FLORIDA PUBLIC SERVICE COMMISSION

TALLAHASSEE, FL
DECEMBER 2012

TABLE OF CONTENTS

| | |
|---|------------|
| TABLE OF CONTENTS | I |
| LIST OF FIGURES | III |
| LIST OF TABLES | V |
| LIST OF TEN-YEAR SITE PLAN UTILITIES | VI |
| LIST OF ACRONYMS | VII |
| EXECUTIVE SUMMARY | 1 |
| Growth in Demand and Capacity | 1 |
| Demand-Side Management | 2 |
| Fuel Diversity | 2 |
| New and Proposed EPA Rules..... | 4 |
| New Generation Facilities..... | 5 |
| Summary of the State of Florida | 6 |
| INTRODUCTION | 8 |
| Statutory Authority | 8 |
| Information Sources for the Report | 9 |
| Structure of the Report..... | 10 |
| Conclusions..... | 10 |
| STATEWIDE PERSPECTIVE | 11 |
| FLORIDA’S ELECTRICITY FORECAST | 12 |
| Customer Growth Projections | 12 |
| Seasonal Peak Demand Forecast | 14 |
| Demand Side Management | 15 |
| Projected Peak Demands..... | 17 |
| Annual Energy Consumption Forecasts..... | 18 |
| Historical Accuracy of Energy Forecasts..... | 19 |
| Reserve Margin Requirements..... | 20 |
| RENEWABLE GENERATION | 23 |
| Federal Legislation | 23 |
| State Legislation | 23 |
| Commission Rules | 24 |
| Renewable Payment Types | 24 |
| Renewable Resource Outlook..... | 26 |
| Existing Renewable Resources | 27 |
| Firm Capacity Contracts | 28 |
| Non-Firm Renewable Energy Generators..... | 29 |
| Utility-Owned Renewable Facilities | 30 |
| Existing Net Metering..... | 31 |
| Planned Renewables Additions..... | 32 |
| Updated Navigant Consulting Report | 34 |

TABLE OF CONTENTS (CONT.)

| | |
|---|------------|
| TRADITIONAL GENERATION | 36 |
| Fuel Price Forecasts | 36 |
| Fuel Diversity | 38 |
| Opportunities for Unit Modernization | 39 |
| Impact of EPA Regulations | 40 |
| Power Plant Siting Act..... | 42 |
| Transmission Capacity..... | 45 |
| UTILITY PERSPECTIVES | 46 |
| FLORIDA POWER AND LIGHT COMPANY (FPL) | 47 |
| PROGRESS ENERGY FLORIDA, INC. (PEF)..... | 53 |
| TAMPA ELECTRIC COMPANY (TECO)..... | 61 |
| GULF POWER COMPANY (GULF) | 67 |
| FLORIDA MUNICIPAL POWER AGENCY (FMPA)..... | 73 |
| GAINESVILLE REGIONAL UTILITIES (GRU)..... | 78 |
| JEA (FORMERLY JACKSONVILLE ELECTRIC AUTHORITY) | 83 |
| LAKELAND ELECTRIC (LAKELAND)..... | 89 |
| ORLANDO UTILITIES COMMISSION (OUC)..... | 94 |
| SEMINOLE ELECTRIC COOPERATIVE (SEC)..... | 99 |
| CITY OF TALLAHASSEE (TAL) | 105 |

LIST OF FIGURES

Statewide Perspective

| | |
|---|----|
| Figure 1. State of Florida: Natural Gas Usage (Total & Percent NEL) | 3 |
| Figure 2. State of Florida: Natural Gas Usage With Displaced Generation (Total & Percent NEL)..... | 4 |
| Figure 3. State of Florida: Existing and Projected Capacity | 7 |
| Figure 4. State of Florida: Percent State Net Energy for Load by Electric Utility (2011 Actual) | 9 |
| Figure 5. State of Florida: Annual Customer Growth Rate by Customer Class | 13 |
| Figure 6. State of Florida: Average Annual Residential Customer Energy Consumption..... | 14 |
| Figure 7. TYSP Utilities: Example Daily Load Curve | 15 |
| Figure 8. State of Florida: Historic & Projected Summer Peak Demand (With DSM Impacts)..... | 17 |
| Figure 9. State of Florida: Historic & Projected Winter Peak Demand (With DSM Impacts) | 18 |
| Figure 10. State of Florida: Historic & Projected Annual Energy for Load (With DSM Impacts) | 18 |
| Figure 11. State of Florida: Seasonal Reserve Margin (With LM/INT) | 20 |
| Figure 12. State of Florida: Seasonal Reserve Margin (Without LM/INT) | 21 |
| Figure 13. State of Florida: Seasonal Reserve Margin After Potential Unit Retirements (With LM/INT) | 22 |
| Figure 14. Investor Owned Utilities: Average Annual As-Available Energy Rates | 25 |
| Figure 15. Solar PV Output and Utility Seasonal Load Profiles..... | 35 |
| Figure 16. TYSP Utilities: Historic & Projected Weighted Average Fuel Prices (\$/MMBtu) | 37 |
| Figure 17. State of Florida: Net Energy for Load by Fuel Type..... | 38 |
| Figure 18. State of Florida: Net Energy for Load by Fuel Type After Generation Displacement..... | 39 |

Individual Utility Figures

| | |
|---|----|
| FPL Figure 1: Annual Customer Growth Rate by Customer Class | 47 |
| FPL Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts | 49 |
| FPL Figure 3. Seasonal Reserve Margin (With LM/INT) | 50 |
| FPL Figure 4. Seasonal Reserve Margin (Without LM/INT)..... | 51 |
| FPL Figure 5. Net Energy for Load by Fuel Type..... | 51 |
| PEF Figure 1. Annual Customer Growth Rate by Customer Class | 53 |
| PEF Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts | 55 |
| PEF Figure 3. Seasonal Reserve Margin (With LM/INT) | 56 |
| PEF Figure 4. Seasonal Reserve Margin (Without LM/INT)..... | 57 |
| PEF Figure 5. Seasonal Reserve Margin With Potential Unit Retirements / Delays (With LM/INT)..... | 58 |
| PEF Figure 6. Net Energy for Load by Fuel Type..... | 58 |
| PEF Figure 7. Net Energy for Load by Fuel Type with Displaced Generation | 59 |
| TECO Figure 1. Annual Customer Growth Rate by Customer Class | 61 |
| TECO Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts..... | 63 |
| TECO Figure 3. Seasonal Reserve Margin (With LM/INT) | 64 |
| TECO Figure 4. Seasonal Reserve Margin (Without LM/INT) | 65 |
| TECO Figure 5. Net Energy for Load by Fuel Type | 65 |
| GULF Figure 1. Annual Customer Growth Rate by Customer Class..... | 67 |
| GULF Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts..... | 69 |
| GULF Figure 3. Seasonal Reserve Margin..... | 70 |
| GULF Figure 4. Net Energy for Load by Fuel Type | 71 |
| GULF Figure 5. Net Energy for Load by Fuel Type with Displaced Generation..... | 71 |

LIST OF FIGURES (CONT.)

Individual Utility Figures

| | |
|---|-----|
| FMPA Figure 1. Annual Customer Growth Rate by Customer Class | 73 |
| FMPA Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts | 75 |
| FMPA Figure 3. Seasonal Reserve Margin | 76 |
| FMPA Figure 4. Net Energy for Load by Fuel Type..... | 77 |
| | |
| GRU Figure 1. Annual Customer Growth Rate by Customer Class..... | 78 |
| GRU Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts..... | 80 |
| GRU Figure 3. Seasonal Reserve Margin..... | 81 |
| GRU Figure 4. Net Energy for Load by Fuel Type | 82 |
| | |
| JEA Figure 1. Annual Customer Growth Rate by Customer Class | 83 |
| JEA Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts | 85 |
| JEA Figure 3. Seasonal Reserve Margin (With LM/INT)..... | 86 |
| JEA Figure 4. Seasonal Reserve Margin (Without LM/INT)..... | 87 |
| JEA Figure 5. Net Energy for Load by Fuel Type..... | 87 |
| | |
| LAK Figure 1. Annual Customer Growth Rate by Customer Class | 89 |
| LAK Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts | 91 |
| LAK Figure 3. Seasonal Reserve Margin..... | 92 |
| LAK Figure 4. Net Energy for Load by Fuel Type | 93 |
| | |
| OUC Figure 1. Annual Customer Growth Rate by Customer Class..... | 94 |
| OUC Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts..... | 96 |
| OUC Figure 3. Seasonal Reserve Margin..... | 97 |
| OUC Figure 4. Net Energy for Load by Fuel Type | 98 |
| | |
| SEC Figure 1. Annual Customer Growth Rate by Customer Class..... | 99 |
| SEC Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts..... | 101 |
| SEC Figure 3. Seasonal Reserve Margin (With LM/INT)..... | 102 |
| SEC Figure 4. Seasonal Reserve Margin (Without LM/INT) | 103 |
| SEC Figure 5. Net Energy for Load by Fuel Type | 104 |
| | |
| TAL Figure 1. Annual Customer Growth Rate by Customer Class | 105 |
| TAL Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts | 107 |
| TAL Figure 3. Seasonal Reserve Margin (With LM/INT) | 108 |
| TAL Figure 4. Seasonal Reserve Margin (Without LM/INT)..... | 109 |
| TAL Figure 5. Net Energy for Load by Fuel Type..... | 109 |

LIST OF TABLES

Statewide Perspective

| | |
|---|----|
| Table 1. TYSP Utilities: Preliminary Estimates of EPA Rule Compliance Cost..... | 5 |
| Table 2. State of Florida: Proposed Generating Units Without PPSA Certification..... | 6 |
| Table 3. State of Florida: Proposed Transmission Without TLISA Certification..... | 6 |
| Table 4. State of Florida: Customer Numbers and Energy Usage (2011 Actual)..... | 12 |
| Table 5. TYSP Utilities: Historical Accuracy of Net Energy for Load Forecasts..... | 19 |
| Table 6. State of Florida: Market Outlook for Renewable Energy..... | 27 |
| Table 7. State of Florida: Existing Renewable Generation Capacity..... | 28 |
| Table 8. State of Florida: Firm Renewable Resources..... | 29 |
| Table 9. State of Florida: Non-Firm Renewable Resources..... | 30 |
| Table 10. State of Florida: Utility Owned Renewable Generation..... | 31 |
| Table 11. State of Florida: Customer Owned Renewable Generation..... | 32 |
| Table 12. State of Florida: Planned Renewable Resource Net Additions..... | 32 |
| Table 13. State of Florida: Planned Firm Renewable Resources..... | 33 |
| Table 14. State of Florida: Planned Non-Firm Renewable Resources..... | 34 |
| Table 15. State of Florida: Potential Steam Units for Modernization..... | 40 |
| Table 16. TYSP Utilities: Preliminary Estimates of EPA Rule Compliance Cost..... | 41 |
| Table 17. TYSP Utilities: Preliminary Estimates of EPA Rule Compliance Costs by Unit..... | 42 |
| Table 18. State of Florida: Projected Units Requiring Power Plant Siting Act Certification..... | 43 |
| Table 19. State of Florida: Projected Nuclear Uprates & New Units..... | 43 |
| Table 20. State of Florida: Projected New Combustion Turbines..... | 44 |
| Table 21. State of Florida: Projected New Combined Cycle Units..... | 44 |
| Table 22. State of Florida: Proposed Transmission Requiring Transmission Line Siting Act Certification..... | 45 |

Individual Utility Tables

| | |
|---|-----|
| FPL Table 1. Planned Generation Additions..... | 52 |
| PEF Table 1. Planned Generation Additions..... | 60 |
| TECO Table 1. Planned Generation Additions..... | 66 |
| OUC Table 1. Planned Generation Additions..... | 98 |
| SEC Table 1. Planned Generation Additions..... | 104 |

LIST OF TEN-YEAR SITE PLAN UTILITIES

Investor-Owned Electric Utilities

| | |
|------|-------------------------|
| FPL | Florida Power & Light |
| PEF | Progress Energy Florida |
| TECO | Tampa Electric Company |
| GULF | Gulf Power Company |

Municipal Electric Utilities & Rural Electric Cooperatives

| | |
|------|--|
| FMPA | Florida Municipal Power Agency |
| GRU | Gainesville Regional Utilities |
| JEA | JEA (formerly Jacksonville Electric Authority) |
| LAK | Lakeland Electric |
| OUC | Orlando Utilities Commission |
| SEC | Seminole Electric Cooperative |
| TAL | City of Tallahassee |

LIST OF ACRONYMS

| | |
|--------|---|
| AB | Agricultural Byproducts (Biomass) |
| CC | Combined Cycle |
| CR3 | Crystal River 3 Nuclear Unit |
| CT | Combustion Turbine |
| DACS | Department of Agriculture and Consumer Services |
| DEP | Department of Environmental Protection |
| DOE | Department of Energy |
| EIA | Energy Information Agency |
| EPA | Environmental Protection Agency |
| F.A.C. | Florida Administrative Code |
| F.S. | Florida Statutes |
| FEECA | Florida Energy Efficiency & Conservation Act |
| FERC | Federal Energy Regulatory Commission |
| FRCC | Florida Reliability Coordinating Council |
| INT | Interruptible Load |
| IOU | Investor-Owned Utility |
| IPP | Independent Power Producer |
| LFG | Landfill Gas |
| LM | Load Management |
| MMBtu | Million British Thermal Units |
| MSW | Municipal Solid Waste |
| MW | Megawatts |
| MWh | Megawatt-hours |
| NEL | Net Energy for Load |
| NUG | Non-Utility Generators |
| NUG | Non-Utility Generator |
| OBG | Other Biogas (Biomass) |
| PPSA | Power Plant Siting Act |
| QF | Qualifying Facilities |
| REC | Renewable Energy Credits |
| RFP | Request for Proposals |
| RPS | Renewable Portfolio Standard |
| SUN | Solar |
| TLSA | Transmission Line Siting Act |
| TYSP | Ten-Year Site Plan |
| WAT | Hydro / Water |
| WDS | Wood Waste Solids (Biomass) |
| WH | Waste Heat |

EXECUTIVE SUMMARY

Pursuant to Section 186.801(1), Florida Statutes (F.S.), each generating electric utility must submit to the Florida Public Service Commission (Commission) a Ten-Year Site Plan (TYSP or Plan) which estimates the utility's power generating needs and the general locations of its proposed power plant sites over a ten-year planning horizon. The Commission is required to perform a preliminary study of each plan and classify each one as either "suitable" or "unsuitable." This document represents the study of the 2012 Ten-Year Site Plans for Florida's electric utilities. All findings of the Commission are made available to the Florida Department of Environmental Protection (DEP) for its consideration at any subsequent electrical power plant site certification proceedings pursuant to the Power Plant Siting Act (PPSA)¹. In addition, this document is forwarded to the Department of Agriculture and Consumer Services (DACS) pursuant to Section 377.703(2)(e), F.S., which requires the Commission to provide a report on electricity and natural gas forecasts. A copy of this report is also posted on the Commission's website and is available to the public.

The Commission has reviewed the Ten-Year Site Plans filed by the eleven reporting utilities, as well as supplemental data provided through data requests, and finds that the projections of load growth appear reasonable.² The reporting utilities have identified sufficient additional generation facilities to maintain an adequate supply of electricity at a reasonable cost. Therefore, the Commission finds the 2012 Ten-Year Site Plans filed by the reporting utilities, augmented with supplemental data provided, to be suitable for planning purposes.

Since the TYSP is not a binding plan of action for electric utilities, the Commission's classification of these Plans as suitable or unsuitable does not constitute a finding or determination in docketed matters before the Commission. The Commission may address any concerns raised by a utility's TYSP at a public hearing.

Growth in Demand and Capacity

Customer growth remained positive in the last year, and is anticipated to continue at a somewhat slower pace than projected last year, but still below historic levels. Between 2012 and 2021, the annual average growth rate for residential customers is projected at 1.26 percent, slightly below last year's projection of 1.37 percent for 2011 through 2020, and down significantly from the 2.36 percent rate seen for the period 2002 through 2007. In contrast, commercial and industrial customers show a slightly increased rate of growth, but also remain below historic levels.

Generating capacity within the State of Florida is anticipated to grow to meet the increase in customer demand, with approximately 7,200 megawatts (MW) of new generation added over the planning horizon. This figure represents a decrease from last year's TYSPs, which estimated

¹ The Power Plant Siting Act is Sections 403.501 through 403.518, Florida Statutes

² Investor-owned utilities (IOUs) filing 2012 Ten-Year Site Plans include Florida Power & Light Company (FPL) Progress Energy Florida, Inc. (PEF), Tampa Electric Company (TECO), and Gulf Power Company (Gulf). Municipal utilities filing 2012 Ten-Year Site Plans include Florida Municipal Power Agency (FMPA), Orlando Utilities Commission (OUC), City of Lakeland (LAK), City of Tallahassee (TAL), JEA (formerly Jacksonville Electric Authority), and Gainesville Regional Utilities (GRU). Seminole Electric Cooperative (SEC) also filed a 2012 Ten-Year Site Plan.

the need for about 10,300 MW new generation. This reduction in the estimated need for new capacity is primarily due to several units being constructed in 2012, and others being delayed beyond the ten year period due to slightly lower load forecasts. The 2012 Plans include retirements and uprates of existing units, along with new generating units to be added during the ten-year period. As in previous planning cycles, natural gas-fired generating units make up a majority of the generation additions and now represent a majority of energy produced within the state.

All TYSPs are subject to modification due to factors such as changes to fuel price forecast, energy demand forecasts, shifts in energy policy, or other factors. A notable change to the 2012 TYSPs is PEF's delay of the Levy 1 nuclear unit, which was originally planned to start commercial service in June 2021, but has been delayed until June 2024. PEF is anticipated to update their 2013 TYSP to reflect this change in projected installed capacity. While the delay is a significant impact on PEF's reserve margin in 2021, the statewide reserve margin is projected to be adequate to provide reliable service with the planned delay of the Levy nuclear units.

Demand-Side Management

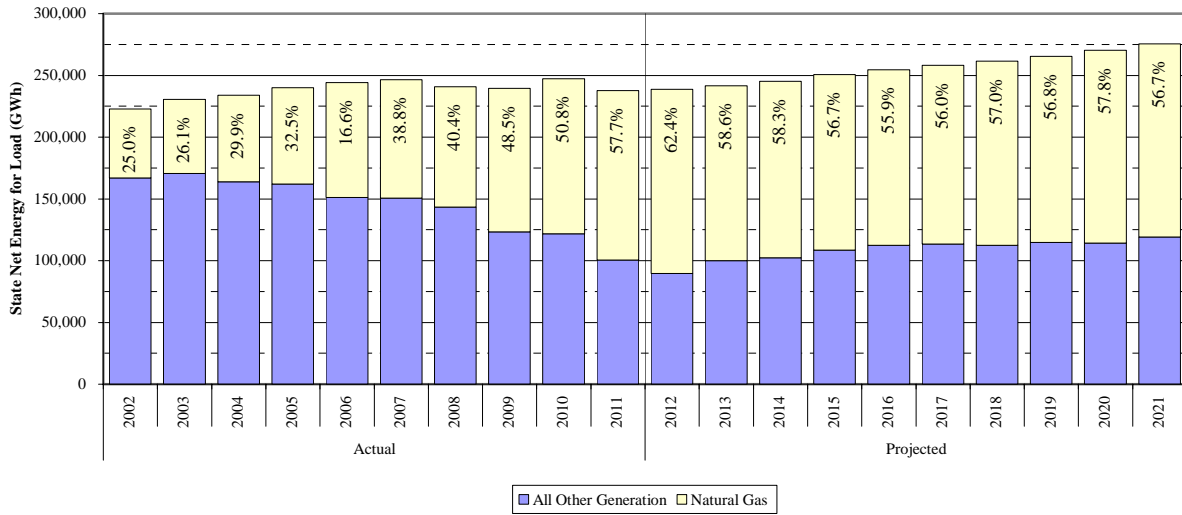
The first step in any resource planning process is to focus on the efficient use of electricity by consumers. Government mandates, such as building codes and appliance efficiency standards, provide the starting point for increasing energy efficiency. Customer choice is the next step in reducing the state's dependence upon expensive fuels and lowering greenhouse gas emissions. Consequently, educating consumers to make smart energy choices is particularly important. Finally, Florida's utilities can efficiently serve their customers by offering demand-side management (DSM) and conservation programs designed to use fewer resources at lower cost.

Florida's utilities project considerable demand and energy savings over the planning period, with conservation and load management programs by 2021 reducing the system's total seasonal peak demand by over 9,000 MW, or 15 percent for summer and winter, and reducing annual energy consumption by over 15,000 GWh or 5 percent.

Fuel Diversity

Natural gas is anticipated to remain the dominant fuel over the planning horizon, with usage in 2011 increasing to 57.7 percent of the state's net energy for load (NEL), up from 50.8 percent of NEL in 2010. Figure 1 below illustrates the increase in the role of natural gas in the state's electricity production during the last ten years, and the projected use during the next decade. Based on the Florida Reliability Coordinating Council (FRCC) 2012 Load and Resource Plan, state-wide natural gas usage is expected to peak in 2012, and then slowly decline throughout the planning period, to 56.7 percent in 2021.

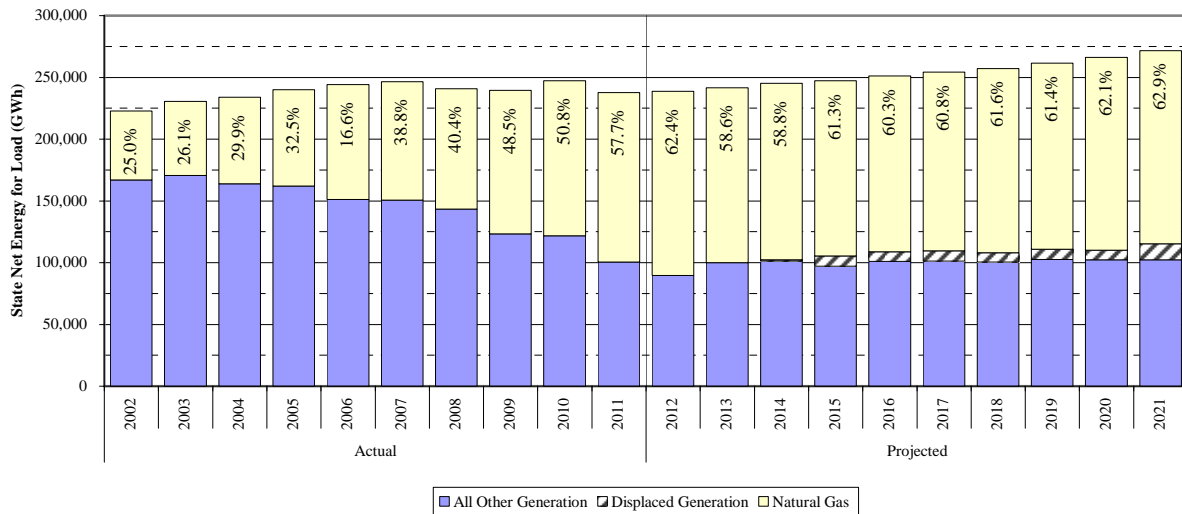
Figure 1. State of Florida: Natural Gas Usage (Total & Percent NEL)



Source: FRCC 2004 - 2012 Load and Resource Plans

While natural gas usage is projected to remain relatively level over the planning period, this situation is due to projected increases in nuclear generation, and a limited impact of new environmental compliance requirements. The FRCC 2012 Load and Resource Plan includes the addition of the Levy 1 nuclear unit in 2021, which has since been delayed until 2024. Also, this projection assumes the return to service in November 2014 of PEF’s Crystal River 3 nuclear unit (CR3). However, no decision has been made regarding the repair or retirement of CR3. Furthermore, as discussed at the 2012 TYSP Workshop, PEF’s Crystal River 1 & 2 coal units, along with GULF’s Lansing Smith 1 & 2 coal units, may face challenges in economically meeting new environmental compliance requirements. If the facilities are unable to install sufficient emissions controls, they would face retirement as early as 2015. If the projected generation associated with these nuclear and coal units is displaced by natural gas, it would have the net effect of increasing natural gas’ share of state electric generation to 62.9 percent by 2021, as shown in Figure 2 below.

Figure 2. State of Florida: Natural Gas Usage With Displaced Generation (Total & Percent NEL)



Source: FRCC 2004 - 2012 Load and Resource Plans, PEF 2012 TYSP, Responses to Staff Data Requests.

In an attempt to reduce natural gas consumption, Florida’s utilities have encouraged other energy resources, including renewable energy and nuclear generation. Approximately 1,421 MW of renewable generation is currently operating in Florida, an increase of about 138 MW from the previous year. Presently, municipal solid waste (MSW) and biomass each represent roughly a third of renewable generation in Florida. Other major types of renewable generation operating in the state include waste heat, hydroelectric, landfill gas, and solar.

Over the planning horizon, approximately 957 MW of additional renewable generation is planned in Florida, an increase of 51 MW from last year. The majority of these additions are solar and biomass. While these new projects represent a significant increase from the existing total, renewable generation continues to provide a relatively small contribution towards the reduction of our state’s reliance on fossil fuels.

While no new nuclear units are projected until 2022, uprates for all five existing nuclear units have been approved by the Commission, representing an increase of approximately 600 MW. Extended outages associated with unit uprates and other major maintenance work has reduced nuclear generation, and is projected to reduce nuclear’s contribution to annual energy in the near future. One of the nuclear units, CR3, has been offline since 2009 due to a delamination of the concrete containment structure discovered during a steam generator replacement project. The unit, including the 154 MW of uprated capacity, is currently scheduled to return to service in the end of 2014. Currently four new nuclear units, Turkey Point 6 & 7, and Levy 1 & 2, totaling over 4,000 MW generation are planned outside of the ten-year horizon.

New and Proposed EPA Rules

Florida’s electric utilities must also consider environmental concerns regarding existing and planned generation to meet Florida’s electric needs. The Environmental Protection Agency

(EPA) has finalized or proposed several new rules in the last year that will have an impact on Florida’s existing generation fleet, as well as on its proposed new facilities.

The new or proposed EPA rules limit emissions from existing power plants on a variety of pollutants, including mercury, other heavy metals, organic toxics, particulates, sulfur oxides, and nitrogen oxides. While many facilities within the state already have sufficient emissions control technologies to address these rules, some will require installation of new equipment to bring emissions into compliance. Other rules address concerns relating to cooling water’s impact on aquatic life, and the disposal of coal ash. All of these activities will require investment and potential for extended outages of the relevant generating units, which will require careful planning to allow for a minimum impact on system reliability.

At this time, a final estimate of costs and units affected is not available, as some of the proposed rules are not yet final. Several of the TYSP utilities have provided preliminary estimates based upon known and proposed rule language, and are shown in Table 1 below.

Table 1. TYSP Utilities: Preliminary Estimates of EPA Rule Compliance Cost

| Utility | Preliminary Total Cost Estimates* |
|--|--------------------------------------|
| | (\$ Millions) |
| Florida Power & Light | \$348 - \$1,741 |
| Progress Energy Florida | \$165 - \$1,330 |
| Tampa Electric Company | \$763 |
| Gulf Power Company | \$1,270 - \$2,737 |
| Florida Municipal Power Agency | \$39 |
| Gainesville Regional Utilities | Not Available |
| JEA | Not Available |
| Lakeland Electric | Not Available |
| Orlando Utilities Commission | \$157 |
| Seminole Electric Cooperative | Not Available |
| City of Tallahassee | \$5 |
| Total of All Utilities | \$2,747 - \$6,772 |
| * These estimates are not final, and may not include all rules. Source: Responses to Staff’s Data Requests. | |

New Generation Facilities

The State of Florida has a total summer generating capacity of 56,973 MW installed as of January 1, 2012. A total of 7,200 MW of new generation units are planned in the ten-year period, all of which will be natural gas-fired units. Other impacts noted in the report reflect changes to existing units and/or purchased power agreements.

As noted previously, the primary purpose of this review of the utilities’ TYSPs is to provide information regarding new electric power plants to the DEP for its use in the certification process. Table 2 displays those generation facilities included in the 2012 TYSPs that have not yet received a certification under the PPSA by the Commission. Certification is generally anticipated at four years in advance of the in-service date for a natural gas-fired combined cycle unit. TECO has recently filed a Request for Proposals (RFP) for their

conversion to combined cycle configuration of their existing Polk Power Station units 2 through 5, and filed a petition for a determination of need on September 12, 2012.

Table 2. State of Florida: Proposed Generating Units Without PPSA Certification

| Utility | Generating Unit Name | Unit Type | Fuel Type | Summer Capacity (MW) | In-Service Date |
|---------|----------------------|-----------|-----------|----------------------|-----------------|
| TECO | Polk 2-5 CC | CC | NG | 1,063 | Jan 2017 |
| PEF | Unknown | CC | NG | 767 | Jun 2019 |
| SEC | Unnamed CC1 | CC | NG | 196 | Dec 2020 |
| SEC | Unnamed CC2 | CC | NG | 196 | Dec 2020 |
| SEC | Unnamed CC3 | CC | NG | 196 | Dec 2021 |

Source: Utilities 2012 TYSP

In addition to generating units, transmission lines that will require the Commission’s certification under the Transmission Line Siting Act (TLSA) are projected during the planning period. Table 3 below details the only TLSA project included in the utility’s plans, which is associated with TECO’s combined cycle conversion at the Polk Power Station.

Table 3. State of Florida: Proposed Transmission Without TLSA Certification

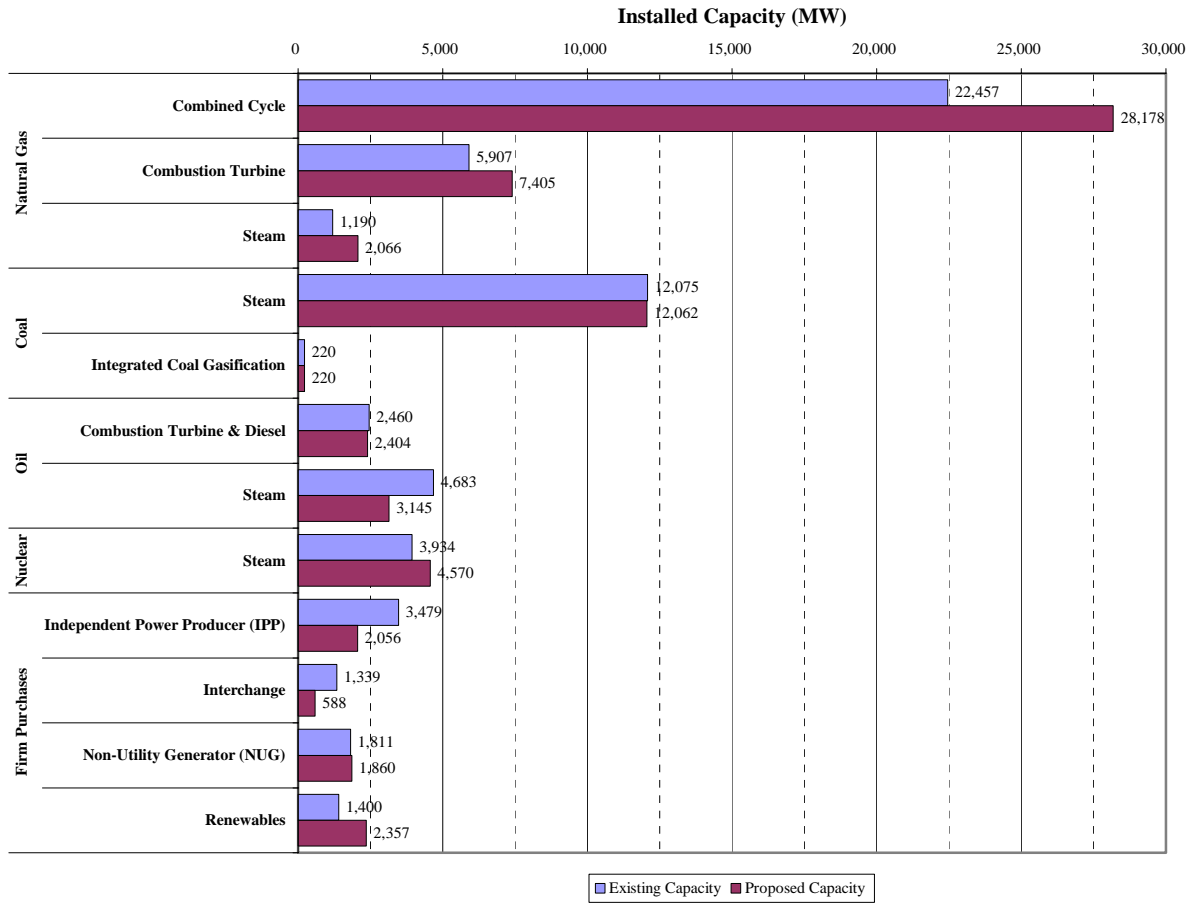
| Utility | Transmission Line | Line Length (Miles) | Nominal Voltage (kV) | Commercial In-Service Date |
|---------|---------------------|---------------------|----------------------|----------------------------|
| TECO | Polk-Aspen-FishHawk | 62.5 | 230 | 2017 |

Source: Utilities 2012 TYSP

Summary of the State of Florida

Figure 3 below illustrates the present and future aggregate capacity mix. The capacity values in Figure 3 incorporate all proposed additions, changes, and retirements contained in the reporting utilities’ 2012 Ten-Year Site Plans.

Figure 3. State of Florida: Existing and Projected Capacity



Source: FRCC 2012 Load and Resource Plan, Responses to Staff Data Requests

INTRODUCTION

The Ten-Year Site Plans of Florida's electric utilities are designed to give state, regional, and local agencies advance notice of proposed power plants and transmission facilities. The Commission receives comments from these agencies regarding any issues with which they may have concerns. Because the TYSPs are considered to be planning documents and can contain tentative data, they may not necessarily contain sufficient information to allow regional planning councils, water management districts, and other reviewing agencies to evaluate site-specific issues within their respective jurisdictions. Each utility is responsible for providing detailed information based on individual assessments during certification proceedings under the Power Plant Siting Act (PPSA), Sections 403.501-403.518, F.S., or the Transmission Line Siting Act (TLSA), Sections 403.52-403.5365, F.S. In addition, other regulatory processes may require utilities to provide additional information as needed.

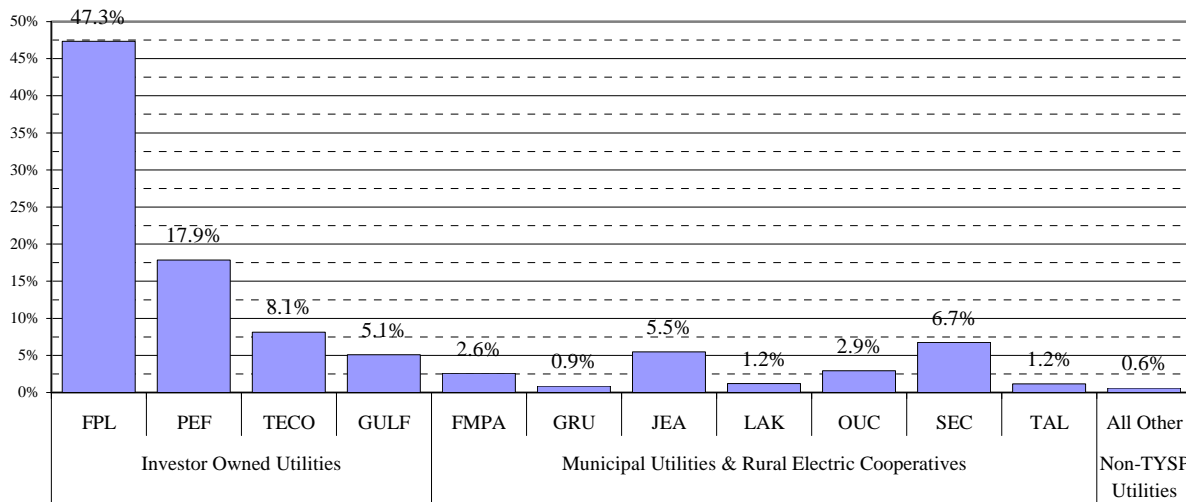
Statutory Authority

Section 186.801, F.S., requires that all major generating electric utilities submit a TYSP to the Commission for annual review. Section 377.703(2)(e), F.S., requires the Commission to analyze these plans and provide natural gas and electricity forecasts to the Department of Agriculture and Consumer Services (DACS). The Commission has adopted Rules 25-22.070 through 25-22.072, Florida Administrative Code (F.A.C.) in order to fulfill these statutory requirements.

Florida is served by 58 electric utilities, including 5 investor-owned utilities (IOUs), 35 municipal utilities, and 18 rural electric cooperatives. Only generating electric utilities with an existing capacity above 250 megawatts or a planned unit with a capacity of 75 MW or greater are required to file with the Commission a TYSP, at least once every two years. In 2012, eleven utilities filed TYSPs, including 4 IOUs, 6 municipal utilities, and 1 rural electric cooperative.

Figure 4 below illustrates each TYSP utility's representative share of the state's net energy for load for 2011. In total, the investor-owned TYSP utilities represent 78 percent of net energy for load, with the remaining TYSP utilities contributing 21 percent. Those utilities which are not required to file a TYSP make up the remaining 1 percent.

Figure 4. State of Florida: Percent State Net Energy for Load by Electric Utility (2011 Actual)



Source: FRCC 2012 Load & Resource Plan, Utilities 2012 TYSPs

As outlined in the Commission’s rules, each utility’s TYSP contains projections of the utility’s electric power needs, fuel requirements, and general location of proposed power plant sites and major transmission facilities. The utilities provide historic and projected information on existing generating capacity, customer base and energy usage, impact of demand-side management, fuel consumption, fuel diversity, anticipated reserve margin, and proposed new generating units and transmission.

In accordance with Section 186.801, F.S., the Commission performs a preliminary study of each TYSP and makes a determination as to whether it is suitable or unsuitable. This determination is non-binding, and is made in recognition that the information provided is tentative, and is subject to change by the utility upon written notice. The results of the Commission’s study are contained in this report, Review of the 2012 Ten-Year Site Plans, and are forwarded to the DEP for use in subsequent power plant siting proceedings.

Information Sources for the Report

Contained in each utility’s TYSP is a series of required tables which provide detailed information on a number of items. This information, supplemented by additional data requests, provides the basis of the Commission’s review.

The Florida Reliability Coordinating Council (FRCC) is also an important source of information for the Commission’s review. Each year, the FRCC publishes its Regional Load and Resource Plan which contains aggregate data on demand and energy, capacity and reserves, and proposed new generating units and transmission line additions, both for Peninsular Florida and for the state as a whole. In addition to its *2012 Regional Load and Resource Plan*, the Commission used the FRCC’s *2012 Reliability Assessment* as a resource in the production of this review. The Commission held a public workshop on August 13, 2012, to facilitate discussion of

the annual planning process and the Regional Load & Resource Plan and to allow for public comments on the TYSPs that were filed with the Commission.

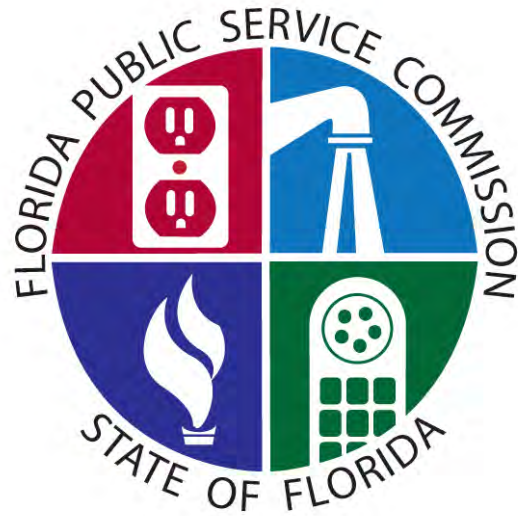
Structure of the Report

This report is divided into multiple sections. The Statewide perspective provides a look at the impact of all planned unit additions to the State as a whole, and is intended as a resource for those seeking understanding of Florida's energy systems. Individual utility reports focus on the issues facing each electric utility and its unique situation. Lastly, Appendix A contains comments received from various review agencies, local governments, and others that have been collected and included in this report.

Conclusions

As discussed in each of the individual utility's reviews, the Commission's review of the eleven reporting utilities' 2012 TYSPs finds them all suitable for planning purposes. Through the review process, the Commission has determined that the projections of load growth appear reasonable, and that reporting utilities have identified sufficient additional generation facilities to maintain an adequate supply of electricity at a reasonable cost.

Since the TYSP is not a binding plan of action for electric utilities, the Commission's classification of these Plans as suitable or unsuitable does not constitute a finding or determination in any docketed matters before the Commission. The Commission may address any concerns raised by a utility's TYSP at a public hearing.



Statewide Perspective

FLORIDA’S ELECTRICITY FORECAST

Forecasting load growth is the first component of system planning for Florida’s electric utilities. In order to maintain a reliable system, utilities must stay abreast of changes in customer base as well as trends in demand and energy consumption. Utilities perform load and energy forecasts to estimate the amount and timing of future capacity needs.

Historical data forms the foundation for utility load and energy forecasts. These sets of data include energy usage patterns, trends in population growth, economic variables, and weather data for each utility’s service territory. Econometric forecast models are then used to quantify the historical impact of population growth, economic conditions, and weather on energy usage patterns.

Finally, sets of forecast assumptions on future population growth, economic conditions, and weather are assembled and together with the forecast models, yield the final demand and energy forecasts. Each utility’s peak demand and energy forecasts serve as a starting point for determining if and when new capacity additions are needed to reliably and efficiently serve the anticipated load.

Customer Growth Projections

The most basic starting point in the utility’s forecast modeling is the projected number and type of electric customers. Florida is dominated by the residential class, which makes up a majority in both number of customers and energy sales, as shown in Table 4 below. As a result, Florida’s electrical demands and energy requirements heavily focus on residential use patterns. While commercial and industrial customers may be lower in number, they typically consume far more per customer, and combined represent the other half of energy consumed in Florida. Compared to last year, Florida experienced a slight growth in the number of customers, but an overall decline in energy consumption.

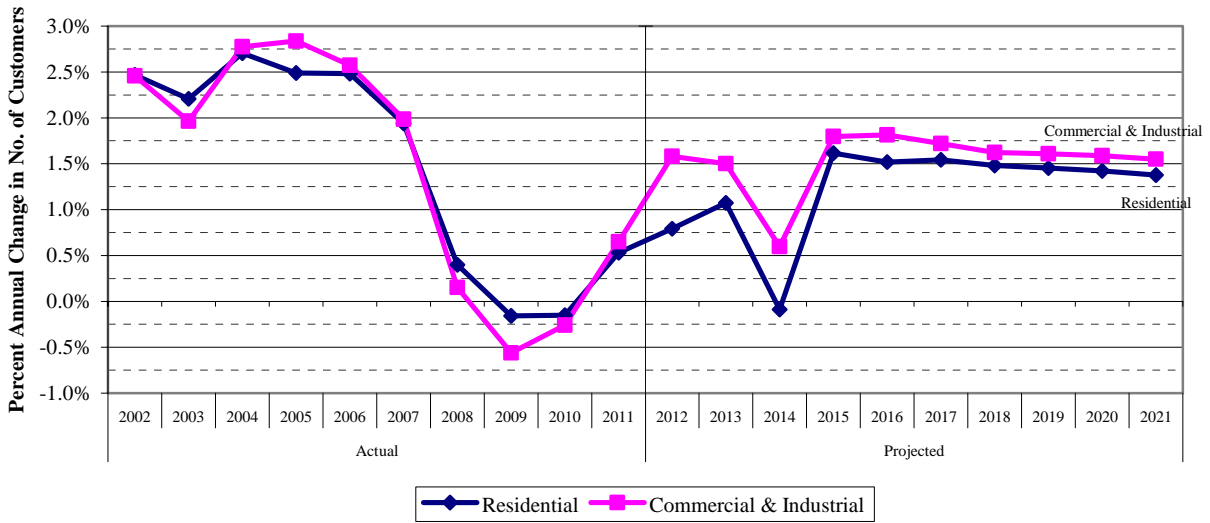
Table 4. State of Florida: Customer Numbers and Energy Usage (2011 Actual)

| Customer Class | Number of Customers | % of Customers | Energy Sales (GWh) | % of Sales |
|----------------|---------------------|----------------|--------------------|------------|
| Residential | 8,369,607 | 88.71% | 113,554 | 52.97% |
| Commercial | 1,037,584 | 11.00% | 80,284 | 37.45% |
| Industrial | 27,202 | 0.29% | 20,556 | 9.59% |
| Total | 9,434,393 | | 214,394 | |

Source: FRCC 2012 Load & Resource Plan

Florida’s annual customer growth rate in 2011 was positive but significantly below historic norms for all customer classes, and is not anticipated to return to its previous rate during the planning period. Figure 5 shows the actual annual growth rate between 2002 and 2011, and the projected customer growth between 2012 and 2021. The historic data clearly shows the decline from high annual customer growth, resulting in significantly lower or even negative customer growth.

Figure 5. State of Florida: Annual Customer Growth Rate by Customer Class

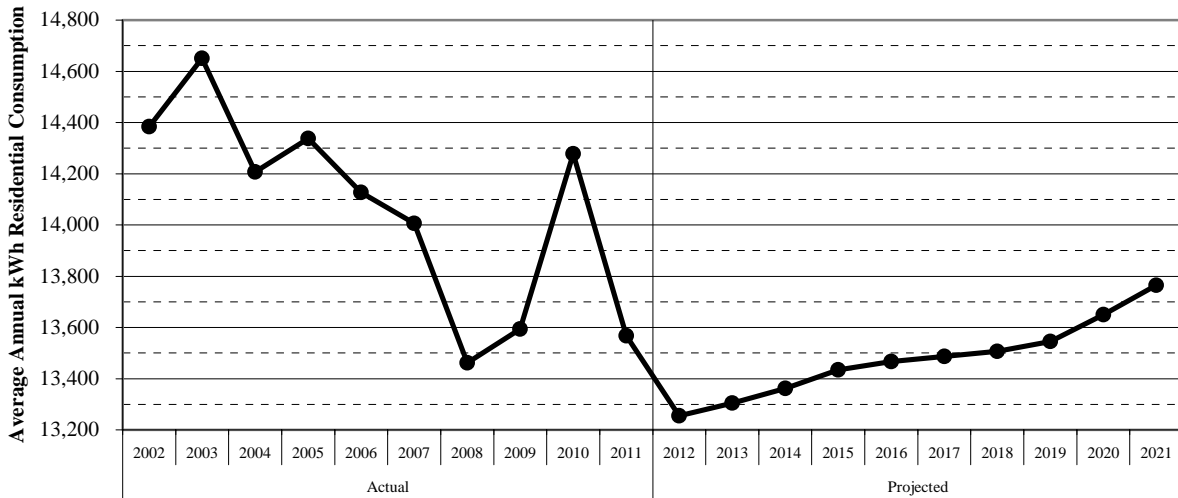


Source: FRCC 2012 Load & Resource Plan

Customer growth is projected to increase and remain higher throughout the planning period, with the exception of 2014. In 2014, both FMPA and SEC note that several member utilities are anticipated to change their service agreements, including the City of Lake Worth (which would leave FMPA’s All Requirements Power Supply Project) and Lee County Electric Cooperative (which would no longer be served by SEC), resulting in the declining customer growth seen above in Figure 5.

Florida’s energy requirements are heavily dependent on the energy consumption behaviors of residential customers. This relationship is a result of the fact that close to 90 percent of electric customers in Florida are residential accounts, with these customers purchasing more than half the energy sold in the state in 2011. Figure 6 shows the actual per-customer consumption from 2002 through 2011, as well as the projection for the period 2012 through 2021. Actual usage has generally decreased, excluding a spike in 2010 that is attributed to extreme winter weather. Per-customer residential sales are expected to decline in 2012, but then slowly rebound throughout the planning period.

Figure 6. State of Florida: Average Annual Residential Customer Energy Consumption



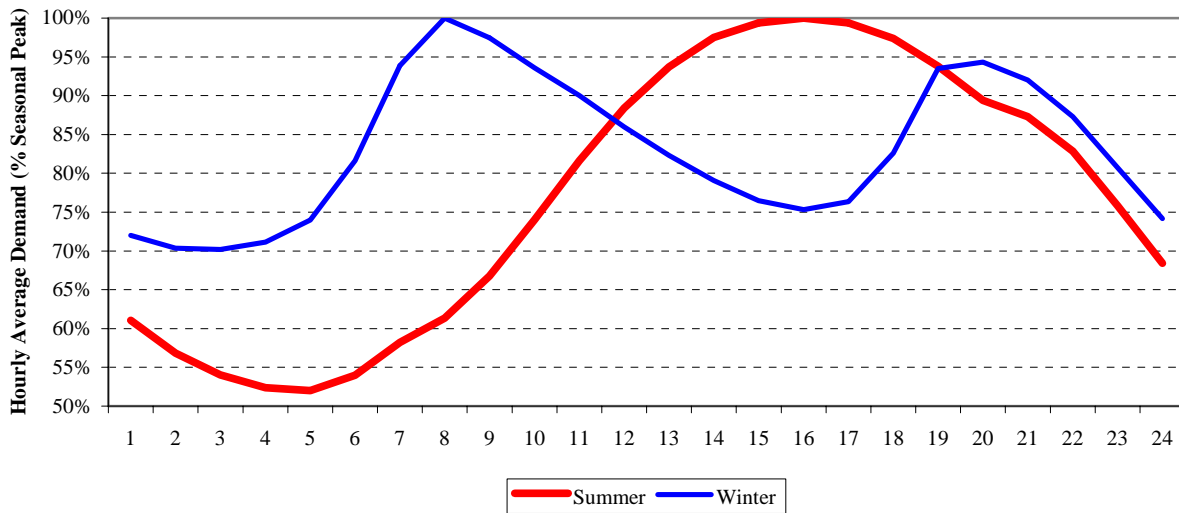
Source: FRCC 2012 Load & Resource Plan

Seasonal Peak Demand Forecast

Since there exists no economically feasible means to store electricity at the grid-scale, electric utilities must supply electricity near instantaneously to the time of its consumption. For a majority of the time, system demand is significantly less than the daily peak. However, system peak demand determines the timing of new generation needs, and is driven by seasonal weather patterns. With a growing customer base dominated by residential customers, both the rate of growth and usage patterns are important considerations in planning sufficient future generation to meet the state’s projected customer load.

Figure 7 illustrates typical daily load curves for each season, which shows evidence of the influence of residential customers. In summer, air-conditioning demand causes a steady climb in the morning and a peak in early evening, before declining into the evening. In contrast, winter’s demand curve is dominated by electric heating and water heating, causing a rapid peak in mid-morning and a second peak in the late evening.

Figure 7. TYSP Utilities: Example Daily Load Curve



Source: Responses to Staff Data Request (2011)

Florida is typically a summer-peaking state, meaning that the summer peak demand generally controls the amount of generation required. While winter peak demands tend to be greater than summer, the higher peak is offset by the increased winter rating of power plants, which can take advantage of lower ambient air and water temperatures to produce more electricity from the same generating unit. During summer peak demand, higher temperatures instead can decrease generation, as high water temperatures may reduce not only the quality, but quantity of cooling water available based on environmental permits.

As with daily load, there is a great variation in seasonal peak load. Generally speaking, Florida's summer season is significantly longer than its winter. The periods between the seasonal peaks are referred to as "shoulder months," and utilities take advantage of these periods of relatively low demand to perform maintenance without impacting their ability to meet the daily peak demand.

In general, a major controlling factor to seasonal peak demand is short-term weather conditions. While utilities forecast annual peak demand based upon historic factors, customer counts, and normalized weather patterns, utilities also continuously monitor weather conditions in their service territory and prepare for any increases (or decreases) in customer demand. By close monitoring of the weather situation, utilities can fine tune maintenance schedules to ensure the highest unit availability during time of the utility's peak demand.

Demand Side Management

The first step in any resource planning process is to focus on the efficient use of electricity by consumers. Government mandates, such as building codes and appliance efficiency standards, provide the starting point for increasing energy efficiency. Customer choice is the next step in reducing the state's dependence upon expensive fuels and lowering greenhouse gas emissions. Consequently, educating consumers to make smart energy choices is

particularly important. Finally, Florida's utilities can efficiently serve their customers by offering DSM and conservation programs designed to use fewer resources at lower cost.

The Florida Legislature directed the Commission to encourage utilities to decrease the growth in seasonal peak demand and energy consumption in Sections 366.80 through 366.85 and Section 403.519, F.S., known as the Florida Energy Efficiency and Conservation Act (FEECA). Under FEECA, the Commission is required to set goals for demand and energy reduction for 7 electric utilities, namely the 5 investor-owned electric utilities (4 of which file TYSPs, the exception being Florida Public Utility Company, which is a non-generating utility) and 2 municipal electric utilities (JEA and OUC). These utilities represent 87 percent of sales in Florida.

DSM Programs generally fall into three categories: interruptible/curtailable load (INT), load management (LM), and conservation. The first two are generally considered dispatchable, meaning that the utility can call upon them during a period of peak demand, but otherwise they are not in active use. In contrast, conservation measures are considered passive and are always working to reduce customer demand.

Interruptible or curtailable load is achieved through the use of agreements with large customers to allow the utility to interrupt selected portions of the customer's load during periods of peak demand. Interrupted or curtailed customers could make up for this generation by reducing their own industrial processes or by activating back-up generation. In exchange for the ability to reduce their electrical load, the utility usually offers such customers a discounted rate for energy or other credits which are paid for by all customers.

Load management programs involve the installation of a device that can interrupt a customer's appliance(s) for a short duration during a period of peak demand. These interruptions tend to have less notice than those provided to interruptible customers, and generally do not fully disconnect customers, but interrupt an individual appliance. Normally, interruptions are kept to short periods and are cycled between groups of customers. Due to the nature of the program, certain devices would be more appropriate to handle different seasonal demands. For example, air conditioning units would be interrupted to reduce a summer peak, while water heaters being interrupted may contribute more towards reducing a winter peak. As of 2012, over 7,165 MW of interruptible load and load management is available for summer peak, and is anticipated to expand to 9,219 MW by 2021.

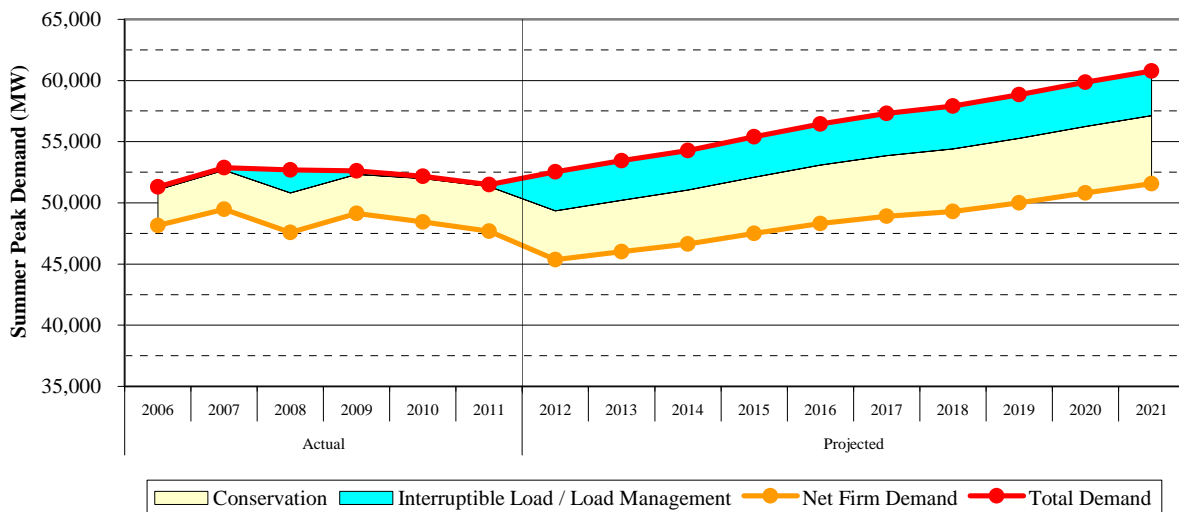
In addition to active measures, customer-based conservation measures can have an impact on peak demand without requiring activation by the utility. These passive conservation measures typically involve improving a home or business' building envelope, such as greater insulation and energy-efficient windows, or installing more efficient appliances. These energy efficiency improvements decrease the customer's load at all times without requiring an interruption or reduction in service, and also have an impact on annual energy consumption.

The seven FEECA utilities currently offer DSM programs to residential, commercial, and industrial programs. Energy audit programs provide a first step for utilities and customers to evaluate conservation opportunities and serve as the foundation for other programs.

Projected Peak Demands

Figure 8 below shows the historic and projected total summer peak demand, as well as demand side management impacts and the resulting net firm demand experienced by the utilities. While summer peak demand has been relatively steady in the past few years, demand is anticipated to increase steadily throughout the planning period. Interruptible load and load management programs have not been fully implemented in past years, with the primary impact shown below in 2008. When planning for future load, the electric utilities use net firm seasonal demand.

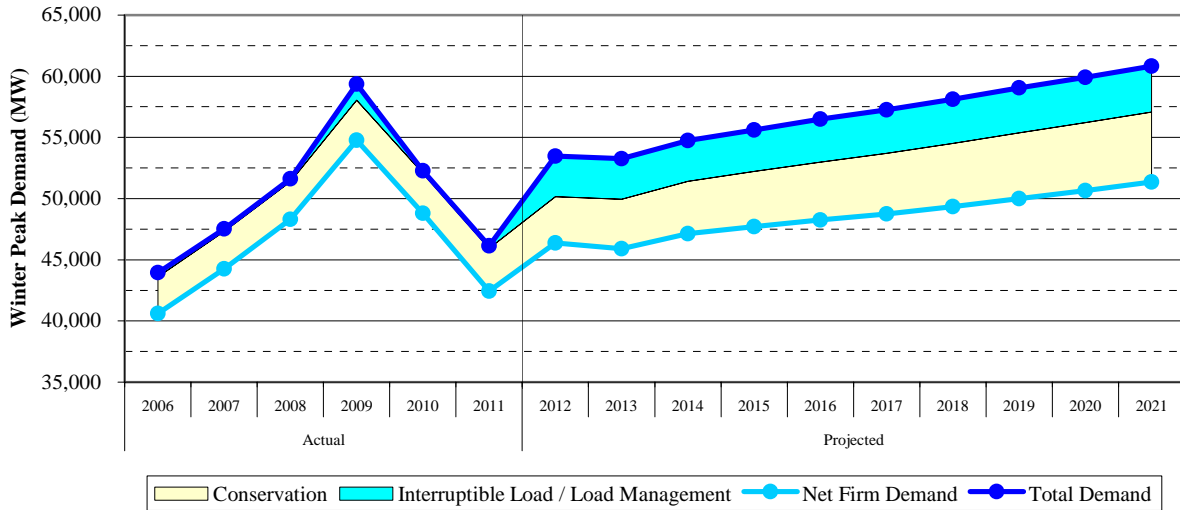
Figure 8. State of Florida: Historic & Projected Summer Peak Demand (With DSM Impacts)



Source: FRCC 2008 - 2012 Load and Resource Plans

Figure 9 below shows the historic and projected total winter peak demand, as well as DSM impacts and the resulting net firm demand experienced by the utilities. As with summer peak demand, demand response resources have not historically been fully utilized, as shown by the small reduction in the actual firm demand.

Figure 9. State of Florida: Historic & Projected Winter Peak Demand (With DSM Impacts)

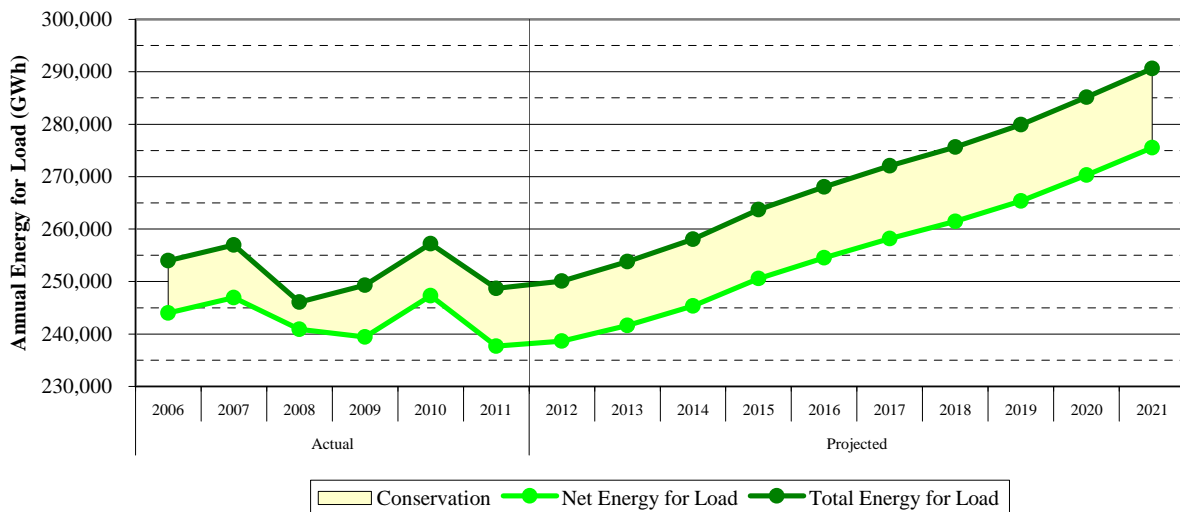


Source: FRCC 2008 - 2012 Load and Resource Plans

Annual Energy Consumption Forecasts

While peak demand is the instantaneous usage of a customer on the system, annual energy consumption addresses the total cumulative demand on the system over time, which determines the type of units required and the resulting amount of fuel consumed. Figure 10 below shows the historic and projected annual energy for load for the state of Florida. While energy consumption has been relatively steady for the past few years, it is anticipated to increase steadily through the end of the planning period.

Figure 10. State of Florida: Historic & Projected Annual Energy for Load (With DSM Impacts)



Source: FRCC 2008 - 2012 Load and Resource Plans

Historical Accuracy of Energy Forecasts

For each utility filing a TYSP, the Commission reviewed the historical forecast accuracy of total retail energy sales for the five-year period 2007 to 2011. The review compared actual energy sales for each year to energy sales forecasts made three, four, and five years prior. For example, the actual 2007 energy sales were compared to the projected 2007 forecasts made in 2002, 2003, and 2004. These differences, expressed as a percentage error rate, were used to calculate the utility's historical forecast accuracy.

Table 5 below illustrates the historical forecast error for 2012 and 2011, on an average error and average absolute error basis. The calculated average error is positive for all TYSP utilities, this shows a tendency to over-forecast, with the resulting average forecast error for all TYSP utilities combined at 11.38 percent in 2012, an increase from 8.45 percent in 2011.

Table 5. TYSP Utilities: Historical Accuracy of Net Energy for Load Forecasts

| TYSP Utility | Forecast Error (%) | | | |
|-------------------------|-----------------------------|------------------|-----------------------------|------------------|
| | 2012 (Years 2011 – 2007) | | 2011 (Years 2010 – 2006) | |
| | Average | Average Absolute | Average | Average Absolute |
| FPL | 12.12% | 12.12% | 10.92% | 10.97% |
| PEF | 11.36% | 11.90% | 6.17% | 7.05% |
| TECO | 13.07% | 13.07% | 8.95% | 8.95% |
| GULF | 5.44% | 7.37% | 1.97% | 5.62% |
| FMPA | 11.81% | 13.99% | 6.09% | 12.83% |
| GRU | 11.40% | 11.40% | 8.32% | 8.32% |
| JEA | 12.72% | 12.72% | 9.78% | 9.78% |
| LAK | 7.89% | 7.89% | 5.69% | 5.69% |
| OUC | 5.83% | 5.83% | 5.87% | 6.61% |
| SEC | 11.41% | 12.63% | 4.41% | 8.38% |
| TAL | 8.77% | 8.85% | 7.04% | 7.28% |
| Weighted Average | 11.38% | 11.38% | 8.45% | 8.63% |

Source: Staff Calculation based on Utilities 2001 – 2012 TYSPs

The high error rate, increased from last year's, represents the impact of the recession on energy usage in Florida. This analysis primarily uses forecasts developed from between 2002 and 2008, a majority of which occurred before the recession. Due to the unexpected nature of the recent recession, it could not have been included in forecasts as far as 5 years preceding the event. As this analysis moves forward and begins to use forecasts developed after the beginning of the recession, the error rate should fall back to typical levels.

As indicated by this high error rate, utilities projected increased need for energy that has not materialized due to the recession. As discussed below, Florida currently has an excess of generation, in part due to these projections. The TYSP utilities have responded to changing circumstances by delaying or cancelling new generation, as discussed in previous annual reviews of the TYSPs.

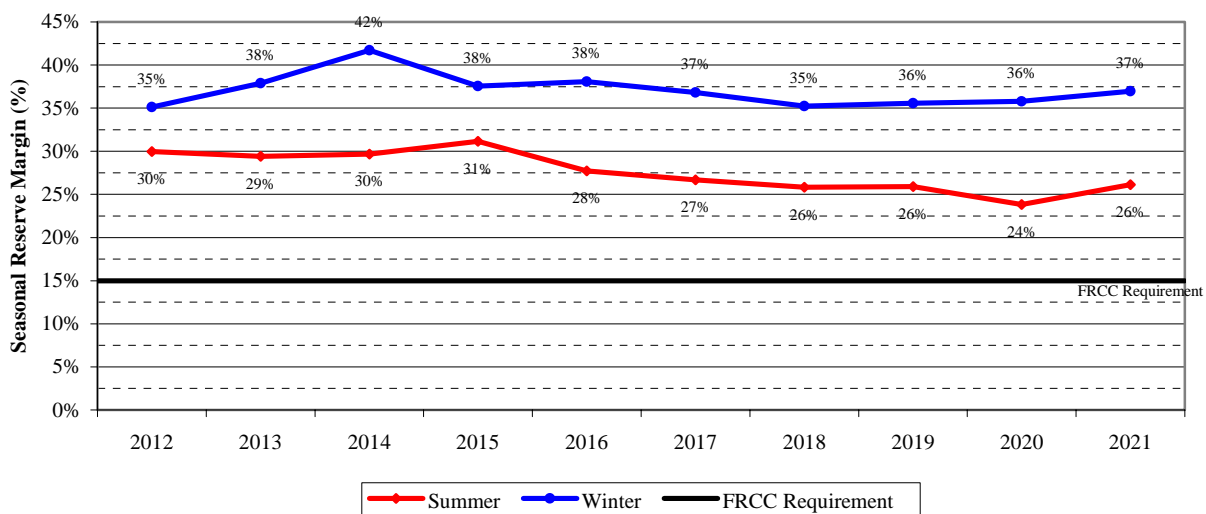
Reserve Margin Requirements

In order to maintain stability in the electric system, utilities must constantly adjust system output to match demand from moment to moment. As demand fluctuates, utilities must generate the precise amount of electrical power that will keep the system in balance while also performing periodic maintenance on its generating units. In addition, utilities must be prepared at any moment to meet unforeseen circumstances, such as extreme weather events or unit outages. Therefore, each utility must maintain a certain amount of “extra” or reserve capacity in the event that demand rises above or supply drops below forecasted levels. This additional amount of generating capacity is expressed as a percentage of firm demand and is referred to as the reserve margin.

Reserve margins in Florida typically remain well above the FRCC minimum of 15 percent for most of the year, and usually will only approach minimum levels in the summer peak season when air conditioning loads are at their highest levels. The higher margins during winter peak seasons are also due to the fact that generating units can operate at a higher capacity in colder temperatures. The three largest IOUs, FPL, PEF, and TECO, were party to a stipulation approved by the Commission setting a 20 percent reserve margin planning criterion.

The values in Figure 11 below include both supply-side and demand-side contributions, and shows that planning is mostly controlled by summer peak demand. It should be noted that the figure below is for the State of Florida, and therefore contains generating capacity outside of the FRCC region.

Figure 11. State of Florida: Seasonal Reserve Margin (With LM/INT)

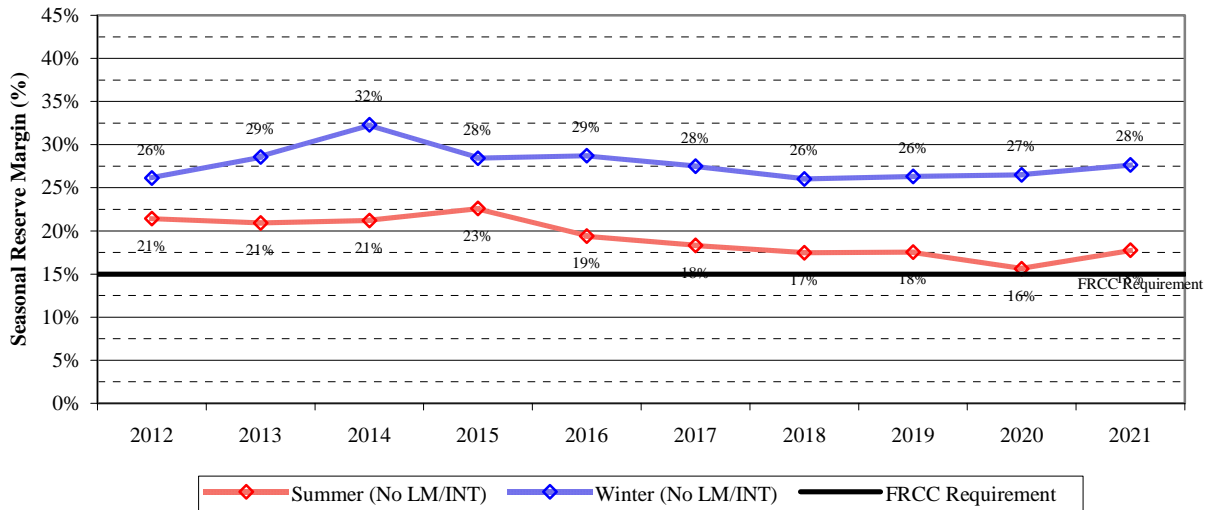


Source: FRCC 2012 Load and Resource Plan

It should be noted that the reserve margin figures above are calculated using the net firm system demand, which assumes full use of interruptible load and load management devices to reduce peak demand. Participation in interruptible rates and load management programs are

voluntary, for which incentives are provided in the form of lower rates or credits paid to the participant. As shown in Figure 12 below, the state as a whole has sufficient generation capacity planned throughout the period to meet the minimum reserve margin of 15 percent without relying on interruptible and load management customers.

Figure 12. State of Florida: Seasonal Reserve Margin (Without LM/INT)

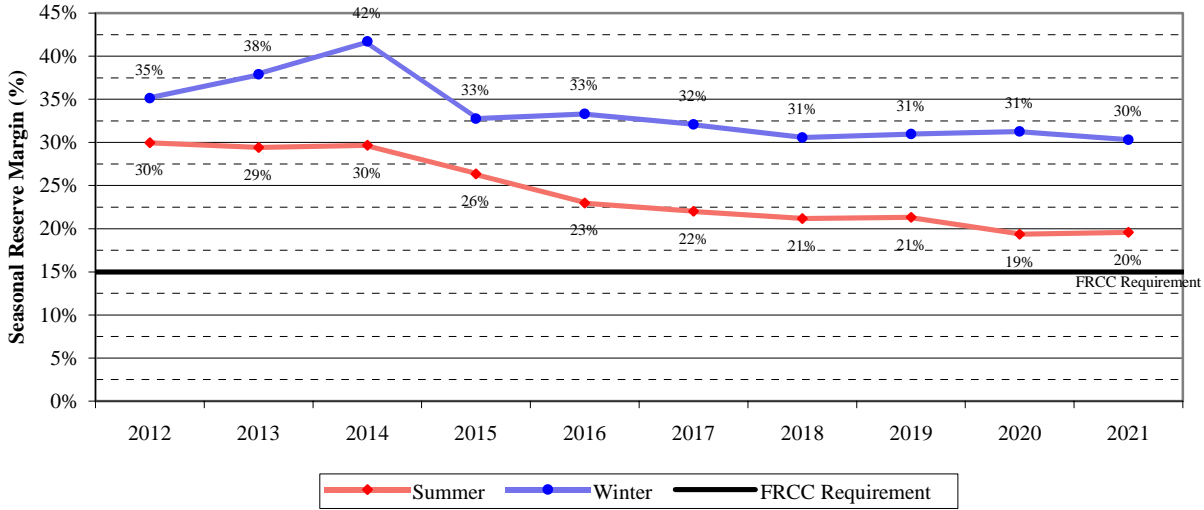


Source: FRCC 2012 Load and Resource Plan

The previous two figures have assumed that the expansion plans filed in the utilities TYSPs will continue as planned. Since the filing of the 2012 TYSPs, PEF has delayed the in-service date of the Levy 1 nuclear unit outside of the planning period. Staff is also aware of the long-term outage at PEF’s CR3 nuclear unit, which is currently offline and scheduled to return to service in November 2014 if repaired. Retirement remains an open option for this unit in the event it is determined to be uneconomic to repair, which would have an impact on the statewide reserve margin. In addition, several coal-fired plants were identified at the Commission’s Workshop on the 2012 Ten-Year Site Plans, which if retired would further decrease the state’s reserve margin.³ Figure 13 shows the total impact of the delay or potential retirement of all the units discussed above and that the state should still retain sufficient generating capacity. The potential impacts to PEF and GULF are discussed in the individual utility section of the report.

³ Specifically, PEF’s Crystal River 1 and 2 and GULF’s Lansing Smith 1 and 2.

Figure 13. State of Florida: Seasonal Reserve Margin After Potential Unit Retirements (With LM/INT)



Source: FRCC 2012 Load and Resource Plan, Staff Calculation

RENEWABLE GENERATION

Federal Legislation

In 1978, the U.S. Congress enacted the Public Utility Regulatory Policies Act (PURPA)⁴. PURPA endorsed three broad national purposes: (1) conservation of electric energy, (2) increased efficiency in the use of facilities and resources by electric utilities, and (3) equitable rates for electricity consumers. Section 210 of Title II, entitled “Cogeneration and Small Power Production,” required electric utilities to interconnect and sell electric energy to qualifying cogeneration and small power production facilities, referred to as Qualifying Facilities, or QFs, and to purchase electric energy from these facilities at the utility’s full avoided cost. The Federal Energy Regulatory Commission (FERC) subsequently adopted rules to implement PURPA. In addition, states were delegated authority to implement the FERC rules for electric utilities over which they have rate making authority.⁵ In 1980, the FERC issued its rules establishing the criteria for determining the qualifying status of a facility and setting out regulations for electric utility interconnection with QFs, along with sales to and purchases from QFs.⁶

State Legislation

In 1981, the Florida Legislature authorized the Commission to establish guidelines for the purchase and sale of capacity and energy from cogenerators and small power producers, which includes renewable generators. In 1989, the statutes were broadened with the enactment of Section 366.051, F.S., which provides, in part, the following:

Electricity produced by cogeneration and small power production is of benefit to the public when included as part of the total energy supply of the entire electric grid of the state or consumed by a cogenerator or small power producer. The electric utility in whose service area a cogenerator or small power producer is located shall purchase, in accordance with applicable law, all electricity offered for sale by such cogenerator or small power producer; or the cogenerator or small power producer may sell such electricity to any other electric utility in the state. The Commission shall establish guidelines relating to the purchase of power or energy by public utilities from cogenerators or small power producers and may set rates at which a public utility must purchase power or energy from a cogenerator or small power producer. In fixing rates for power purchased by public utilities from cogenerators or small power producers, the Commission shall authorize a rate equal to the purchasing utility’s full avoided costs. A utility’s “full avoided costs” are the incremental costs to the utility of the electric energy or capacity, or both, which, but for the purchase from cogenerators or small power producers, such utility would generate itself or purchase from another source.

⁴ Public Law 95-617 (HR 4018) November 9, 1978.

⁵ PURPA at Title II, section 210(f); In Florida, the Florida Public Service Commission has ratemaking jurisdiction over five investor-owned electric utilities: Florida Power & Light Company (FPL), Progress Energy Florida (PEF), Gulf Power Company (Gulf), Tampa Electric Company (TECO), and Florida Public Utilities Company (FPUC).

⁶ 18 C.F.R. 292.101 through 18 CFR 292.602.

In 2005, the Legislature enacted Section 366.91, F.S., which requires IOUs to continuously offer purchase contracts to producers of renewable energy, and adopts the avoided cost standard as defined in Section 366.051, F.S. Section 366.91, F.S., also defines the term “renewable energy” as follows:

“Renewable energy” means electrical energy produced from a method that uses one or more of the following fuels or energy sources: hydrogen produced from sources other than fossil fuels, biomass, solar energy, geothermal energy, wind energy, ocean energy, and hydroelectric power. The term includes the alternative energy resource, waste heat, from sulfuric acid manufacturing operations and electrical energy produced using pipeline-quality synthetic gas produced from waste petroleum coke with carbon capture and sequestration.

Commission Rules

Renewable facilities are permitted to enter into two types of contractual agreements for selling power: standard offer and negotiated contracts. Under these contracts, the energy can be sold as either “firm” or “as-available,” depending on the characteristics of the output of the facility. When the output is continuous, except for occasional shutdowns for maintenance and repair, the utility also makes payments for the dependable capacity. These contract and payment options are outlined in Rules 25-17.0825 and 25-17.0832, F.A.C.

Standard Offer Contracts

Standard offer contracts are pre-approved contracts for the purchase of firm capacity and energy from any renewable generating facility or small QF. Rule 25-17.230, F.A.C., requires each investor-owned electric utility to establish a standard offer contract for each fossil-fueled generating unit type identified in the utility’s TYSP. The renewable energy generator is allowed to select from a number of payment options that best fits its financing requirements as long as the total cumulative present value of such payments does not exceed full avoided cost, and adequate security for front-end loaded payments is provided. For example, the Commission rules allow for levelized payments over the life of the contract which may include both capacity and energy costs.

Negotiated Contracts

Renewable generating facilities are encouraged to negotiate purchased power contracts with IOUs pursuant to Rule 25-17.240, F.A.C. Payments made to a qualified renewable generator under a negotiated contract may be recovered from ratepayers by the purchasing utility as long as the cumulative present value of the payments does not exceed the utility’s full avoided cost and adequate security for front-end loaded payments is provided.

Renewable Payment Types

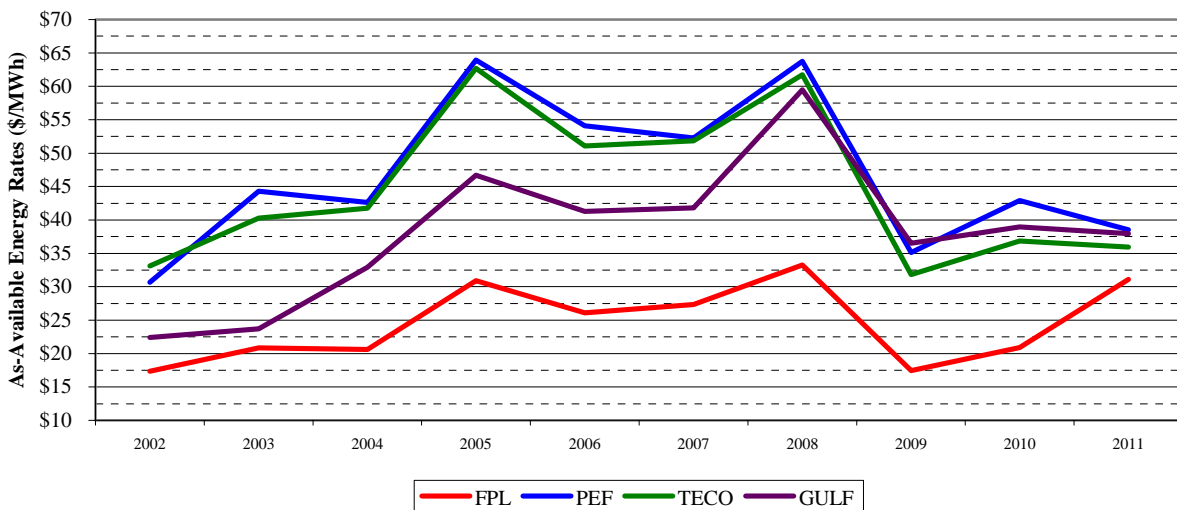
Pursuant to current state and federal law, payments made by utilities to generation facilities using renewable energy sources are capped at the utility’s avoided cost for capacity and energy.

Firm capacity payments: Firm capacity is capacity (MW) produced and sold by a renewable energy generator pursuant to a standard offer contract or a negotiated contract subject to contractual commitments as to the quantity, time, and reliability of delivery. Firm capacity is purchased at a rate specified in a contract which is equal to the utility’s avoided capacity cost or at a negotiated rate which may not exceed the utility’s avoided capacity cost. Full avoided cost is calculated by determining the cumulative present value of a year-by-year value of deferring each avoided unit over the term of the contract.

Firm energy payments: Firm energy is energy (kWh) produced and sold by a renewable energy generator pursuant to a negotiated contract or a standard offer contract subject to contractual commitments as to the quantity, time, and reliability of delivery. Generally, the rate of payment for firm energy, in cents per kWh, is the lesser of the fuel cost associated with the avoided unit or the utility system’s incremental fuel cost.

As-available energy payments: As-available energy is energy (kWh) produced and sold by a renewable energy generator on an hour-by-hour basis for which contractual commitments as to the quantity, time, or reliability of delivery are not required. As-available energy is purchased at a rate in cents per kilowatt hour (kWh) equal to the utility’s hourly incremental system fuel cost, which reflects the highest fuel cost of generation dispatched each hour. No capacity payments are made for as-available energy because no reliability benefits are received. Figure 14 below illustrates historic as-available energy payments from the investor-owned TYSP utilities for the period 2002 through 2011. When natural gas prices spiked in 2008, averaging \$10/MMBtu, as-available energy rates rose as well. As natural gas prices have declined since 2008, as-available energy rates have also decreased.

Figure 14. Investor Owned Utilities: Average Annual As-Available Energy Rates



Source: Responses to Staff Data Requests

Renewable Resource Outlook

In 2003, the Commission, in consultation with the DEP, completed the 2003 Renewable Energy Assessment Report to identify renewable energy viability in Florida. According to the report, the most feasible sources of renewable energy in Florida are from biomass materials, such as agricultural waste products or wood residues, and industrial waste heat. The 2003 report also stressed that technical feasibility does not ensure economic cost-effectiveness when determining energy resource production.

The Commission, in conjunction with the U.S. Department of Energy and the Lawrence Berkeley National Laboratory, retained Navigant Consulting, Inc. to prepare a detailed assessment of Florida's renewable potential. The 2008 Navigant Consulting Renewable Energy Potential Assessment (the 2008 Navigant Consulting Report) reported on the existing renewable conditions and the projected potential for renewable development in Florida through 2020, compared cost-effective differences, and considered the potential levels of economic impact future renewables may have. The 2008 Navigant Consulting Report substantiated the Commission's 2003 assessment by observing that the majority of Florida's existing renewables consist of solid biomass plants and municipal solid waste facilities. Although the 2008 Navigant Consulting Report considered solar technologies to have the largest technical potential of any renewable resource in Florida, only a portion of this potential can actually be economically achieved at this time.

The 2008 Navigant Consulting Report described the comparison of the technical or physical potential versus the achievable potential for renewable energy development in Florida. For example, although the technical potential for solar power in Florida may be relatively high according to Navigant Consulting, cost-effectiveness and siting issues significantly reduce the achievable potential to commercially develop solar energy technology. The driving forces to the expansion and sustainability of the renewable market depend on the overall value of renewable energy, a basis that is determined by the financial environment as well as government regulation and support. As noted in the 2008 Navigant Consulting Report, a favorable scenario for the renewable market which has meaningful growth in Florida assumed the following:

1. High fossil fuel costs
2. Access to low cost capital and debt rates
3. Continual government rebate programs and tax incentives
4. Established pricing of CO₂ emissions
5. Formation of a Renewable Energy Certificate (REC) market

Since the 2008 Navigant Consulting Report was completed, economic and policy conditions have not been favorable for future renewable development. Specifically, Navigant Consulting assumed in their 2008 natural gas costs to be \$11-\$14/MMBtu in the favorable scenario. Natural gas is currently trading at approximately \$2.95/MMBtu. Most forecasts project natural gas prices to gradually increase over the long term.

In the favorable scenario, Navigant assumed the estimated cost of debt to be approximately 6.5 percent, the cost of equity approximately 10 percent, and ready access to debt would make up 70 percent of renewable project financing. Currently credit markets are still tight for small businesses, and obtaining financing for renewable energy projects will be much more difficult for a smaller company than for a large utility.

In the favorable scenario, Navigant Consulting estimated that Florida’s solar rebate program would expire in 2020, with a \$10 million annual funding level. The Florida Energy and Climate Commission was authorized to provide \$25.4 million in rebates for solar energy equipment between 2006 and 2009. Currently the authorized budget has been depleted. Also, the favorable scenario for carbon pricing assumes \$2/ton initially, then scaling to \$50/ton by 2020. Currently, there is no federal or state policy establishing carbon pricing. The favorable scenario also envisioned the creation of a Renewable Energy Credit (REC) market, with REC prices of approximately \$18/MWh initially, decreasing to \$11/MWh by 2020. At this time, no Renewable Energy Credit market has been established in Florida.

Table 6 below compares selected assumptions included in Navigant’s favorable scenario and current market conditions. As detailed in the table, most current market conditions are not aligned with Navigant’s favorable scenario for renewable generation development.

Table 6. State of Florida: Market Outlook for Renewable Energy

| Market Area | 2008 Navigant Consulting Report Favorable Scenario | Current Market Conditions |
|---|---|----------------------------------|
| Natural Gas Prices (\$/MMBTU) | \$11 - \$14 | \$3 - \$4 |
| Access to Capital & Debt | Available at Low Cost | Credit Markets Tight |
| Florida Solar Rebate Program | Expires in 2020, \$10M/year | No Funds Allocated |
| CO2 Emissions Pricing (\$/ton) | \$2 (2009) to \$50 (2020) | No pricing established |
| Renewable Energy Certificates (\$/MWh) | \$18 (2009) to \$11 (2020) | No REC Market established |

Source: 2008 Navigant Consulting Report, Responses to Staff Data Requests

Existing Renewable Resources

Currently, renewable energy facilities provide approximately 1,400 MW of gross electric generation capacity as reported by the FRCC. Compared to figures in the 2011 Ten-Year Site Plan Review, existing renewable generation facilities have increased by approximately 120 MW, or 9 percent. Table 7 summarizes Florida’s existing renewable resources.

Table 7. State of Florida: Existing Renewable Generation Capacity

| Renewable Type | Capacity (MW) |
|------------------------------|----------------------|
| Solar | 143.3 |
| Wind | 0.0 |
| Biomass | 401.5 |
| Municipal Solid Waste | 453.7 |
| Waste Heat | 297.1 |
| Landfill Gas | 58.4 |
| Hydro | 55.7 |
| Total | 1,400 |

Sources: FRCC 2012 Load and Resource Plan, Responses to Staff Data Requests

Firm Capacity Contracts

Roughly 28 percent of all renewable capacity in Florida is from renewable generators with firm capacity contracts, which are required to provide a particular amount of capacity for a specified period of time pursuant to contractual obligations. Approximately 78 percent of this renewable capacity consists of municipal solid waste (MSW) facilities. Although the majority of firm capacity is purchased by investor-owned utilities, a significant portion (137.8 MW) is purchased by Seminole Electric Company (SEC).

Table 8 lists the existing renewable generators that provide firm capacity. Significant changes in the firm contracts since 2011 include rerates from FPL's Palm Beach County Facility, SEC's Lee County Resource Recovery Facility, and a new contract agreement for firm energy between McKay Bay Waste to Energy Facility with SEC.

Table 8. State of Florida: Firm Renewable Resources

| Purchasing Utility | Facility Name | Fuel Type | Gross Capacity* (MW) | Commercial In-Service Date |
|---------------------------------|-------------------------------------|-----------|----------------------|----------------------------|
| Investor-Owned Utilities | | | | |
| FPL | (Wheelabrator) Broward-South | MSW | 68 | 1987 |
| FPL | (Wheelabrator) Broward-North | MSW | 62 | 1992 |
| FPL | Solid Waste Authority of Palm Beach | MSW | 40 | 2005 |
| PEF | Pinellas County Resource Recovery | MSW | 61.7 | 1983 |
| PEF | Lake County Resource Recovery | MSW | 14.8 | 1990 |
| PEF | Dade County Resource Recovery | MSW | 43 | 1991 |
| PEF | Pasco County Resource Recovery | MSW | 26 | 1991 |
| PEF | Ridge Generating Station | WDS | 39.6 | 1994 |
| Subtotal of IOUs | | | 227.7 | |
| Municipal Utilities | | | | |
| GRU | G2 Energy | LFG | 4 | 2008 |
| GRU | Solar FIT Program/Net Meter | SUN | 26.8 | 2009 |
| JEA | Trailridge | LFG | 9 | 2008 |
| Subtotal of Municipals | | | 22.3 | |
| Cooperative Utilities | | | | |
| SEC | Lee County Resource Recovery | MSW | 50 | 1999 |
| SEC | Telogia Power, LLC | WDS | 13 | 2004 |
| SEC | Seminole Landfill | LFG | 6.2 | 2007 |
| SEC | Brevard Energy | LFG | 9 | 2008 |
| SEC | Timberline Energy | LFG | 1.6 | 2008 |
| SEC | Hillsborough Waste to Energy | MSW | 42.6 | 2010 |
| SEC | McKay Bay Waste to Energy | MSW | 22 | 2011 |
| Subtotal of Cooperatives | | | 137.8 | |
| Total | | | 387.8 | |

*The capacity listed here represents the gross capacity of the unit, which may be in excess of the contracted firm capacity of the generating unit.

Sources: FRCC 2012 Load and Resource Plan, Responses to Staff Data Requests

Non-Firm Renewable Energy Generators

In addition to the 387.8 MW of firm capacity described in Table 8 above, renewable energy facilities with a total capacity of 680.7 MW produce energy for sale to utilities on an as-available basis. Energy purchased on an as-available basis is considered non-firm capacity, and therefore cannot be counted on by Florida’s utilities for reliability purposes. The energy produced by these providers, however, does contribute to the avoidance of burning fossil fuels in existing generators. Table 9 details the various non-firm energy contracts.

Table 9. State of Florida: Non-Firm Renewable Resources

| Purchasing Utility | Facility Name | Fuel Type | Gross Capacity (MW) | Commercial In-Service Date |
|---------------------------------|---------------------------------|------------------|----------------------------|-----------------------------------|
| Investor-Owned Utilities | | | | |
| FPL | New Hope / Okeelanta | AB | 130 | 1991 |
| FPL | Georgia Pacific | WDS | 56.8 | 1995 |
| FPL | Tomoka Farms | LFG | 3.8 | 1998 |
| FPL | MMA FLA LP | SUN | 0.3 | 2007 |
| FPL | WM Renewable Energy | LFG | 8 | 2010 |
| PEF | Potash Of Saskatchewan | WH | 44.2 | 1986 |
| PEF | Buckeye | WDS | 52.3 | 1993 |
| PEF | G2 | LFG | 3.5 | 2008 |
| TECO | Mosaic: South Pierce | WH | 30 | 1969 |
| TECO | Mosaic: New Wales | WH | 79 | 1984 |
| TECO | CF Industries | WH | 34.9 | 1988 |
| TECO | City Of Tampa Sewage | OBG | 1.5 | 1989 |
| TECO | Mosaic: Ridgewood | WH | 62 | 1992 |
| TECO | Mosaic: Millpoint | WH | 47 | 1995 |
| GULF | Stone Container | AB | 25 | 1960 |
| GULF | International Paper Company | WDS | 56 | 1983 |
| GULF | Bay County Solid Waste | MSW | 13.6 | 2008 |
| Subtotal of IOUs | | | 647.9 | |
| Municipal Utilities | | | | |
| FMPA | US Sugar Corporation | AB | 26.5 | 1984 |
| LAK | Lakeland Center (Solar) | SUN | 0.3 | 2010 |
| OUC | Regenesis Stanton Energy Center | SUN | 6 | 2011 |
| Subtotal of Municipals | | | 32.8 | |
| Total | | | 680.7 | |

Sources: FRCC 2012 Load and Resource Plan, Responses to Staff Data Requests

Utility-Owned Renewable Facilities

Several utilities also own renewable facilities, primarily solar generation, landfill gas, and hydroelectric technologies. Table 10 lists some of the larger utility-owned resources, which consist mostly of non-firm or intermittent resources.

Table 10. State of Florida: Utility Owned Renewable Generation

| Purchasing Utility | Facility Name | Fuel Type | Gross Capacity (MW) | Commercial In-Service Date |
|---------------------------------|--------------------------------|-----------|---------------------|----------------------------|
| Investor-Owned Utilities | | | | |
| FPL | DeSoto | SUN | 25 | 2009 |
| FPL | Martin | SUN | 75 | 2010 |
| FPL | Space Coast Next Generation | SUN | 10 | 2010 |
| GULF | Perdido 1 | LFG | 1.8 | 2010 |
| GULF | Perdido 2 | LFG | 1.8 | 2010 |
| Subtotal of IOUs | | | 113.6 | |
| Municipal Utilities | | | | |
| JEA | North Landfill | LFG | 1.5 | 1997 |
| JEA | Girvin Landfill | LFG | 1.2 | 1999 |
| JEA | Buckman | OBG | 0.8 | 2003 |
| OUC | Co-Fired Stanton Energy Center | LFG | 7 | 1998 |
| TAL | Corn Hydro | WAT | 12.2 | 1985 |
| Subtotal of Municipals | | | 22.7 | |
| Other Utilities | | | | |
| UCEM | Jim Woodruff | WAT | 43.5 | 1957 |
| Subtotal of Other | | | 43.5 | |
| Total | | | 179.8 | |

Sources: FRCC 2012 Load and Resource Plan, Responses to Staff Data Requests

Because most of the energy produced is non-firm, the majority of these renewable facilities serve more to reduce fossil fuel consumption than to provide system capacity. Among some of the recent notable additions to utility-owned renewables are the construction and operation of three solar generators by FPL in 2009 and 2010. The DeSoto, Martin, and Space Coast facilities are currently the largest solar facilities in Florida.⁷ Also in 2010, GULF commissioned two landfill gas generation facilities, Perdido 1 and 2, to provide that utility with a total renewable gross capacity of 3.6 MW.

Existing Net Metering

Net metering is an arrangement between a utility and a customer with renewable generation capability whereby the customer's energy usage is offset, or credited, by the amount of energy generated. The customer will be billed for any net energy consumed that exceeds the energy generated.

In April 2008, the Commission amended Rule 25-6.065, F.A.C., on interconnection and net metering for customer-owned renewable generation. The rule requires the IOUs to offer net metering for all types of renewable generation up to 2 MW in capacity and a standard interconnection agreement with an expedited interconnection process. Customers benefit from

⁷ The DeSoto and Space Coast facilities are direct energy-producing photovoltaic facilities, whereas the Martin facility uses thermal heat to create replacement steam for a pre-existing steam turbine usually supplied through fossil fuel generation.

such renewable systems by reducing their energy purchases from the utility and potentially selling excess energy to the utility.

The Commission’s rule requires all electric utilities to annually report data associated with interconnection and net metering programs. Data submitted in April 2010 show that the number of customers owning renewable generation systems in Florida continues to grow. Statewide, a total of 29.3 MW of solar photovoltaic (PV) capacity from 3,994 systems have been installed, up from 2.8 MW produced by 537 systems in 2008. Table 11 displays the information on customer-owned renewable generation for 2011 reported by Florida’s utilities.

Table 11. State of Florida: Customer Owned Renewable Generation

| Utility Type | Connections | Non-Firm Capacity (MW) |
|-----------------------------|--------------|------------------------|
| Investor-Owned | 2,826 | 20.4 |
| Municipal | 615 | 5.0 |
| Rural Electric Cooperatives | 553 | 3.9 |
| Total | 3,994 | 29.3 |

Sources: 2012 Interconnection and Net Metering of Customer-Owned Generation Report

Planned Renewables Additions

Florida’s utilities plan to construct or purchase an additional 957 MW of renewable generation over the ten-year planning period. The expected major contributors to actual energy generation are planned biomass resources. Table 12 summarizes the overall proposed planned increases by generation type of all utilities. The largest source of planned renewable generation comes in the form of non-firm solar capacity built by a single vendor, National Solar. The company has as-available energy contracts with PEF, and as they have no capacity portion, are not considered for reliability purposes.

Table 12. State of Florida: Planned Renewable Resource Net Additions

| Fuel Type | Capacity (MW) |
|-----------------------|---------------|
| Solar | 553.4 |
| Wind | 0 |
| Biomass | 321 |
| Municipal Solid Waste | 70 |
| Waste Heat | 0 |
| Landfill Gas | 13 |
| Hydro | 0 |
| Total | 957.4 |

Sources: FRCC 2012 Load and Resource Plan, Responses to Staff Data Requests

As of January 2012, firm capacity contracts represent 39 percent of total planned renewable additions. Table 13 and Table 14, provide detailed lists of the renewable resources planned for construction in Florida over the ten-year planning horizon. Table 13 shows that, of the renewable firm capacity planned over the ten-year horizon, the majority is woody biomass that will be purchased by PEF and GRU.

Table 13. State of Florida: Planned Firm Renewable Resources

| Purchasing Utility | Facility Name | Fuel Type | Gross Capacity* (MW) | Commercial In-Service Date |
|---------------------------------|-------------------------------------|------------------|-----------------------------|-----------------------------------|
| Investor-Owned Utilities | | | | |
| PEF | FB Energy | AB | 60 | 2013 |
| PEF | Trans World Energy | WDS | 40 | 2013 |
| PEF | US EcoGen | WDS | 60 | 2014 |
| FPL | Solid Waste Authority of Palm Beach | MSW | 70 | 2016 |
| | Subtotal of IOUs | | 230 | |
| Municipal Utilities | | | | |
| JEA | Trailridge | LFG | 9 | 2012 |
| OUC | Port Charlotte | LFG | 4 | 2012 |
| OUC | Harmony | WDS | 5 | 2012 |
| GRU | American Renewables LLC | WDS | 116 | 2013 |
| GRU | Solar FIT Program | SUN | 9.3 | 2021 |
| | Subtotal of Municipals | | 143.3 | |
| | Total | | 373.3 | |

Sources: FRCC 2012 Load and Resource Plan, Responses to Staff Data Requests

Table 14 shows that most of the non-firm capacity planned in Florida will be purchased by PEF, primarily from National Solar, discussed above.

Table 14. State of Florida: Planned Non-Firm Renewable Resources

| Purchasing Utility | Facility Name | Fuel Type | Capacity (MW) | Commercial In-Service Date |
|---------------------------------|---------------------------------|-----------|---------------|----------------------------|
| Investor-Owned Utilities | | | | |
| FPL | INEOS Bio | AB | 2 | 2011 |
| PEF | Eliho | WDS | 8 | 2011 |
| PEF | E2E2 | WDS | 30 | 2012 |
| PEF | Blue Chip Energy #1 | SUN | 50 | 2013 |
| PEF | National Solar #5-10 | SUN | 450 | 2021 |
| All IOUs | Solar Installations (Aggregate) | SUN | 0.1 | 2021 |
| Subtotal of IOUs | | | 540.1 | |
| Municipal Utilities | | | | |
| OUC | CNL/City Hall | SUN | 0.4 | 2012 |
| OUC | GSLD Solar | SUN | 0.8 | 2012 |
| TAL | SDA | SUN | 2 | 2012 |
| TAL | SolarSink | SUN | 0.5 | 2012 |
| TAL | SunnyLand Solar | SUN | 1 | 2012 |
| LAK | Regenesis Power | SUN | 15 | 2016 |
| LAK | SunEdision | SUN | 24 | 2017 |
| All Munis | Solar Installations (Aggregate) | SUN | 0.2 | 2021 |
| Subtotal of Municipals | | | 43.9 | |
| Total | | | 584 | |

Sources: FRCC 2012 Load and Resource Plan, Responses to Staff Data Requests

Updated Navigant Consulting Report

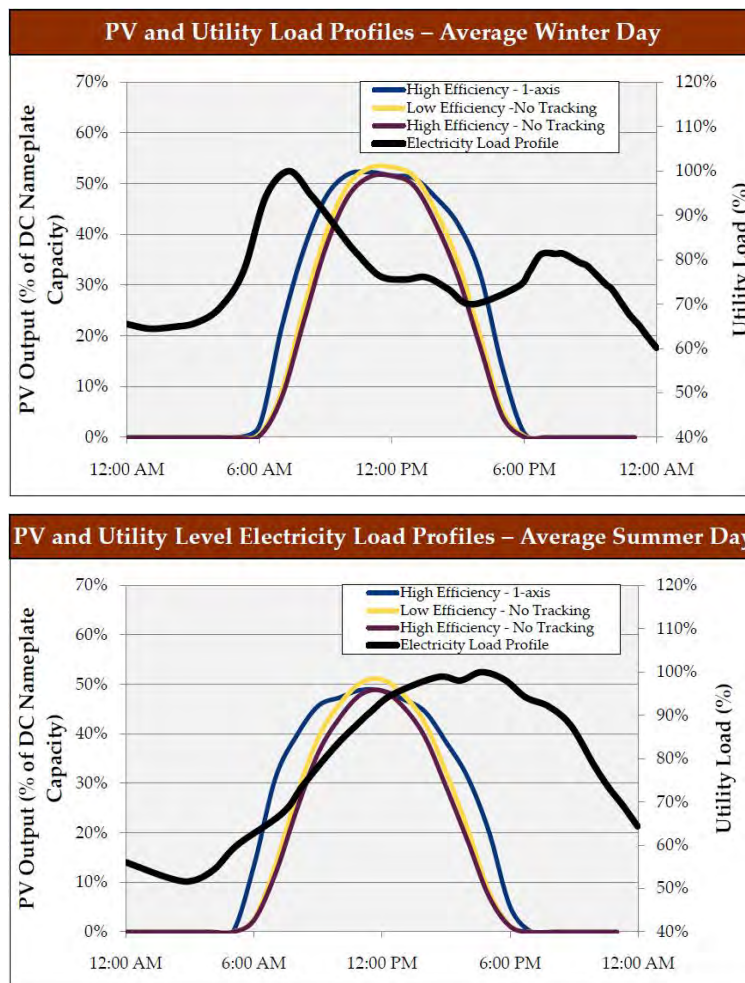
The Commission contracted with Navigant Consulting in early 2010 to update its 2008 analysis with current conditions. In June 2010, Navigant Consulting released new comparisons of cost estimates for different renewable generating facilities. Navigant Consulting also provided additional detail pertaining to Florida’s renewable resource which it identified as having the most technical potential for growth, solar PV facilities. Findings from the report are summarized below.

In the 2010 Navigant Consulting Report Update, the most meaningful findings include changes in prices of renewable technologies. PV module prices have fallen and commodity costs for PV units have decreased during the recession, but both are returning to near their pre-recession levels. Wind power prices have also decreased due to the recession, while utility turbine prices have risen as worldwide demand catches up with supply. According to the 2010 Navigant Consulting Report Update, no large performance breakthroughs occurred for any technology. Because Navigant Consulting found solar resources to hold the most potential in Florida, the remainder of the 2010 Navigant Consulting Report Update focuses on solar power.

The 2010 Navigant Consulting Report Update estimates that solar power systems have increased in efficiency while overall prices have decreased up to 40 percent since 2008. In spite of these changes, solar power systems continue to have some of the highest capital costs per kW of any renewable generating system. Varying the methods of using solar energy involving solar tracking technology and alternating solar film receptors produces a slight range of energy output and net capacity factors. In addition, the ability of solar PV systems to provide energy are limited to daytime hours. Supplemental battery storage units may alleviate this issue, but the costs of batteries are not included in Navigant Consulting’s estimates.

Even with these advancements, capacity factors of solar panels are projected to remain below 25 percent. Such results indicate that solar PV facilities operate more like a conventional peaking unit and will not replace the need for base-load generating facilities. However, Navigant Consulting also reported that operating characteristics for these systems do not correlate with daily peak load hours. As shown in Figure 15, Navigant Consulting estimates that the peak output from solar PV facilities reaches a maximum of approximately 50 percent of the rated capacity, and occurs after the system’s winter peak hour and before the system’s summer peak hour. As a result, a solar PV facility’s ability to provide reliability benefits appears limited.

Figure 15. Solar PV Output and Utility Seasonal Load Profiles



Sources: 2010 Navigant Consulting Report Update

TRADITIONAL GENERATION

Current demand and energy forecasts continue to indicate that in spite of increased levels of conservation, energy efficiency, and renewable generation, the need for traditional generating capacity still exists. While reductions in demand have been significant, the total demand for electricity and the per-capita consumption is expected to increase, making the addition of traditional generating units necessary to satisfy reliability requirements and provide sufficient electric energy to Florida's consumers. Because any capacity addition has certain economic impacts based on the capital required for the project, and due to increasing environmental concerns relating to solid fuel-fired generating units, Florida's utilities must carefully weigh the factors involved in selecting a supply-side resource for future traditional generation projects.

In addition to traditional economic analyses, utilities also consider several strategic factors, such as fuel availability, generation mix, and environmental compliance prior to selecting a new supply-side resource. Limited supplies, access to water or rail delivery points, pipeline capacity, water supply and consumption, land area limitations, cost of environmental controls, and fluctuating fuel costs are all important considerations.

Gas fired units have almost exclusively been selected in recent years due to higher thermal efficiencies, lower capital costs, short periods for permitting and construction, and sometimes the smaller land areas required. With the recent decrease in fuel prices due to unconventional natural gas production using hydraulic fracturing, natural gas is the favored fuel for all traditional generating units with the exception of new nuclear units.

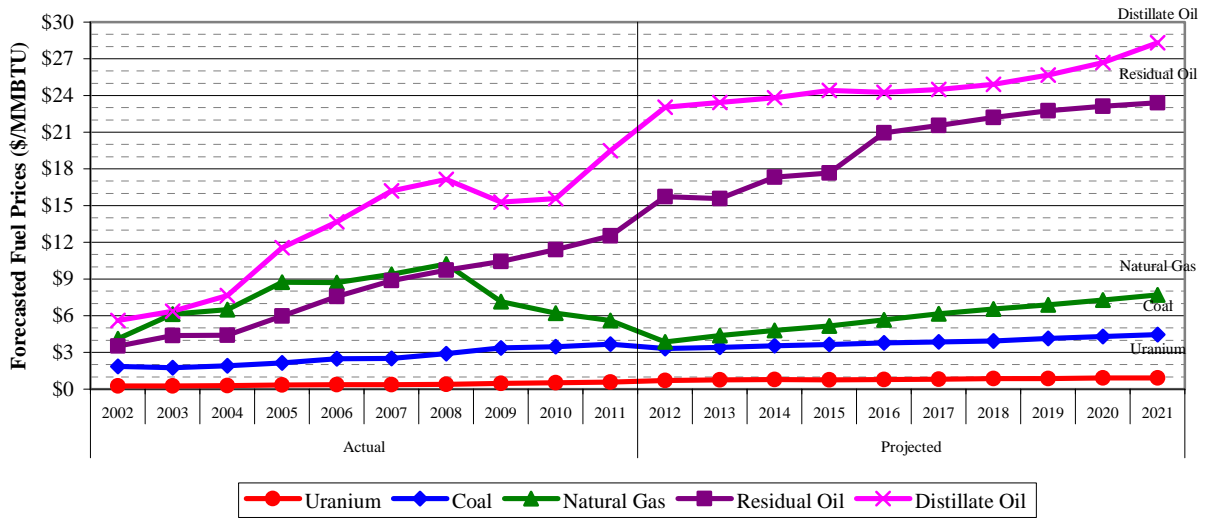
In the last ten years, almost 97 percent of all capacity additions to Florida's electric system use natural gas as the primary fuel. Coal units that were planned have been cancelled, and new nuclear units that have been approved have been delayed beyond the planning horizon. Currently, other than approximately 950 MW of renewable generation and 600 MW in uprates for existing nuclear units, all of the additional generation planned for the next ten years will use natural gas as a fuel source.

Fuel Price Forecasts

Fuel price forecast is the primary factor affecting the type of generating unit added by an electric utility. In general, the capital cost of a generating unit is inversely proportional to the cost of the fuel used to generate electricity from that unit. Historically, when the forecasted price difference between coal or nuclear and natural gas was small, the addition of a natural gas unit became the more attractive option. As the fuel price gap widened, a coal-fired or nuclear unit would normally be the more likely choice.

From 2003 to 2005, the price of natural gas was substantially higher than utilities had forecasted. This disparity led to concern regarding escalating customer bills and an expectation that natural gas prices would continue to be high and extremely volatile. As a result, Florida's utilities began making plans to build coal-fired units rather than continuing to increase the reliance on natural gas. However, as Figure 16 shows, the price of natural gas began to return to more historic levels after peaking in 2008, and has declined in the years since. Forecasts predict that gas prices will increase at a steady level throughout the planning horizon.

Figure 16. TYSP Utilities: Historic & Projected Weighted Average Fuel Prices (\$/MMBtu)



Source: Responses to Staff Data Request

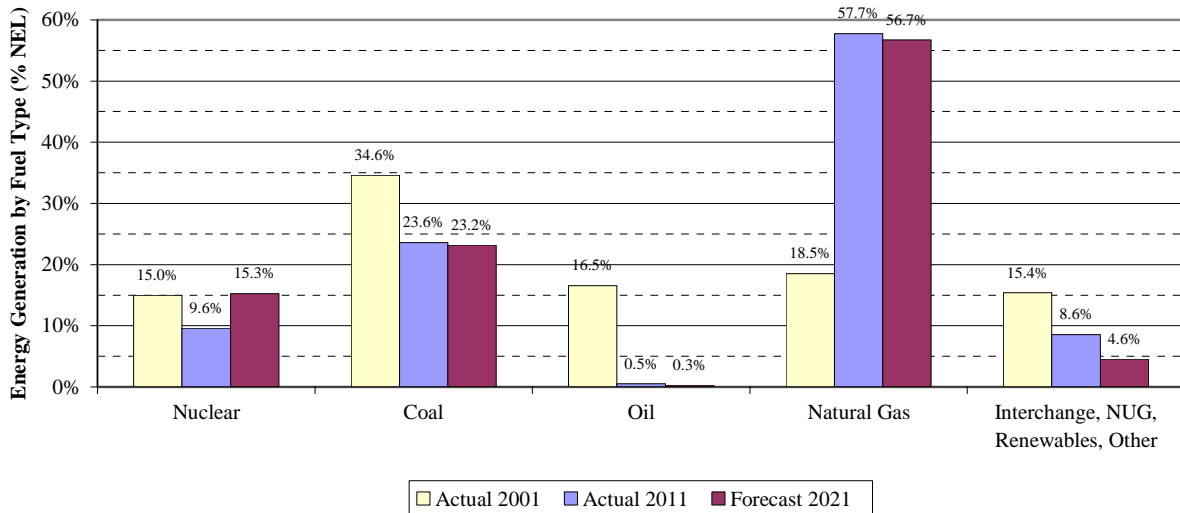
Previous TYSP reviews indicated that increases in gas prices may bring an end to the almost exclusive addition of natural gas-fired generation. As can be seen from Figure 16, the expectation of high prices for natural gas has not materialized and although it is forecasted to increase steadily, the rate of increase is more moderate than was previously contemplated.

Utility plans for a balanced fuel system have historically been highly dependent upon the accuracy of long-term fuel price forecasts, mostly due to the long lead times required for coal and especially nuclear generators. However, in recent years the options available to utilities for the addition of supply-side generation have been limited, and this situation seems unlikely to change at this time. Utilities will be faced with selecting technologies for new generation that will either continue to increase the already very high percentage of natural gas resources, or attempting to obtain approval for solid fuel resources that may have a negative near term rate impact.

Fuel Diversity

Natural gas has risen to become one of the dominant fuels in the state in the last ten years, displacing coal, and in 2011 generated more net energy for load than any two fuels combined in Florida. As Figure 17 shows, natural gas now makes up greater than 57.7 percent of electric energy consumed in Florida. Natural gas usage is anticipated to peak in 2012 at 62.4 percent, and then decline slightly to 56.7 percent by 2021.

Figure 17. State of Florida: Net Energy for Load by Fuel Type



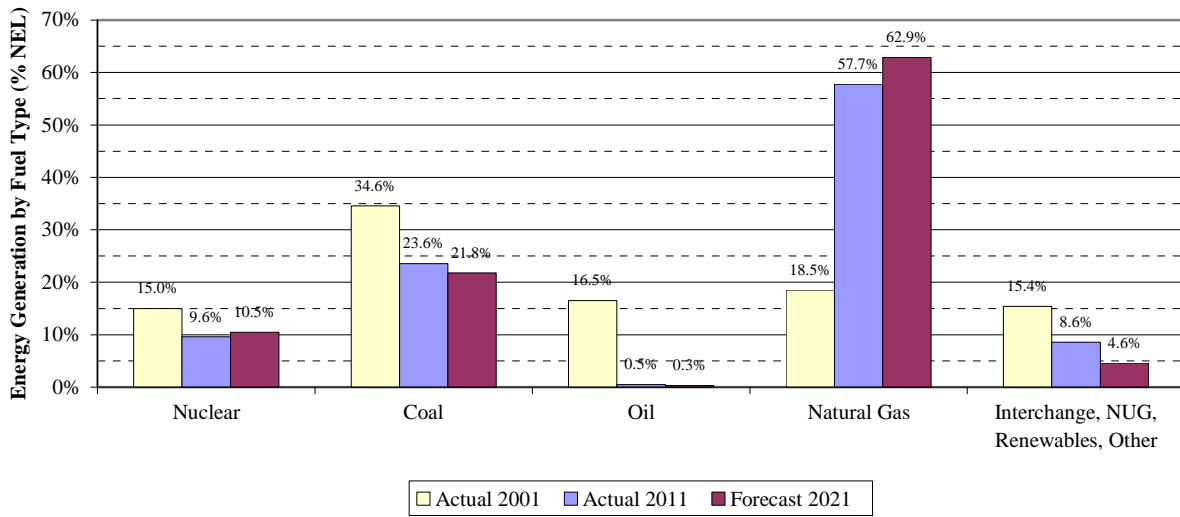
Source: FRCC 2002 and 2012 Load and Resource Plans

The anticipated decline in natural gas consumption by the end of the planning period is the result of increased nuclear generation and relatively stable contribution to NEL from coal-fired generation. Nuclear generation may decline from that projected in the FRCC 2012 Load and Resource Plan, primarily due to the delay of the Levy 1 nuclear unit, discussed below, and if the CR3 nuclear unit is retired instead of repaired. CR3 has been offline since 2009, following a delamination incident during a steam generator replacement project.

Coal generation, beyond the reduction in dispatch due to the cost-competitiveness of natural gas as a baseload fuel, faces challenges relating to new environmental compliance requirements. As discussed below, new EPA regulations will potentially require installation of new environmental controls, which could lead to the retirement of units if it is deemed uneconomic to upgrade its emission control equipment. During the 2012 TYSP Workshop, four coal units, PEF's Crystal River 1 & 2, and GULF's Lansing Smith 1 & 2, were identified by the Sierra Club/Earthjustice as potential units to consider retirement, though at this time all four are scheduled to remain in-service throughout the planning period.

If the projected generation associated with the nuclear and coal units discussed above is displaced by natural gas, it would have the net effect of increasing natural gas' share of state electric generation to 62.9 percent by 2021, as shown in Figure 18 below.

Figure 18. State of Florida: Net Energy for Load by Fuel Type After Generation Displacement



Source: FRCC 2002 and 2012 Load and Resource Plans, Utilities 2012 TYSPs, Responses to Staff Data Requests.

Because a balanced fuel supply can enhance system reliability and mitigate the effects of volatile fuel price fluctuations, it is important that utilities have the greatest possible level of flexibility in their generation fuel source mix. Although the Commission has cited the growing lack of fuel diversity within the State of Florida as a major strategic concern for the past several years, natural gas is anticipated to remain the dominant fuel over the planning horizon. Excluding renewables, all new generation facilities planned within the State of Florida over the ten-year period are natural gas-fired units.

Opportunities for Unit Modernization

Florida’s generating fleet consists of incremental new additions to the historic base fleet, with units retiring as they become uneconomical to operate or maintain. Currently Florida’s existing capacity ranges greatly in age and fuel type, and legacy investments continue.

While some units must be retired upon reaching the end of their economic life and cannot be refurbished, others have the potential for modernization. The modernization of existing generating units allows for significant improvement in both performance and emissions, typically at a price lower than new construction. Modernization typically involves the conversion of a generating unit from less efficient fossil steam generation to combined cycle operation. For some power plant sites, modernization does not involve using any of the existing generator units themselves, but rather the generation site’s existing facilities such as transmission or fuel handling for an entirely new unit. For some steam units, generation output can be improved by installing more advanced equipment, such as the nuclear uprates discussed below. Other modernizations allow for changes in fuel type, or increased ability to use alternate fuels. Due to low natural gas price forecasts, the ability to run a unit on higher quantities of natural gas instead of fuel oil may be an economically viable option, even for an older generating unit.

Since the existing unit must be removed from service for a period of time, a utility's reliability is affected during the conversion process. As a result, scheduling modernizations during periods of temporary excess capacity is more desirable. With the forecasted decline in load, several of Florida's utilities may have sufficient reserve margins to allow some of their smaller units to be converted, and the upcoming ten-year planning horizon appears to be an ideal window for completing these types of projects. Not all sites are candidates for modernization due to site layout and other concerns, and to minimize rate impacts, modernization of existing units should be investigated before considering new construction. Utilities should continue to explore potential conversion projects and report the feasibility and economic viability of each conversion in next year's TYSPs and before any need determination filing.

In response to a staff data request, the TYSP utilities identified the following facilities as potentially capable of conversion. Table 15 below summarizes their responses for conversion from fossil steam generation. Additional units were identified for conversion from simple cycle combustion turbines to combined cycle units.

Table 15. State of Florida: Potential Steam Units for Modernization

| Utility | Generating Unit Name | Fuel Type | Summer Capacity (MW) | Original In-Service Date | Modernization Type |
|---------|----------------------------|----------------|----------------------|--------------------------|--------------------|
| FPL | Manatee Units 1 & 2 | Oil / NG | 1624 | 1976 - 1977 | CC |
| FPL | Martin Units 1 & 2 | Oil / NG | 1652 | 1980 - 1981 | CC |
| FPL | Sanford Unit 3 | Oil / NG | 138 | 1959 | CC |
| FPL | Turkey Point Units 1 & 2 | Oil / NG | 788 | 1967 - 1968 | CC |
| FPL | Cutler Unit 5 & 6 | NG | 205 | 1954 - 1955 | CC |
| PEF | Anclote Units 1 & 2 | NG / Oil | 1011 | 1974 - 1978 | CC |
| PEF | Suwannee River Units 1 - 3 | NG / Oil | 129 | 1953 - 1956 | CC/RF |
| PEF | Crystal River Units 1 & 2 | Coal | 873 | 1966 - 1969 | CC/IGCC |
| PEF | Crystal River Units 4 & 5 | Coal | 1422 | 1982 - 1984 | CC/IGCC |
| GULF | Crist Units 4 & 5 | Coal | 150 | 1959 - 1961 | Natural Gas |
| GULF | Scholz Units 1 & 2 | Coal | 92 | 1953 | Biomass |
| JEA | SJRPP Units 1 & 2 | Coal / Petcoke | 626 | 1987 - 1988 | CC |
| JEA | Northside Unit 3 | NG / Oil | 524 | 1977 | CC |

Source: Responses to Staff Data Request

The Commission has previously granted determinations of need for three conversions from fossil steam to combined cycle units. The approved conversions, located at FPL's Cape Canaveral, Riviera, and Port Everglades sites, represent a significant increase in generating capacity while reusing the plant site and reducing fuel usage and emissions. PEF has also recently conducted a conversion of its Bartow plant from fossil steam to a combined cycle unit. This conversion did not require a PPSA determination of need.

Impact of EPA Regulations

In addition to maintaining a fuel efficient and diverse fleet, Florida's utilities must also comply with changing environmental requirements. Within the past several years, the EPA has finalized or proposed several rules which will impact both existing and planned units within the

state. Potential environmental requirements and their associated costs must be considered to fully evaluate any new supply-side resources, as well as the maintenance and dispatch of existing generating units.

While at this time no units are anticipated to be retired as a result of any of these regulations, they do represent an increase cost of operations. Each utility should evaluate whether these additional costs or limitations allow the continued economic operation of each impacted unit, and whether installation of emissions control equipment, fuel switching, or retirement is the proper course of action to maintain the lowest cost to customers and meet environmental requirements. Several of the TYSP utilities have provided preliminary estimates based upon known and proposed rule language, and are shown in Table 16 below.

Table 16. TYSP Utilities: Preliminary Estimates of EPA Rule Compliance Cost

| Utility | Preliminary Total Cost Estimates* |
|--|--------------------------------------|
| | (\$ Millions) |
| Florida Power & Light | \$348 - \$1,741 |
| Progress Energy Florida | \$165 - \$1,330 |
| Tampa Electric Company | \$763 |
| Gulf Power Company | \$1,270 - \$2,737 |
| Florida Municipal Power Agency | \$39 |
| Gainesville Regional Utilities | Not Available |
| JEA | Not Available |
| Lakeland Electric | Not Available |
| Orlando Utilities Commission | \$157 |
| Seminole Electric Cooperative | Not Available |
| City of Tallahassee | \$5 |
| Total of All Utilities | \$2,747 - \$6,772 |
| * These estimates are not final, and may not include all rules. Source: Responses to Staff Data Request | |

Table 17 is a partial listing of notable units and their anticipated unit costs for compliance. At this time, several of the proposed EPA Rules are the subject of litigation, or have not yet produced a final rule. More precise data associated with compliance costs for all units is anticipated in future filings by the utilities once rules are finalized and environmental compliance methods are determined.

Table 17. TYSP Utilities: Preliminary Estimates of EPA Rule Compliance Costs by Unit

| Primary Owner | Facility Name | Fuel | Net Summer Capacity | EPA Rule Impact (\$ Million) | | | | Total |
|---------------------|-------------------|------|---------------------|------------------------------|--------------------|--------------------|-------------------|--------------------|
| | | | | MATS ⁸ | CSPAR ⁹ | CWIS ¹⁰ | CCR ¹¹ | |
| PEF | Anclote 1&2 | Oil | 1011 | 80 | - | 15-130 | - | 95-210 |
| PEF | Bartow 4 | NG | 1,133 | - | - | 10-170 | - | 10-170 |
| PEF | Crystal River 1&2 | Coal | 873 | TBD | - | 45-780 | TBD | 45-780 |
| PEF | Crystal River 4&5 | Coal | 1422 | 5-50 | - | 2-5 | TBD | 7-55 |
| PEF | Suwannee 1-3 | Oil | 129 | - | - | 5-75 | - | 5-75 |
| TECO | Big Bend 1-4 | Coal | 1552 | 10 | - | 400 | 3-6 | 413-416 |
| TECO | Polk 1 | Coal | 220 | - | - | - | 1-2.5 | 1-2.5 |
| TECO | Bayside 1&2 | NG | 1,630 | - | - | 400 | - | 400 |
| GULF | Daniel 1-2 | Coal | 510 | 310-617 | | 1-2 | 110-210 | 421-829 |
| GULF | Crist 4-5 | Coal | 150 | 40-305 | | 26-47 | 170-450 | 236-802 |
| GULF | Crist 6-7 | Coal | 756 | | | | | |
| GULF | Smith 1-2 | Coal | 357 | 60-288 | | 1-65 | 30-260 | 91-613 |
| GULF | Scholz 1-2 | Coal | 92 | 6-97 | | 1-50 | 160-180 | 167-327 |
| OUC | Stanton 1&2 | Coal | 886 | 2 | 118 | - | 13 | 133 |
| Total Impact | | | 10,721 | 631-1,557 | | 904-2,124 | 487-1,122 | 2,024-4,813 |

Source: Responses to Staff Data Request

Power Plant Siting Act

The Florida PSC is given exclusive jurisdiction by the Legislature, through the PPSA, to be the forum for determining the need for new electric power plants. Any proposed steam or solar generating unit of at least 75 MW requires certification under the Power Plant Siting Act.

Approximately 7,200 MW of new generating units are planned to enter service over the next 10-year period, consisting solely of natural gas-fired combustion turbines and combined cycle units. A majority of this capacity has already received a determination of need from the Commission or is exempted from the statutory requirements of the PPSA. Only 2,418 MW still requires certification, as shown in Table 18. TECO has recently issued a Request for Proposals (RFP) for its planned unit, a combined cycle conversion of several existing simple cycle combustion turbines at the Polk Power Station, and filed for a need determination on September 12, 2012.

⁸ Mercury and Air Toxics Standards (MATS) Rule.

⁹ Cross-State Air Pollution Rule (CSAPR)

¹⁰ Cooling Water Intake Structures (CWIS) Rule

¹¹ Coal Combustion Residuals (CCR) Rule.

Table 18. State of Florida: Projected Units Requiring Power Plant Siting Act Certification

| Utility | Generating Unit Name | Summer Capacity (MW) | Certification Dates | | In-Service Date |
|-------------|-----------------------------|----------------------|----------------------------|----------------|-----------------|
| | | | Need Approved (Commission) | PPSA Certified | |
| FPL | St. Lucie Unit 1 Uprate | 129 | 01/2008 | 09/2008 | 05/2012 |
| FPL | Turkey Point Unit 3 Uprate | 123 | 01/2008 | 10/2008 | 06/2012 |
| FPL | St. Lucie Unit 2 Uprate | 84 | 01/2008 | 09/2008 | 10/2012 |
| FPL | Turkey Point Unit 4 Uprate | 123 | 01/2008 | 10/2008 | 02/2013 |
| FPL | Cape Canaveral | 1,210 | 09/2008 | 10/2009 | 06/2013 |
| FPL | Riviera Beach | 1,212 | 09/2008 | 11/2009 | 06/2014 |
| PEF | Crystal River Unit 3 Uprate | 154 | 02/2007 | 08/2008 | 11/2014 |
| FPL | Port Everglades | 1,277 | 04/2012 | 02/2013* | 06/2016 |
| TECO | Polk 2-5 CC | 1,063 | - | - | 01/2017 |
| PEF | Unknown | 767 | - | - | 06/2019 |
| SEC | Unnamed CC1 | 196 | - | - | 12/2020 |
| SEC | Unnamed CC2 | 196 | - | - | 12/2020 |
| SEC | Unnamed CC3 | 196 | - | - | 12/2021 |

*Estimated Date for Siting Board Hearing on Site Certification.
Source: Utilities 2012 TYSPs

Nuclear

Nuclear capacity, while an alternative to natural gas-fired generation, is capital-intensive and requires a long lead time to construct. Florida’s utilities project an expansion of nuclear power in the state through uprates at existing nuclear power plants, and the construction of four new nuclear units. FPL’s and PEF’s TYSPs anticipate approximately 600 MW of capacity to be added by uprates.

While PEF’s 2012 TYSP originally projected the in-service date for Levy Unit 1 in 2021, PEF’s filing in Docket No. 120009-EI indicates that it will be delayed until 2024. Table 19 below provides a summary of nuclear capacity additions planned in the State.

Table 19. State of Florida: Projected Nuclear Uprates & New Units

| Utility | Generating Unit Name | Summer Capacity (MW) | In-Service Date |
|--------------------------------------|----------------------|----------------------|-----------------|
| Existing Nuclear Unit Uprates | | | |
| FPL | St. Lucie Unit 1 | 129 | 05/2012 |
| FPL | Turkey Point Unit 3 | 123 | 06/2012 |
| FPL | St. Lucie Unit 2 | 84 | 10/2012 |
| FPL | Turkey Point Unit 4 | 123 | 02/2013 |
| PEF | Crystal River Unit 3 | 154 | 11/2014 |
| New Nuclear Units | | | |
| FPL | Turkey Point 6 | 1100 | 06/2022 |
| FPL | Turkey Point 7 | 1100 | 06/2023 |
| PEF | Levy 1 | 1092 | 06/2024 |
| PEF | Levy 2 | 1092 | 06/2025 |

Source: Utilities 2012 TYSPs, Utilities filings in Docket 120009-EI

Natural Gas

With the exception of the aforementioned renewable and nuclear capacity, all remaining new generation comes in the form of natural gas fired combustion turbines or combined cycle units. The 2012 TYSPs include approximately 7,200 MW of natural gas-fired generation.

A total of 1,571 MW of natural gas-fired combustion turbine capacity is expected to enter service by 2021. Because these units are not steam-fired capacity, they do not require siting under the PPSA. A list of all combustion turbine units entering service is included in Table 20.

Table 20. State of Florida: Projected New Combustion Turbines

| Utility | Generating Unit Name | Summer Capacity (MW) | In-Service Date |
|---------|----------------------|----------------------|-----------------|
| SEC | Unnamed CT1 | 158 | 12/2018 |
| TECO | Future CT 1 | 149 | 05/2019 |
| SEC | Unnamed CT2 | 158 | 12/2019 |
| SEC | Unnamed CT3 | 158 | 12/2020 |
| SEC | Unnamed CT4 | 158 | 12/2020 |
| SEC | Unnamed CT5 | 158 | 12/2020 |
| SEC | Unnamed CT6 | 158 | 05/2021 |
| SEC | Unnamed CT7 | 158 | 12/2021 |
| SEC | Unnamed CT8 | 158 | 12/2021 |
| SEC | Unnamed CT9 | 158 | 12/2021 |

Source: Utilities 2012 TYSPs

The remainder of the natural gas-fired additions come from combined cycle units, which currently represent the most abundant type of generating capacity in the State of Florida, making up approximately a third of installed capacity in 2012. As combined cycles utilize steam generated from the waste heat of combustion turbines, they fall under the PPSA when they have greater than 75 MW of steam capacity. Table 21 below includes all combined cycle units planned to enter service by 2021. With these new additions (6,117 MW in total), natural gas-fired combined cycles will represent approximately half of all generation within the state.

Table 21. State of Florida: Projected New Combined Cycle Units

| Utility | Generating Unit Name | Summer Capacity (MW) | In-Service Date |
|---------|----------------------|----------------------|-----------------|
| FPL | Cape Canaveral | 1,210 | 06/2013 |
| FPL | Riviera Beach | 1,212 | 06/2014 |
| FPL | Port Everglades | 1,277 | 06/2016 |
| TECO | Polk 2-5 CC | 1,063 | 01/2017 |
| PEF | Unknown | 767 | 06/2019 |
| SEC | Unnamed CC1 | 196 | 12/2020 |
| SEC | Unnamed CC2 | 196 | 12/2020 |
| SEC | Unnamed CC3 | 196 | 12/2021 |

Source: Utilities 2012 TYSPs

Transmission Capacity

As generation capacities increase, the transmission system must grow accordingly to maintain the capability of delivering the energy to the end user. The Commission has been given broad authority pursuant to Chapter 366, F.S., to require reliability within Florida’s coordinated electric grid and to ensure the planning, development, and maintenance of adequate generation, transmission, and distribution facilities within the state.

The Commission has authority over certain proposed transmission lines under the Transmission Line Siting Act (TLSA). To require certification under Florida’s TLSA, a proposed transmission line must meet the following criteria: a nominal voltage rating of at least 230 kV, crossing a county line, and a length of at least 15 miles. Proposed lines in an existing corridor are also exempt from TLSA requirements. The Commission determines the reliability need for and the proposed starting and ending points for lines requiring TLSA certification. The Commission must issue a final order granting or denying a determination of need within 90 days of the petition filing. The proposed corridor route is determined by the DEP during the certification process. Much like the PPSA, the Governor and Cabinet sitting as the Siting Board ultimately must approve or deny the overall certification of the proposed line.

Table 22 below lists all proposed transmission lines in the 2012 TYSPs that require TLSA certification. The Polk-Aspen-FishHawk line is directly associated with the combined cycle conversion at the Polk Power Station, and is anticipated to be reviewed concurrently.

Table 22. State of Florida: Proposed Transmission Requiring Transmission Line Siting Act Certification

| Utility | Transmission Line | Line Length (Miles) | Nominal Voltage (kV) | Certification Dates | | Commercial In-Service Date |
|---------|-----------------------------|---------------------|----------------------|----------------------------|----------------|----------------------------|
| | | | | Need Approved (Commission) | TLSA Certified | |
| PEF | Intercession City - Gifford | 13 | 230 | 09/2007 | 01/2009 | 05/2013 |
| FPL | Manatee – Bobwhite | 30 | 230 | 08/2006 | 11/2008 | 12/2014 |
| FPL | St Johns – Pringle | 25 | 230 | 05/2005 | 04/2006 | 12/2016 |
| TECO | Polk-Aspen-FishHawk | 62.5 | 230 | - | - | 01/2017 |

Source: FRCC 2012 Load & Resource Plan, Utilities 2012 TYSPs



Utility Perspectives

FLORIDA POWER AND LIGHT COMPANY (FPL)

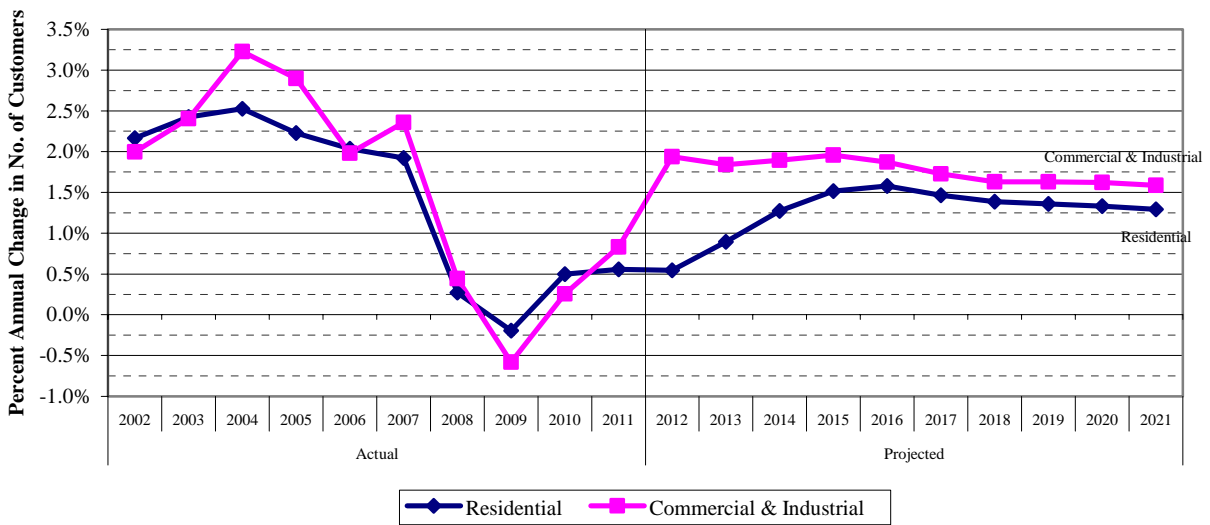
FPL is the state’s largest electric utility. The utility’s service territory is within the FRCC region, and is primarily in southern Florida and along the east coast. As FPL is an IOU, the Commission has regulatory authority over all aspects of operations, including rates and safety.

In 2011, FPL had an average of 4,547,051 customers, and had a total net energy for load of 103,327 GWh, approximately 47.3 percent of the NEL generated in the entire state last year.

Peak Demand and Energy Forecasts

FPL Figure 1 illustrates the company’s actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth for 2012 through 2021. Positive growth is anticipated over the entire planning period, with an average annual growth rate (AAGR) of 1.39 percent. This compares to the actual AAGR of 2.27 for the period 2002 through 2007.

FPL Figure 1: Annual Customer Growth Rate by Customer Class



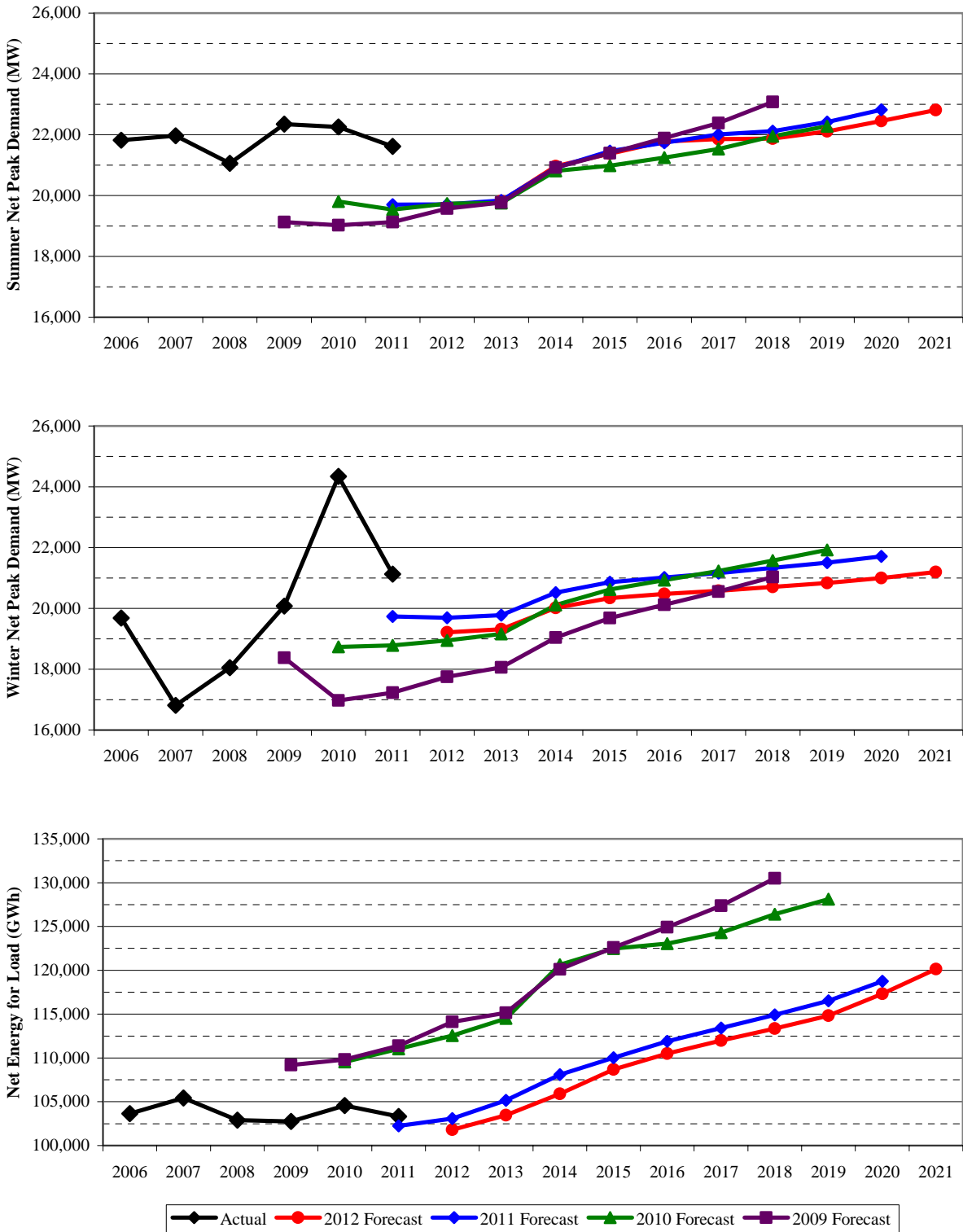
Source: FPL 2012 TYSP

The following three graphs in FPL Figure 2 show FPL’s historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current year and three previous forecast years. These figures show that the current forecast is similar but slightly lower than the 2011 values for both seasons of peak demand and NEL.

Analysis of FPL’s historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that FPL’s average forecast error is 12.12 percent. This value indicates that the company tends to over-forecast its retail energy sales by 12.12 percent, which is unfavorable when compared to the average forecast error for all eleven of the TYSP utilities, which was

11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

FPL Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts

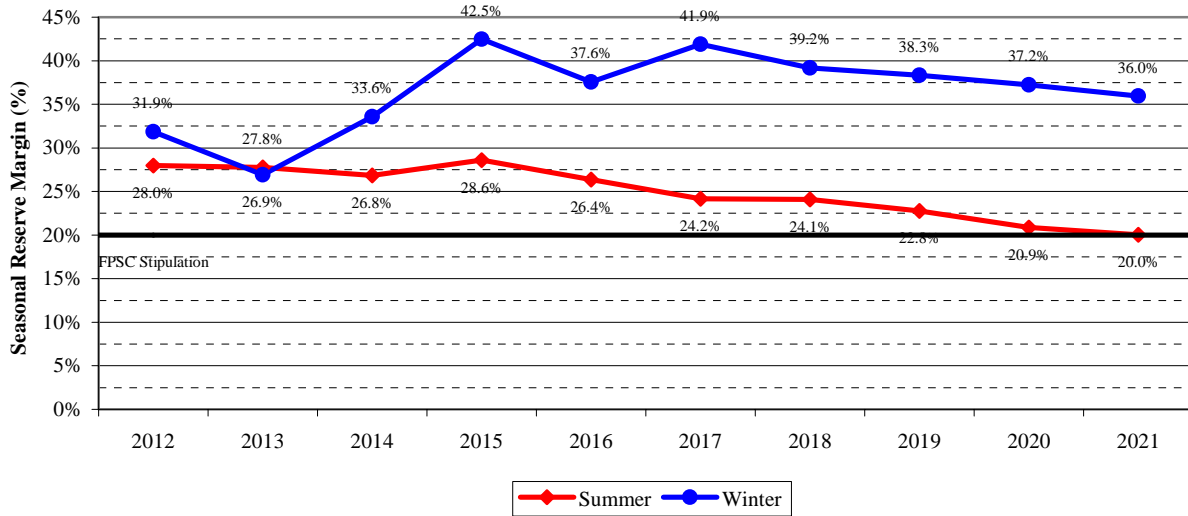


Source: FPL 2009 -2012 TYSPs

Reserve Margin Requirements

As mentioned in the Statewide Perspective, FPL maintains a minimum 20 percent reserve margin for planning purposes based on a stipulation approved by the Commission. FPL Figure 3 displays the projected reserve margin for FPL through the planning period for both seasonal peaks. As shown in the figure, summer peak demand would be the driving force for generation additions. The reserve margin shown below includes the cumulative impact of conservation and demand response on FPL’s system demand.

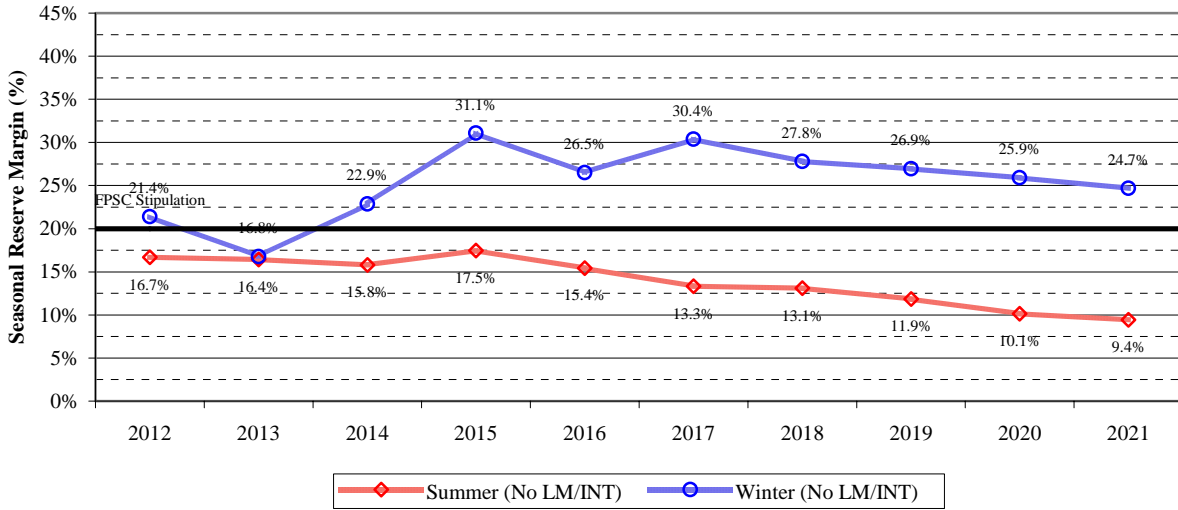
FPL Figure 3. Seasonal Reserve Margin (With LM/INT)



Source: FPL 2012 TYSP

Some concerns have been expressed regarding increased dependence upon demand response to meet customer peak demand. The concern is that interruptible load and load management programs are voluntary, and that customers may elect to opt-out of an existing program if the utility interrupted service too frequently. FPL Figure 4 shows the impact of excluding demand response programs from meeting customer demand, which causes the reserve margin to fall below both the company’s stipulated 20 percent reserve margin and the FRCC Region’s 15 percent planning margin for the summer only. FPL has indicated that it is continuing to study the possibility of instituting a generation-only minimum reserve.

FPL Figure 4. Seasonal Reserve Margin (Without LM/INT)

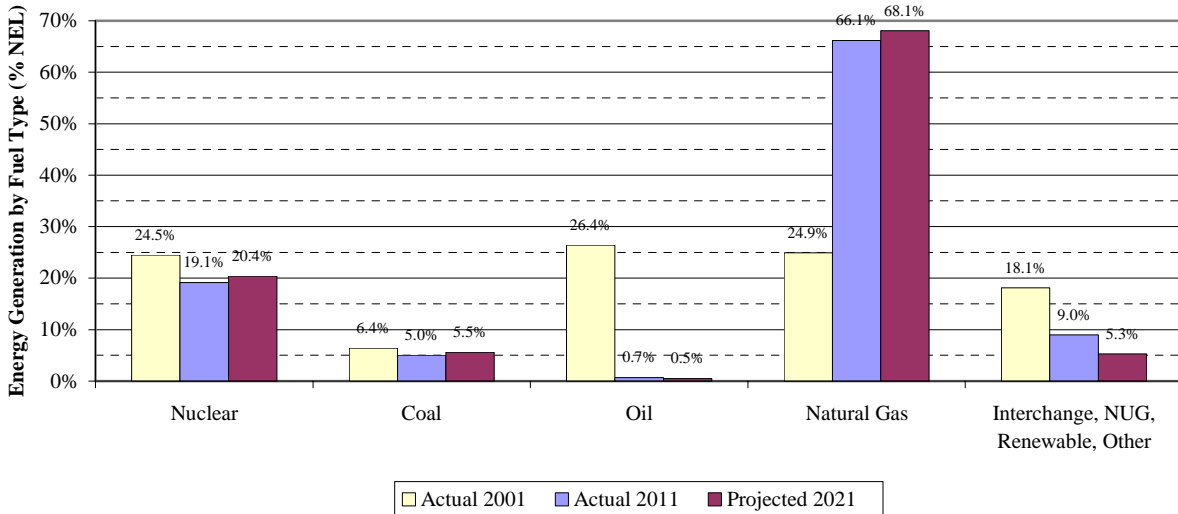


Source: FPL 2012 TYSP

Fuel Diversity

FPL Figure 5 shows FPL’s historic fuel mix for 2001 and 2011, and the projected fuel mix for 2021. FPL’s primary generation fuel is natural gas, which has increased from about a quarter of system energy in 2001, to approximately two-thirds by 2011. Natural gas is projected to remain the main system fuel, with 68.1 percent of net energy for load generated by natural gas.

FPL Figure 5. Net Energy for Load by Fuel Type



Source: FPL 2002 and 2012 TYSPs

Generation Additions

FPL's 2012 TYSP includes 3 new generating units, all of which are natural gas-fired combined cycles. FPL also anticipates uprates at all its nuclear generation units by 2013, and two new nuclear units, Turkey Point 6 & 7, which are planned beyond the planning horizon. All of the new generation units that FPL is planning to add to its system are shown in FPL Table 1.

FPL Table 1. Planned Generation Additions

| Generating Unit Name | Summer Capacity (MW) | Certification Dates (if Applicable) | | In-Service Date |
|---|----------------------|-------------------------------------|----------------|-----------------|
| | | Need Approved (Commission) | PPSA Certified | |
| Nuclear Unit Uprates | | | | |
| St. Lucie Unit #1 Uprates | 129 | 09/2008 | 09/2008 | 5/2012 |
| St. Lucie Unit #2 Uprates * | 84 | 09/2008 | 09/2008 | 10/2012 |
| Turkey Point Unit # 3 Uprates | 123 | 09/2008 | 10/2008 | 6/2012 |
| Turkey Point Unit # 4 Uprates | 123 | 09/2008 | 10/2008 | 2/2013 |
| Combined Cycle Unit Additions | | | | |
| Cape Canaveral Next Generation Clean Energy Center | 1,210 | 09/2008 | 10/2009 | 6/2013 |
| Riviera Beach Next Generation Clean Energy Center | 1,212 | 09/2008 | 11/2009 | 6/2014 |
| Port Everglades Next Generation Clean Energy Center | 1,277 | 4/2012 | 02/2013*** | 6/2016 |
| Nuclear Unit Additions | | | | |
| Turkey Point Unit #6** | 1,100 | 3/2008 | 12/2013*** | 6/2022 |
| Turkey Point Unit #7** | 1,100 | 3/2008 | 12/2013*** | 6/2023 |

*31 MW of St. Lucie Unit #2 uprates have already been achieved in 2011.

** These units are outside of the 2012-2021 planning period

*** This is the anticipated date of the Siting Board Hearing on Site Certification.

Source: FPL 2012 TYSP

PROGRESS ENERGY FLORIDA, INC. (PEF)

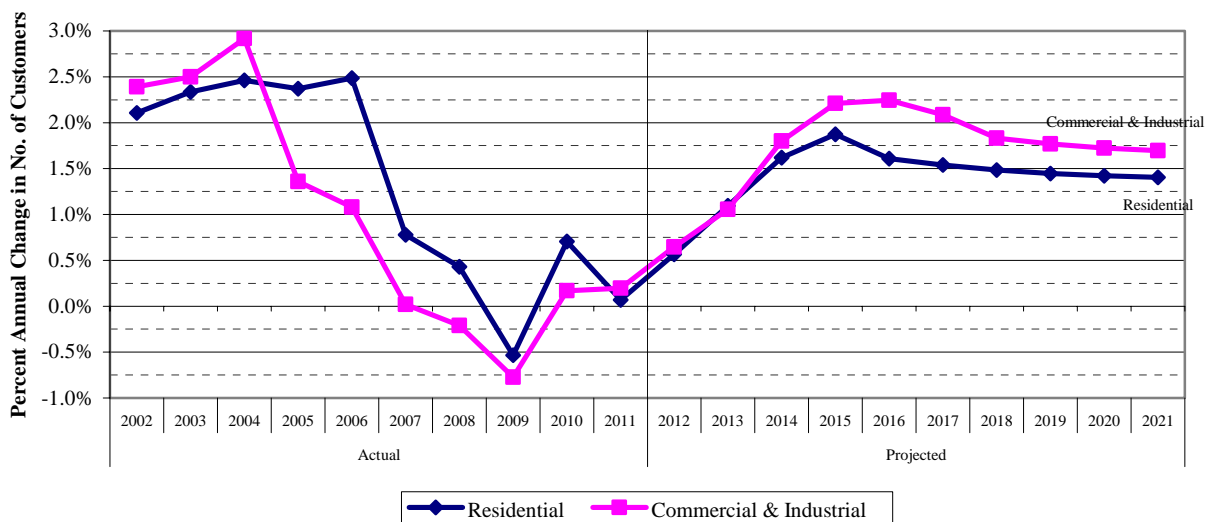
PEF is an investor-owned utility, and Florida’s second largest TYSP utility. The utility’s service territory is within the FRCC region, and is primarily located in central and west central Florida. As PEF is an IOU, the Commission has regulatory authority over all aspects of operations, including rates and safety.

In 2011, PEF had an average of 1,642,161 customers, and had a total net energy for load of 42,490 GWh, approximately 17.9 percent of the NEL generated in the entire state last year.

Peak Demand and Energy Forecasts

PEF Figure 1 illustrates the company’s actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth for 2012 through 2021. Customer growth is anticipated to increase from the period of the economic downturn until approximately 2015, and then remain steady or decline somewhat while remaining positive until the end of the period, yielding an average annual growth rate of 1.53 percent. This compares with the actual rate of 2.03 for the period 2002 through 2007.

PEF Figure 1. Annual Customer Growth Rate by Customer Class

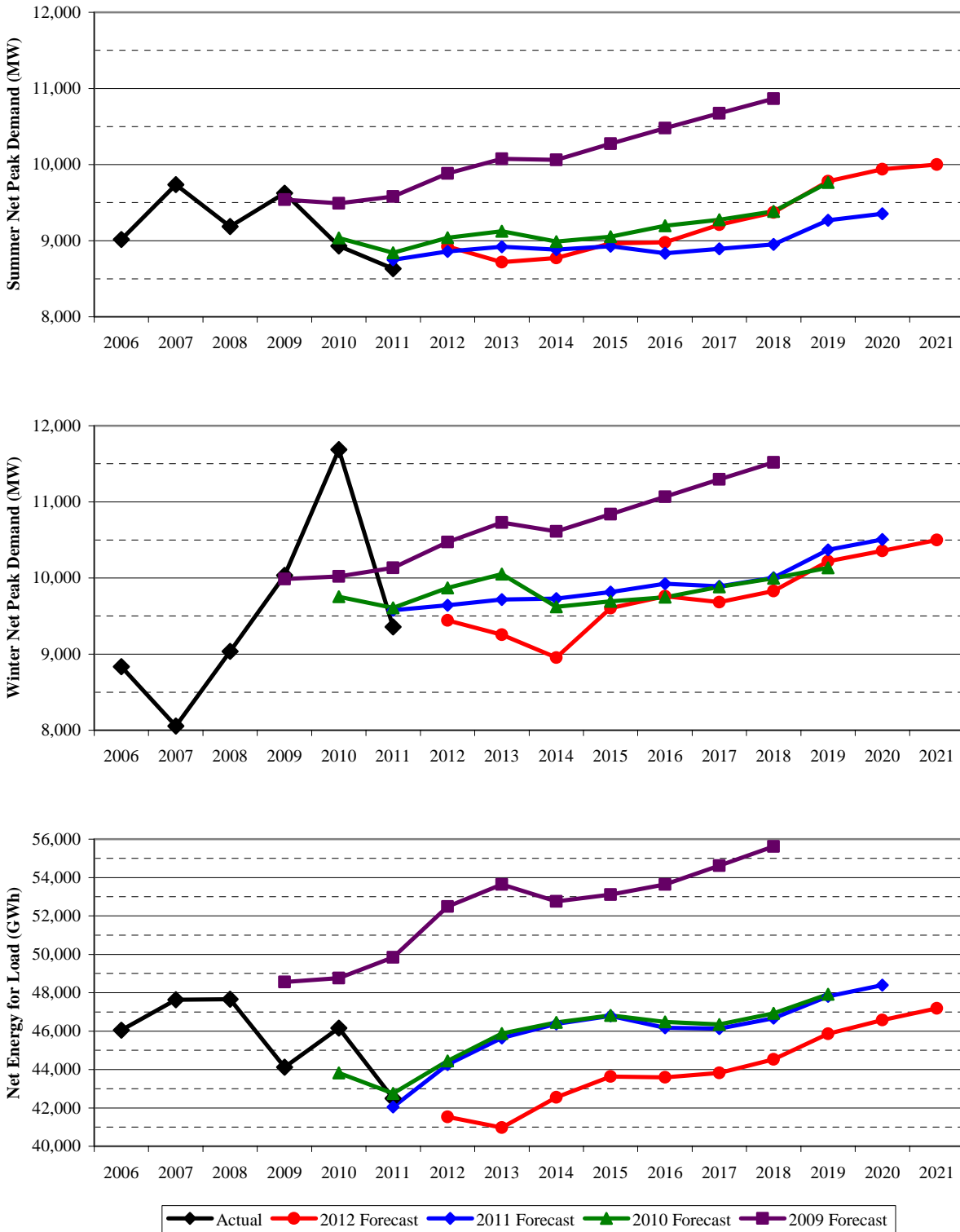


Source: PEF 2012 TYSP

The following three graphs in PEF Figure 2 show PEF’s historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current year and three previous forecast years. These figures show that the current forecast is significantly above last year’s in summer peak demand, but below the 2011 forecast for winter peak demand and NEL.

Analysis of PEF's historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that PEF's average forecast error is 11.36 percent. This value indicates that the company tends to over-forecast its retail energy sales by 11.36 percent, which is approximately equivalent to the average forecast error for all eleven of the TYSP utilities, which was 11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

PEF Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts

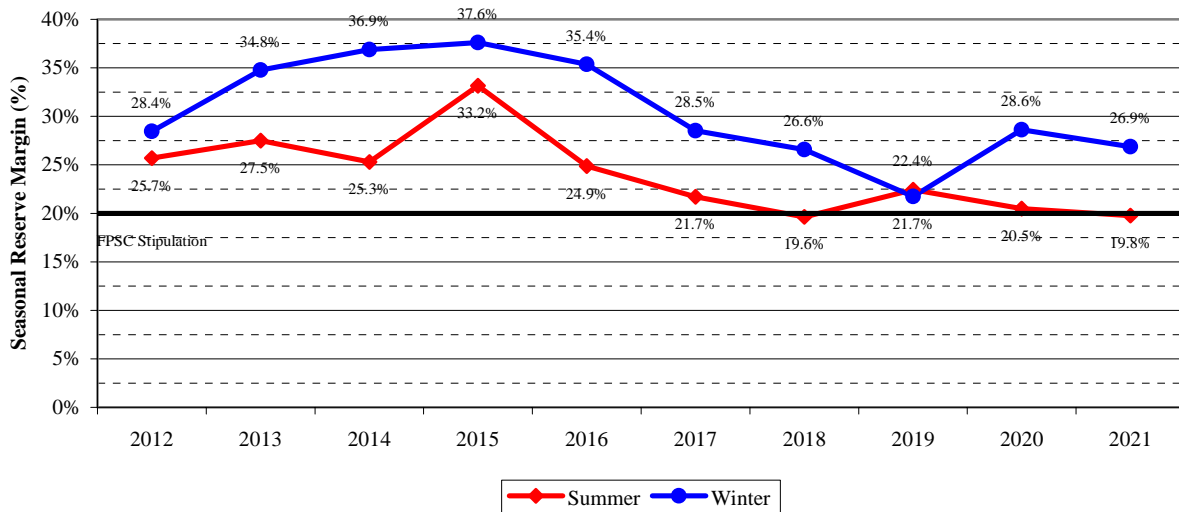


Source: PEF 2009 - 2012 TYSPs

Reserve Margin Requirement

As mentioned in the Statewide Perspective, PEF maintains a minimum 20 percent reserve margin for planning purposes based on a stipulation approved by the Commission. PEF Figure 3 displays the projected reserve margin for PEF through the planning period for both seasonal peaks. As shown in the figure, summer peak demand would be the driving force for generation additions. The reserve margin shown below includes the cumulative impact of conservation and demand response on PEF's system demand. The delay of the Levy 1 nuclear unit and its decrease of the company's reserve margin in 2021 is included in the graph.

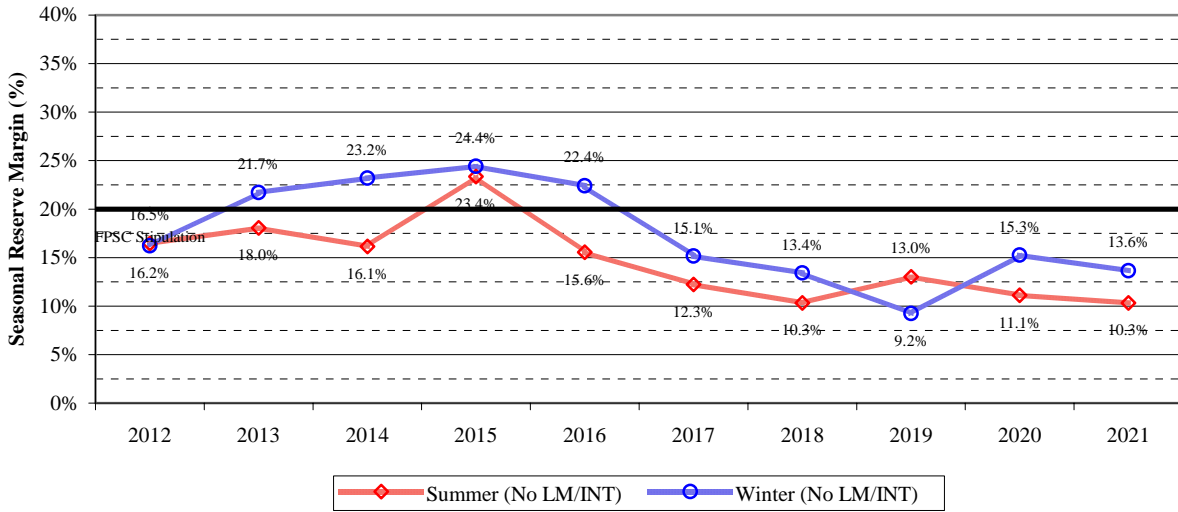
PEF Figure 3. Seasonal Reserve Margin (With LM/INT)



Source: PEF 2012 TYSP

Some concerns have been expressed regarding increased dependence upon demand response to meet customer peak demand. The concern is that interruptible load and load management programs are voluntary, and that customers may elect to opt-out of an existing program if the utility interrupted service too frequently. PEF Figure 4 shows the impact of excluding demand response programs from meeting customer demand, which causes the reserve margin to fall below both the company's stipulated 20 percent reserve margin and the FRCC Region's 15 percent planning margin.

PEF Figure 4. Seasonal Reserve Margin (Without LM/INT)

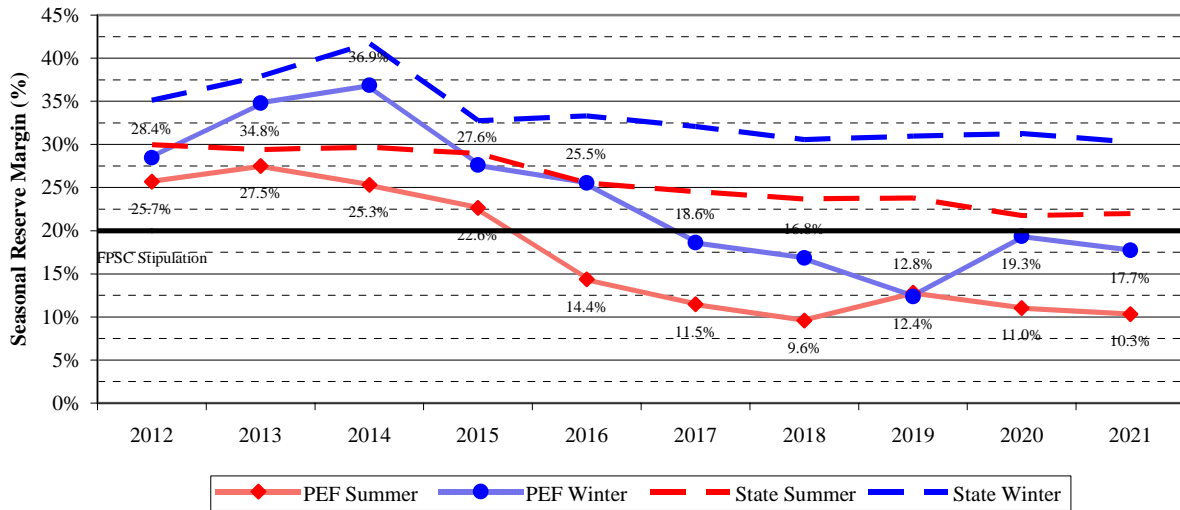


Source: PEF 2012 TYSP

Crystal River 3 Outage

The CR3 nuclear unit has been offline since 2009 due to a concrete delamination experience during a steam generator replacement project. Currently PEF anticipates CR3 returning to service in November 2014, but at this time the decision to repair or retire the unit has not been decided. PEF Figure 5 illustrates the reliability impact of not returning CR3 to service in 2014 and assuming no other changes to PEF’s available generation. As shown, PEF would fall below its 20 percent reserve requirement as early as the summer of 2016, and falling to a minimum reserve margin of 9.6 percent for the 2018 summer peak. In the event CR3 is retired or its return to service delayed past 2014, PEF must seek additional firm capacity to meet its reserve requirements, which may be from purchased power contracts, acceleration of currently planned units, and/or new generating units. While the loss of capacity associated with CR3 has a significant impact on PEF’s system, the statewide reserve margin appears adequate for possible purchased power agreements.

PEF Figure 5. Seasonal Reserve Margin With Potential Unit Retirements / Delays (With LM/INT)

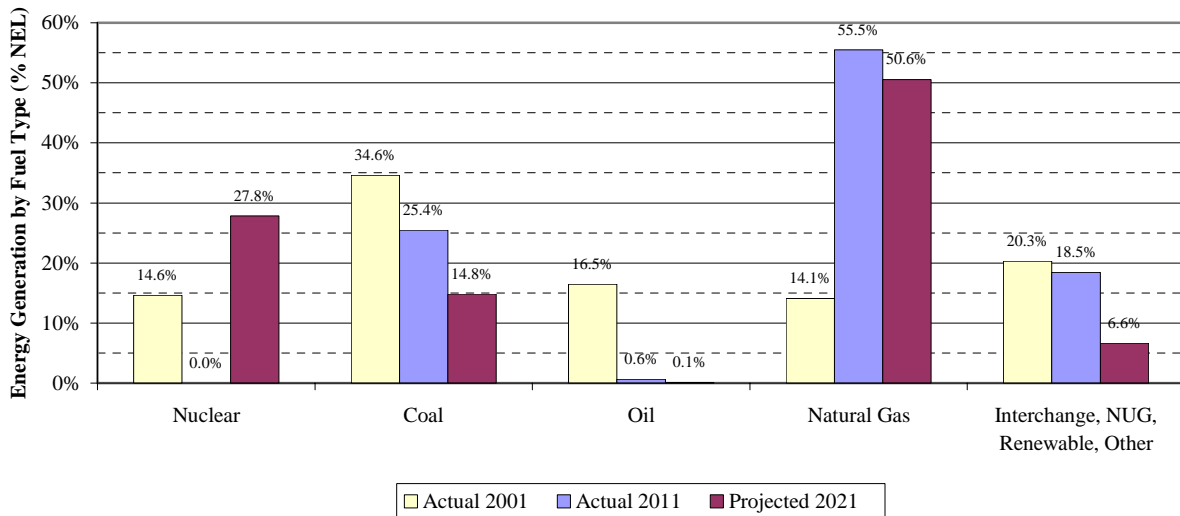


Source: PEF 2012 TYSP, Responses to Staff Data Request

Fuel Diversity

PEF Figure 6 shows PEF’s historic fuel mix for 2001 and 2011, and the projected fuel mix for 2021. PEF’s primary generation fuel is natural gas, which has increased from approximately 14 percent in 2001, to over 55 percent in 2011. Natural gas is projected to remain the main system fuel, but decline somewhat to 50.6 percent of net energy for load by 2021.

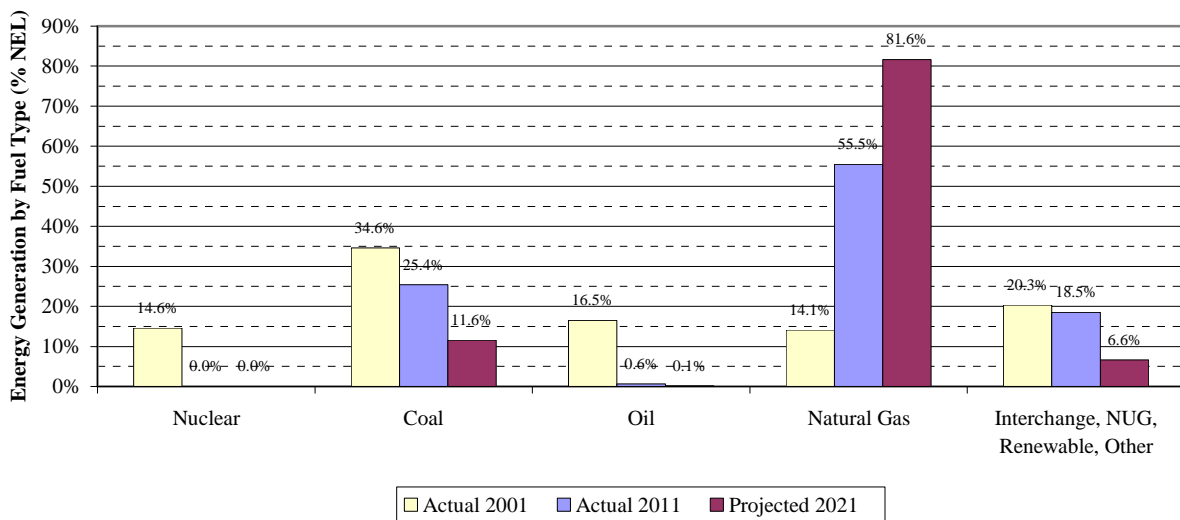
PEF Figure 6. Net Energy for Load by Fuel Type



Source: PEF 2002 and 2012 TYSPs

The decline in natural gas usage is primarily the result of an increase in nuclear generation from the inclusion of the now delayed Levy 1 nuclear unit and the return to service of CR3. While usage of coal for generation is expected to decline, this does not take into account the potential impact of retirements due to new environmental compliance requirements. During the 2012 TYSP workshop, PEF’s Crystal River 1 and 2, both coal-fired units, were identified by the Sierra Club/Earthjustice as facing challenges if new emissions control equipment was required. If the projected generation from these nuclear and coal units is displaced by natural gas, it would have the net effect of increasing natural gas’ share of PEF’s electric generation to 81.6 percent by 2021, as shown in PEF Figure 7 below.

PEF Figure 7. Net Energy for Load by Fuel Type with Displaced Generation



Source: PEF 2002 and 2012 TYSPs, Responses to Staff Data Requests

Generation Additions

PEF’s 2012 TYSP includes three generation additions, one of which has been delayed. The first is the uprate of the CR3 nuclear unit, which is subject to the uncertainties discussed above. The second is an unsited 767 MW combined cycle unit, scheduled to begin commercial operation in 2019. The last unit, the Levy 1 nuclear unit, has been delayed outside of the TYSP planning horizon. These are summarized in PEF Table 1.

PEF Table 1. Planned Generation Additions

| Generating Unit Name | Summer Capacity (MW) | Certification Dates (if Applicable) | | In-Service Date |
|--------------------------------------|----------------------|-------------------------------------|----------------|-----------------|
| | | Need Approved (Commission) | PPSA Certified | |
| Nuclear Unit Upgrades | | | | |
| Crystal River 3 Upgrade | 154 | 2/2007 | 8/2008 | 11/2014 |
| Combined Cycle Unit Additions | | | | |
| Unknown | 767 | - | - | 6/2019 |
| Nuclear Unit Additions | | | | |
| Levy 1* | 1092 | 5/2008 | 8/2009 | 6/2024 |
| Levy 2* | 1092 | 5/2008 | 8/2009 | 6/2025 |

* These units are outside of the 2012-2021 planning period
 Source: PEF 2012 TYSP

TAMPA ELECTRIC COMPANY (TECO)

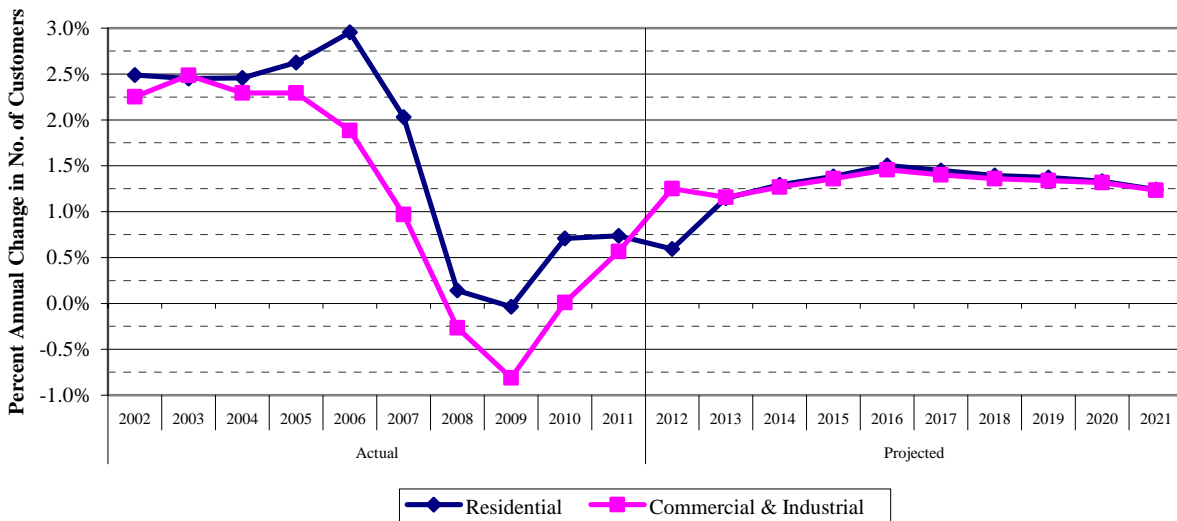
TECO is an investor-owned electric utility, and Florida’s third largest TYSP utility. The utility’s service territory is within the FRCC region, and consists primarily of the Tampa metropolitan area. As TECO is an IOU, the Commission has regulatory authority over all aspects of operations, including rates and safety.

In 2011, TECO had an average of 675,799 customers, and had a total net energy for load of 19,325 GWh, approximately 8.1 percent of the NEL generated in the state last year.

Peak Demand and Energy Forecasts

TECO Figure 1 illustrates the company’s actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth for 2012 through 2021. Customer growth is anticipated to stay relatively stable over the planning period, with an average annual growth rate of 1.34 percent. This compares with the actual rate of 2.45 percent for the period 2002 through 2007.

TECO Figure 1. Annual Customer Growth Rate by Customer Class



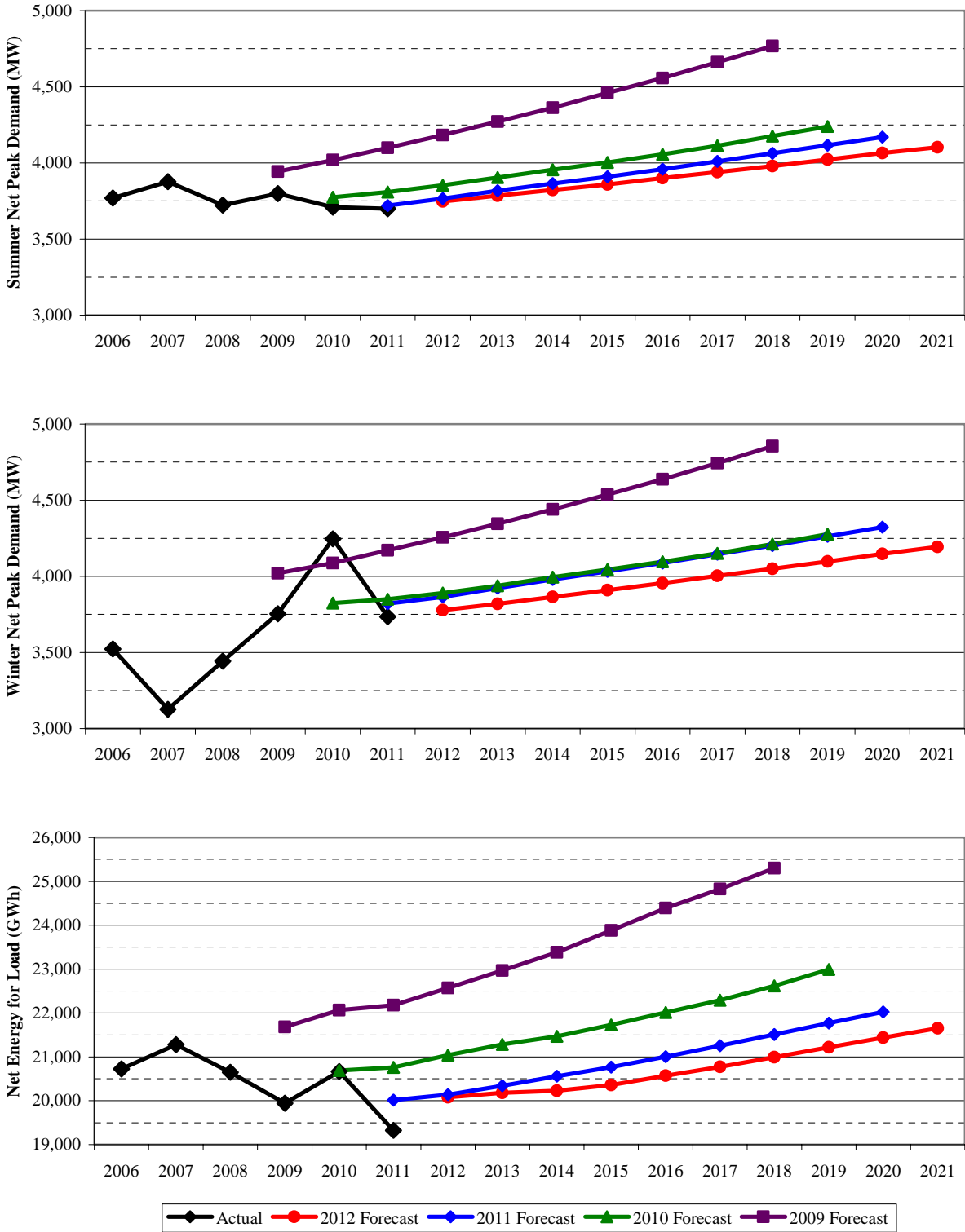
Source: TECO 2012 TYSP

The following three graphs in TECO Figure 2 show TECO’s historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current year and three previous forecast years. These figures show that the current forecast is lower than the 2011 forecast values for both seasons of peak demand and NEL.

Analysis of TECO’s historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that TECO’s average forecast error is 13.07 percent. This value indicates that the company tends to over-forecast its retail energy sales by 13.07 percent, which is

unfavorable when compared to the average forecast error for all eleven of the TYSP utilities, which was 11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

TECO Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts

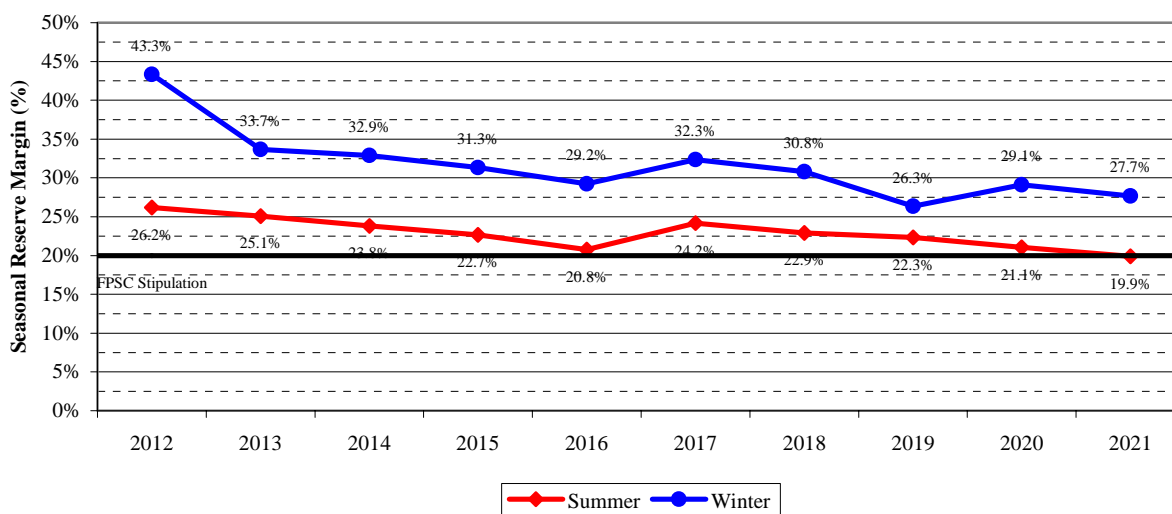


Source: TECO 2009 - 2012 TYSPs

Reserve Margin Requirement

As mentioned in the Statewide Perspective, TECO maintains a minimum 20 percent reserve margin for planning purposes based on a stipulation approved by the Commission. TECO Figure 3 displays the projected reserve margin for TECO through the planning period for both seasonal peaks. As shown in the figure, summer peak demand would be the driving force for generation additions. The reserve margin shown below includes the cumulative impact of conservation and demand response on TECO’s system demand.

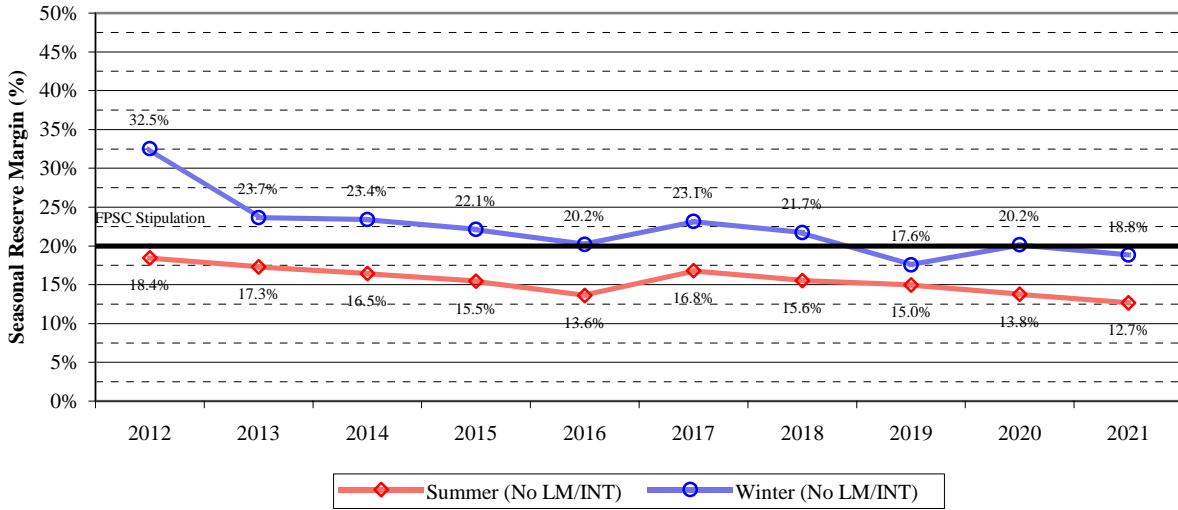
TECO Figure 3. Seasonal Reserve Margin (With LM/INT)



Source: TECO 2012 TYSP

TECO is the only IOU that currently maintains a minimum supply-side contribution to reserve margin, set at 7 percent. As with other utilities, the concern is that interruptible load and load management programs are voluntary, and that customers may elect to opt-out of an existing program if the utility interrupted service too frequently. TECO Figure 4 shows the impact of excluding demand response programs from meeting customer demand, which causes the reserve margin to fall below the company’s stipulated 20 percent reserve margin. Even without demand response, TECO exceeds its own supply-side requirements, and generally maintains the FRCC Region’s 15 percent planning margin, excluding three summer periods where it falls as low as 12.7 percent in 2021.

TECO Figure 4. Seasonal Reserve Margin (Without LM/INT)

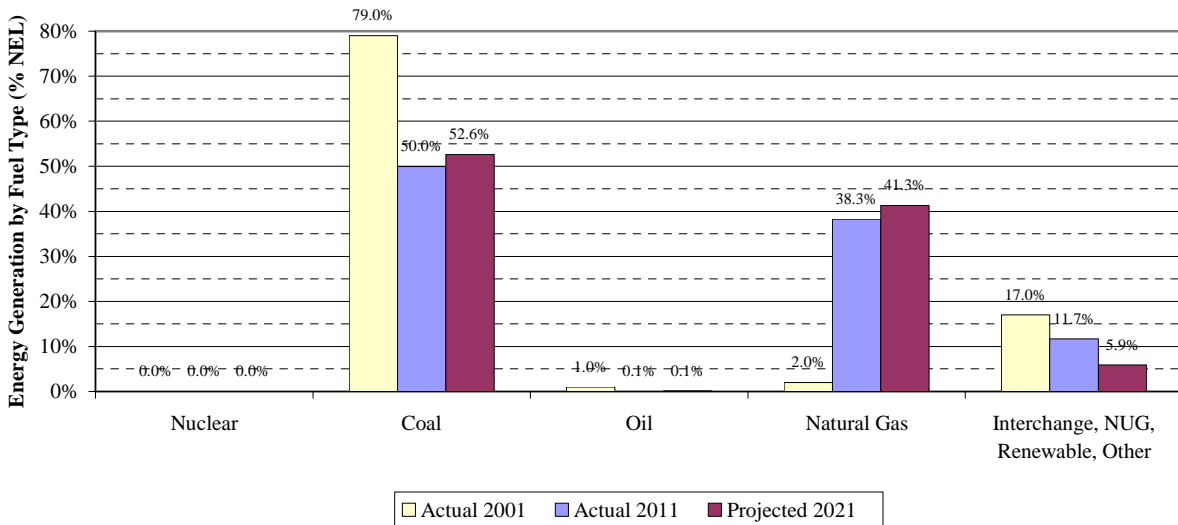


Source: TECO 2012 TYSP

Fuel Diversity

TECO Figure 5 shows TECO’s historic fuel mix for 2001 and 2011, and the projected fuel mix for 2021. TECO’s primary generation fuel is coal, although this has decreased from nearly 80 percent of system energy in 2001, to only 50 percent in 2011. A slight rebound is anticipated by the end of the planning period, with 52.6 percent of energy from coal-fired generation. Natural gas has increased from a minor fuel on the system, at 2.0 percent in 2001, to the secondary fuel at 38.3 percent in 2011, is also expected to make gains, increasing to 41.3 percent by the end of the planning period.

TECO Figure 5. Net Energy for Load by Fuel Type



Source: TECO 2002 and 2012 TYSPs

Generation Additions

TECO's 2012 TYSP includes two unit additions, including a conversion of its existing Polk facility to combined cycle operation in 2017, and the addition of a single 149 MW combustion turbine in 2019. This represents a reduction from the 2011 TYSP, where TECO included 8 smaller combustion turbines in addition to the Polk CC conversion. TECO's planned additions are summarized in TECO Table 1 below. TECO has recently issued a Request for Proposals (RFP) for its planned combined cycle conversion of several existing simple cycle combustion turbines at the Polk Power Station, and filed for a need determination on September 12, 2012.

TECO Table 1. Planned Generation Additions

| Generating Unit Name | Summer Capacity (MW) | Certification Dates (if Applicable) | | In-Service Date |
|--|----------------------|-------------------------------------|----------------|-----------------|
| | | Need Approved (Commission) | PPSA Certified | |
| Combined Cycle Unit Additions | | | | |
| Polk 2-5 CC | 1,063 | - | - | 01/2017 |
| Combustion Turbine Unit Additions | | | | |
| Future CT 1 | 149 | N/A | N/A | 05/2019 |

Source: TECO 2012 TYSP

GULF POWER COMPANY (GULF)

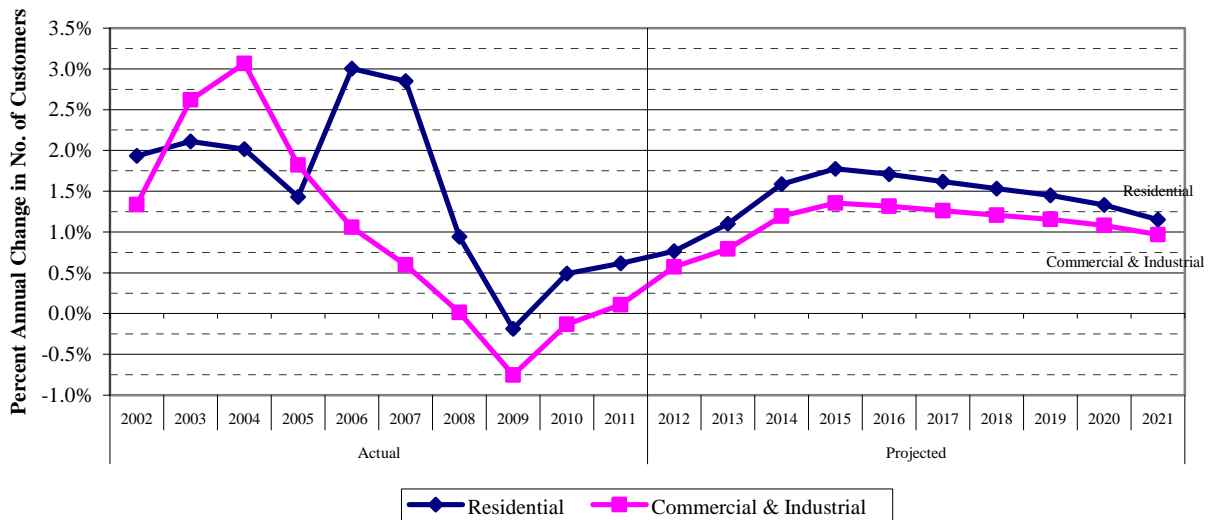
GULF is the smallest investor-owned generating utility, and the sixth largest TYSP utility. The utility’s service territory includes western Florida, and is the only TYSP utility outside of the FRCC region. Gulf Power, along with Alabama Power, Georgia Power, and Mississippi Power, are members of the Southern Company electric system. GULF therefore has SERC as its regional reliability entity. Because GULF plans and operates its system in conjunction with the other Southern Company utilities, not all of the energy generated by the GULF units is consumed in Florida. As GULF is an IOU, the Commission has regulatory authority over all aspects of operations, including rates and safety.

In 2011, GULF had an average of 432,403 customers, and had a total net energy for load of 12,086 GWh, approximately 5.1 percent of the NEL generated in the state last year.

Peak Demand and Energy Forecasts

GULF Figure 1 illustrates the company’s actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth for 2012 through 2021. As shown below, GULF anticipates annual customer growth rates to climb until approximately 2015, and then begin to decline slightly but remain positive till the end of the planning period, with an average annual growth rate of 1.43 percent. This compares to the actual rate of 2.22 percent for the period 2002 through 2007.

GULF Figure 1. Annual Customer Growth Rate by Customer Class



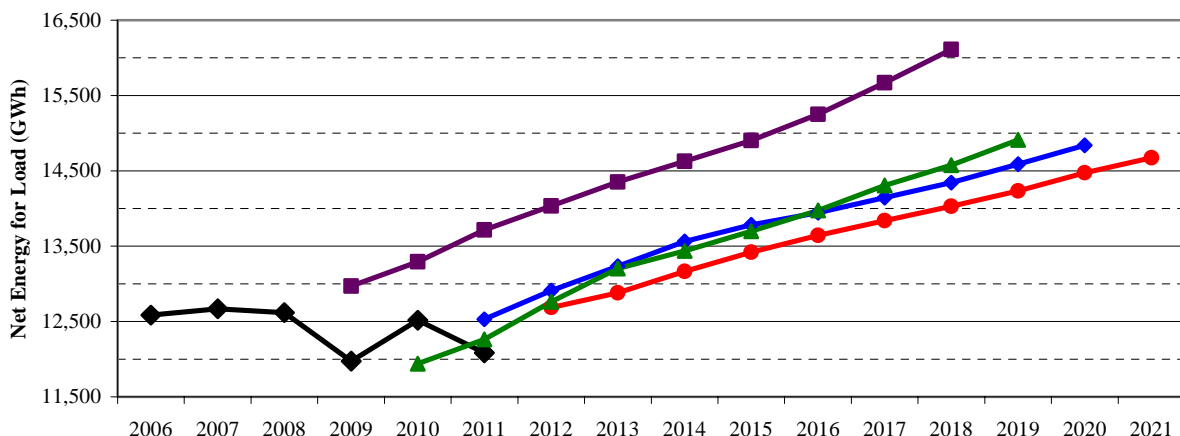
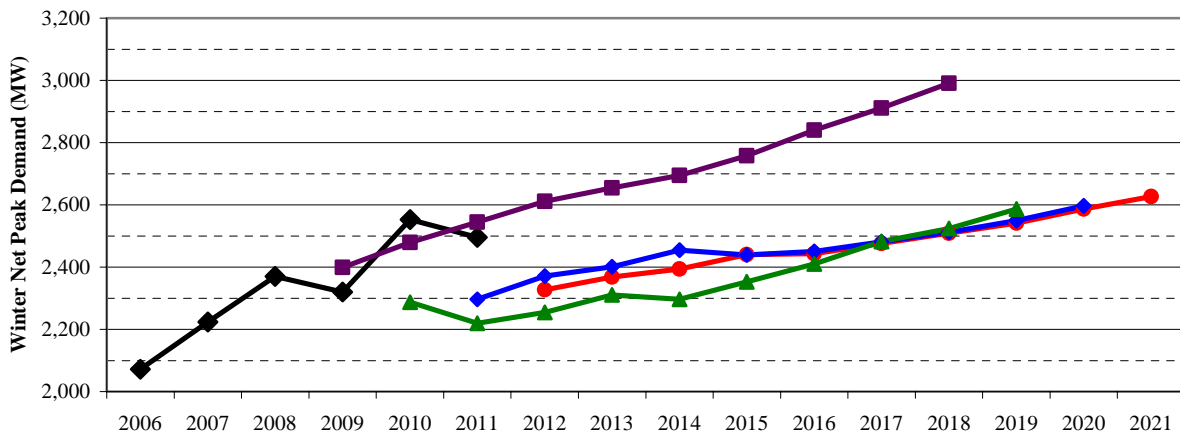
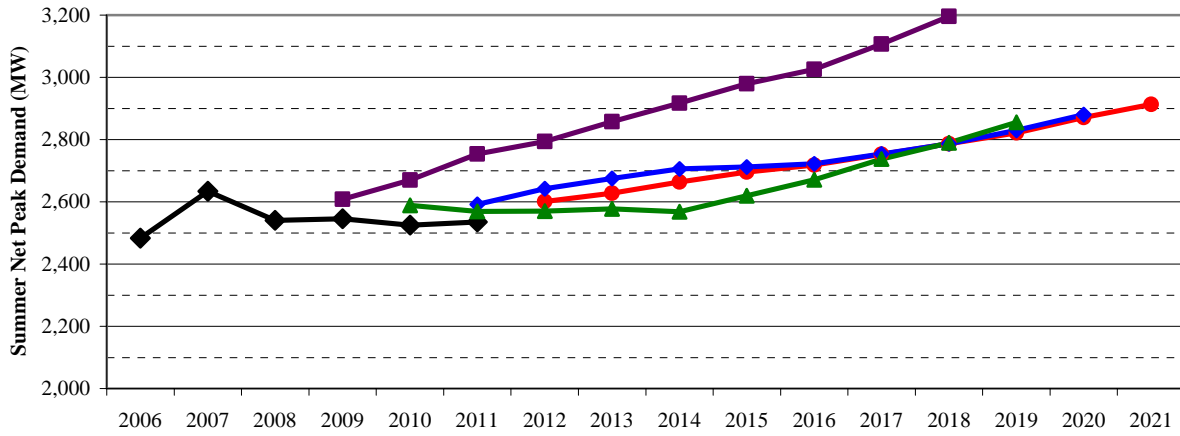
Source: GULF 2012 TYSP

The following three graphs in GULF Figure 2 show GULF’s historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current

year and three previous forecast years. These figures show that the current forecast is similar but slightly below last year's forecast in both seasonal peak demand and NEL.

Analysis of GULF's historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that GULF's average forecast error is 5.44 percent. This value indicates that the company tends to over-forecast its retail energy sales by 5.44 percent, the lowest of the TYSP Utilities. GULF's forecast error is favorable when compared to the average forecast error for all eleven of the TYSP utilities, which was 11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

GULF Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts



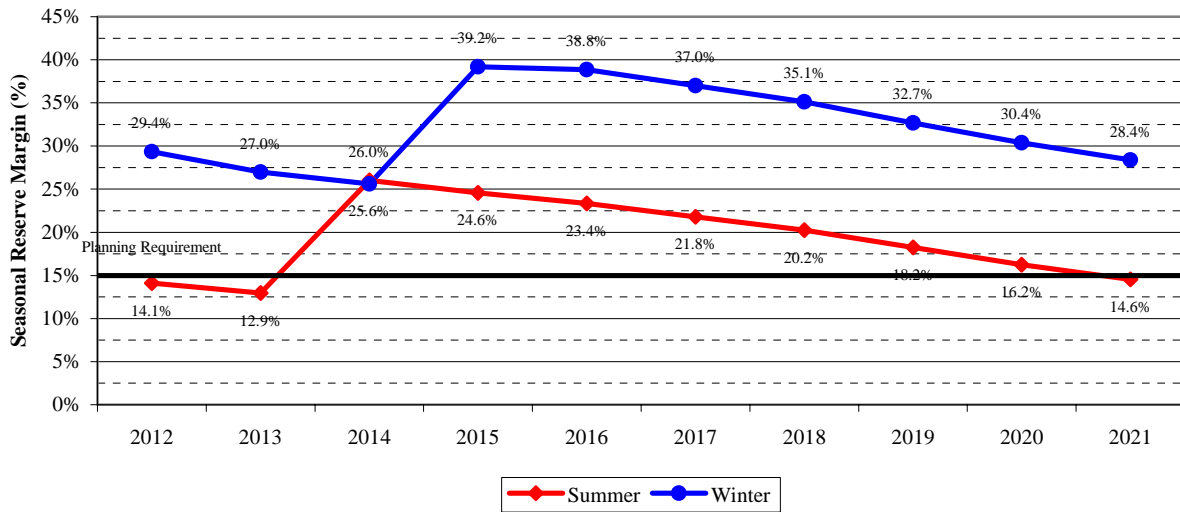
Actual
 2012 Forecast
 2011 Forecast
 2010 Forecast
 2009 Forecast

Source: GULF 2009 - 2012 TYSPs

Reserve Margin Requirement

GULF is not within the FRCC region, and therefore not subject to its minimum reserve margin requirements. GULF operates within SERC, and as part of the Southern Power Pool has a planning reserve margin of 15 percent after 2015. The company's projected reserve margin for summer and winter peak demand is shown below in GULF Figure 3. The reserve margin shown below includes the cumulative impact of conservation, but as GULF does not administer any active demand response programs, there are no non-firm load components in its reserve margin.

GULF Figure 3. Seasonal Reserve Margin

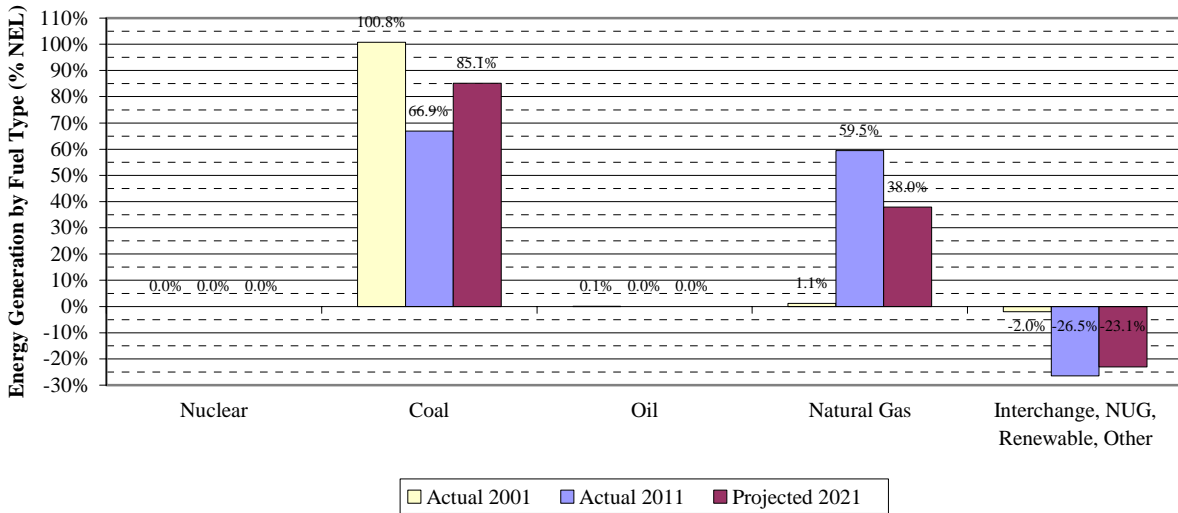


Source: GULF 2012 TYSP

Fuel Diversity

GULF Figure 4 shows GULF's historic fuel mix for 2001 and 2011, and the projected fuel mix for 2021. The negative value for interchange/other category of generation represents power sales, as GULF generates more energy than its native customers consume. GULF's primary generation fuel has been coal, with 66.9 percent of native load served by it in 2011, down from 100.8 percent in 2001. This is anticipated to rebound by the end of the planning period, with a projected 85.1 percent of native NEL from coal in 2021. The main source of reduction in coal generation comes from natural gas, which was used to produce 59.5 of native NEL in 2011, and is projected to decline to 38.0 percent by 2021.

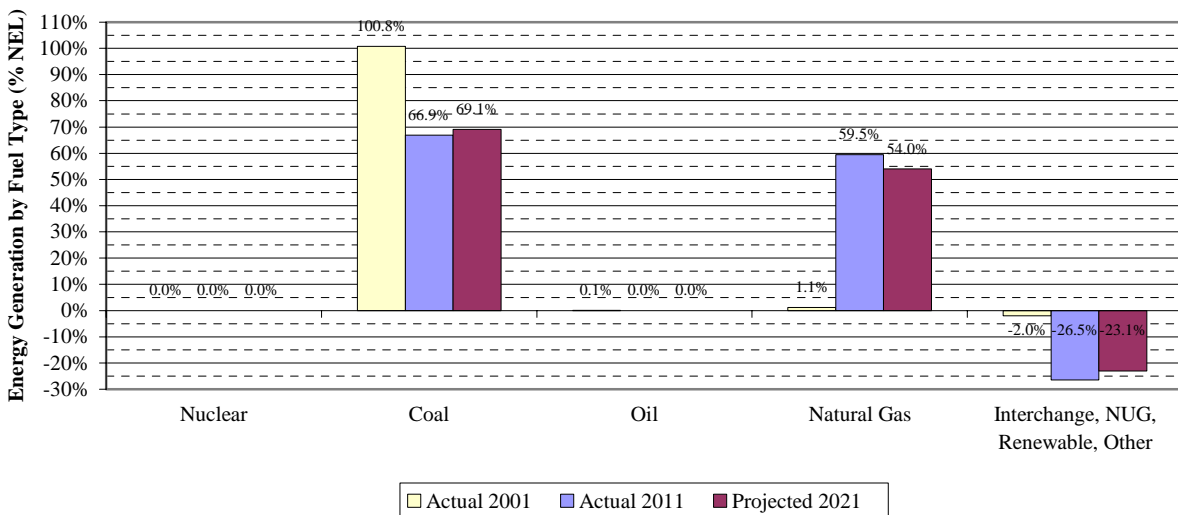
GULF Figure 4. Net Energy for Load by Fuel Type



Source: GULF 2002 and 2012 TYSPs

While usage of coal for generation is expected to increase, this does not take into account the potential impact of retirements due to new environmental compliance requirements. During the 2012 TYSP workshop, GULF’s Lansing Smith 1 and 2, both coal-fired units, were identified by the Sierra Club/Earthjustice as facing challenges if new emissions control equipment was required. If the projected generation from these coal units is displaced by natural gas, it would have the net effect of increasing natural gas’ share of GULF’s electric generation to 54 percent by 2021, while reducing the increase in coal generation to only 69.1 percent, as illustrated in GULF Figure 5 below.

GULF Figure 5. Net Energy for Load by Fuel Type with Displaced Generation



Source: GULF 2002 and 2012 TYSPs, Responses to Staff Data Requests

Generation Additions

GULF has no planned generation additions over the planning horizon. This is consistent with the company's 2011 TYSP, which also included no new generating units through 2020.

FLORIDA MUNICIPAL POWER AGENCY (FMPA)

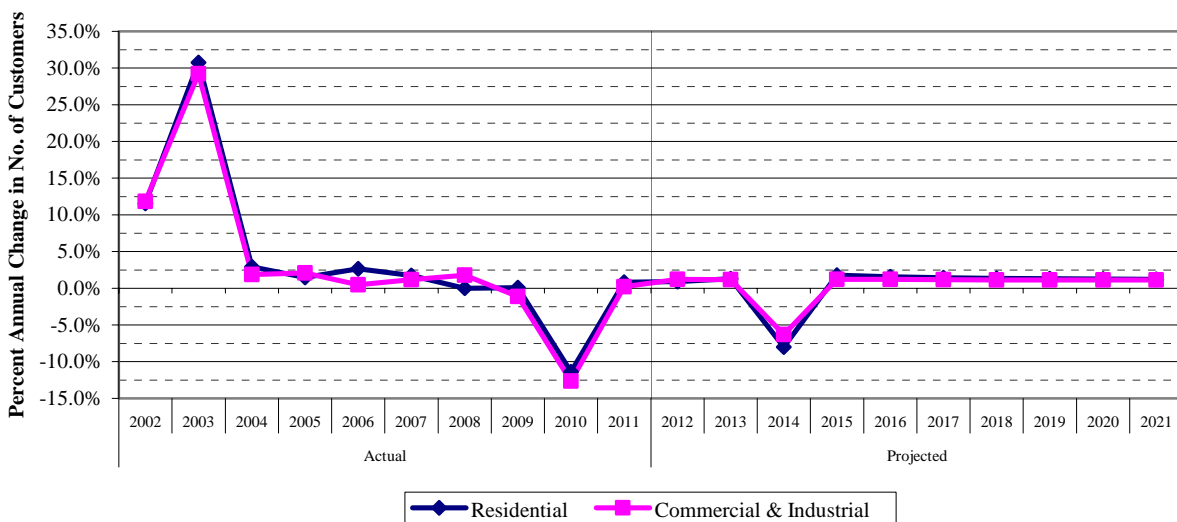
FMPA is a governmental wholesale power company owned by 30 municipal electric utilities located throughout the State of Florida. It is collectively the state’s eighth largest TYSP utility. FMPA facilitates opportunities for its members to participate in power supply projects developed by Florida utilities and other producers, and provides economies of scale in power generation and related services. As FMPA is a municipal utility, the Commission’s regulatory authority is limited to safety, rate structure, territorial boundaries, bulk power supply, operations, and planning. FMPA’s direct responsibility for power supply is with the All-Requirements Power Supply Project (ARP), where FMPA plans and supplies all of the power requirements for 14 of its participating utilities. The values for capacity in the following figures corresponds to the ARP.

In 2011, FMPA had an average of 262,659 customers, and had a total net energy for load of 6,209 GWh, approximately 2.6 percent of the NEL generated in the state last year.

Peak Demand and Energy Forecasts

FMPA Figure 1 illustrates the company’s actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth during for 2012 through 2021. The drop in the rate of growth for 2010 is due to the City of Vero Beach leaving the ARP, and the smaller drop in 2014 is the expected result of the departure of the City of Lake Worth from the ARP. These utilities will remain as members of FMPA, but are exercising an option to modify their memberships from a full requirements basis to a partial requirements basis. These changes in membership status means that the ARP will no longer utilize these participants’ generating resources, if any exist.

FMPA Figure 1. Annual Customer Growth Rate by Customer Class

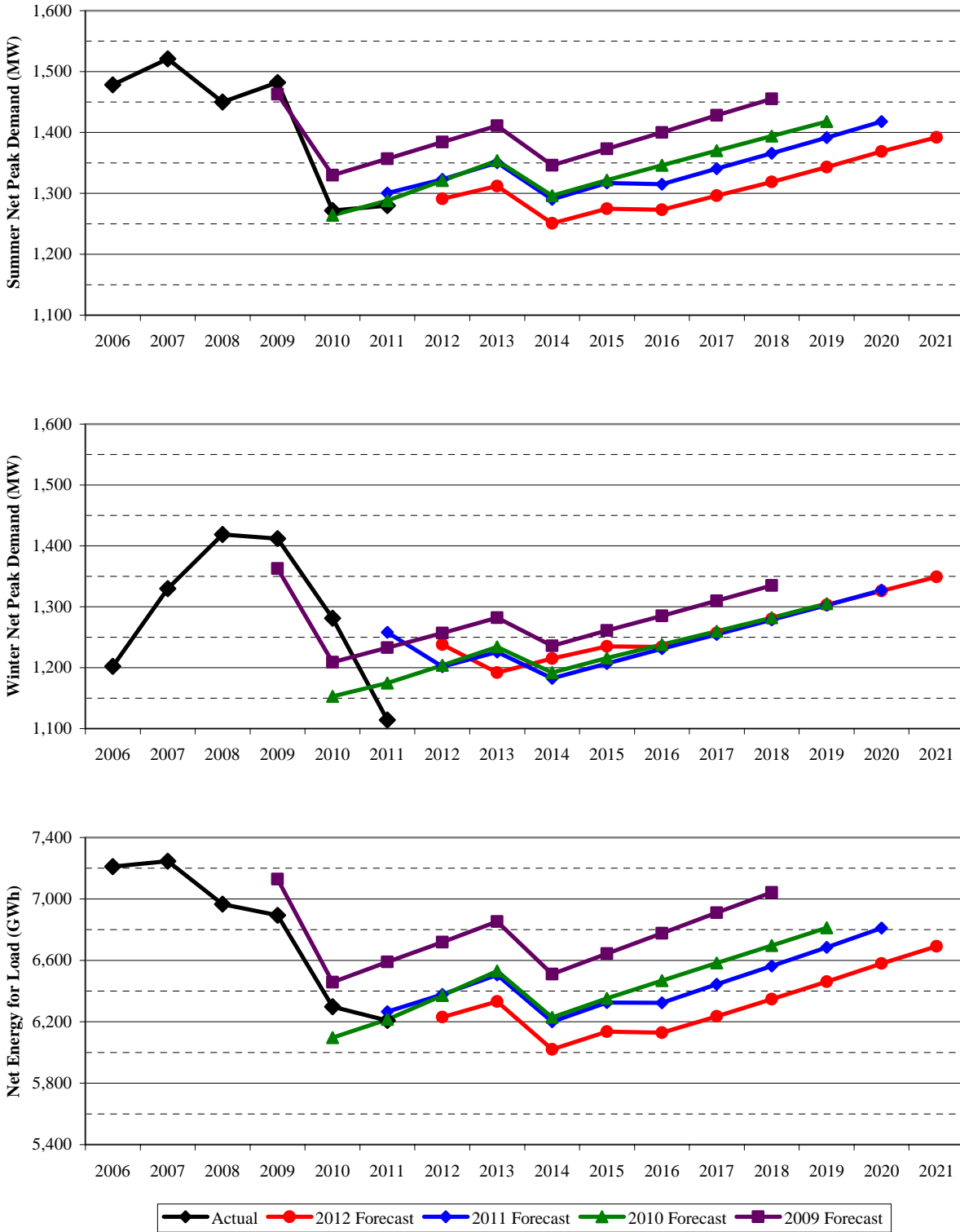


Source: FMPA 2012 TYSP

The following three graphs in FMPA Figure 2 show FMPA's historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current year and three previous forecast years. These figures show that the current forecast is below last year's in terms of summer peak demand and NEL, but winter peak demand is similar.

Analysis of FMPA's historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that FMPA's average forecast error is 11.81 percent. This value indicates that the company tends to over-forecast its retail energy sales by 11.81 percent, which is somewhat higher than the average forecast error for all eleven of the TYSP utilities, which was 11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

FMPA Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts

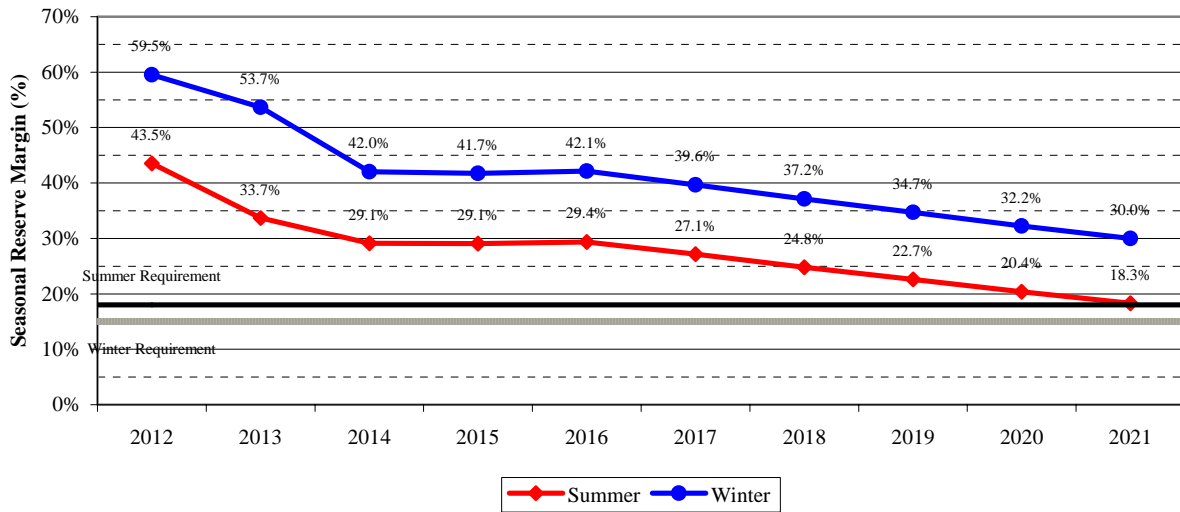


Source: FMPA 2009 - 2012 TYSPs

Reserve Margin Requirement

FMPA is required to maintain a minimum 15 percent reserve margin, pursuant to FRCC requirements. In addition, the utility uses a planning reserve margin of 18 percent for summer peak reserve margin planning. As can be seen in FMPA Figure 3 below, FMPA has ample reserves and its margin only begins to approach the 15 percent minimum in the last few years of the horizon. FMPA does not administer load management or interruptible load programs, and therefore has no non-firm load component in its reserve margin.

FMPA Figure 3. Seasonal Reserve Margin

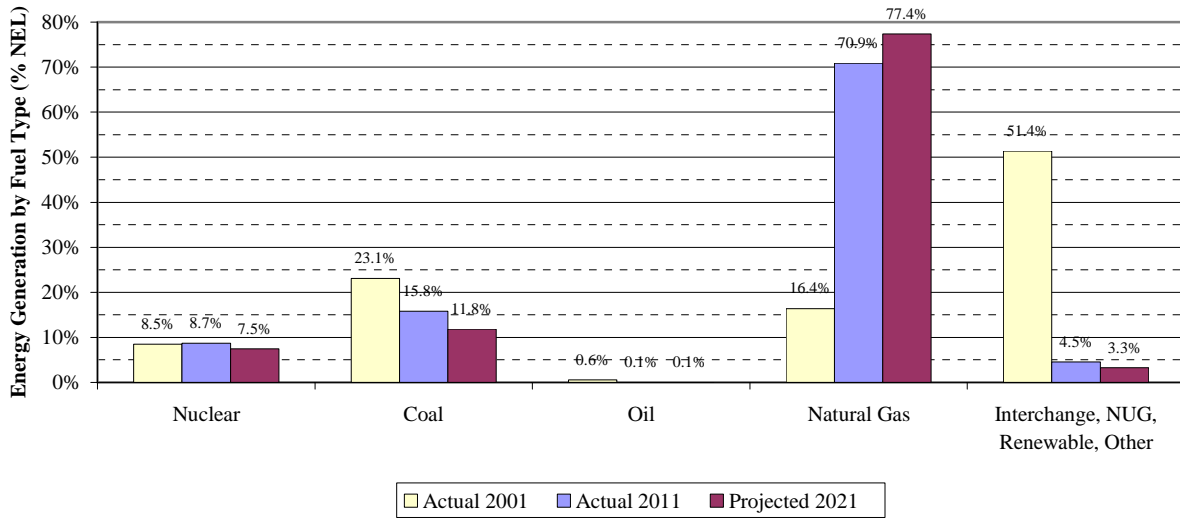


Source: FMPA 2012 TYSP

Fuel Diversity

FMPA Figure 4 displays the composition of FMPA's system in terms of energy generated. Again, natural gas has risen to become the system's primary fuel, increasing over 50 percent, from 16.4 percent in 2001 up to 70.9 percent in 2011. Natural gas is anticipated to increase somewhat to 77.4 percent in 2021, with further decreases in purchased power and coal generation.

FMPA Figure 4. Net Energy for Load by Fuel Type



Source: FMPA 2002 and 2012 TYSPs

Generation Additions

FMPA has no planned generation additions over the planning horizon. This is consistent with the company’s 2011 TYSP, which also included no new generating units through 2020.

GAINESVILLE REGIONAL UTILITIES (GRU)

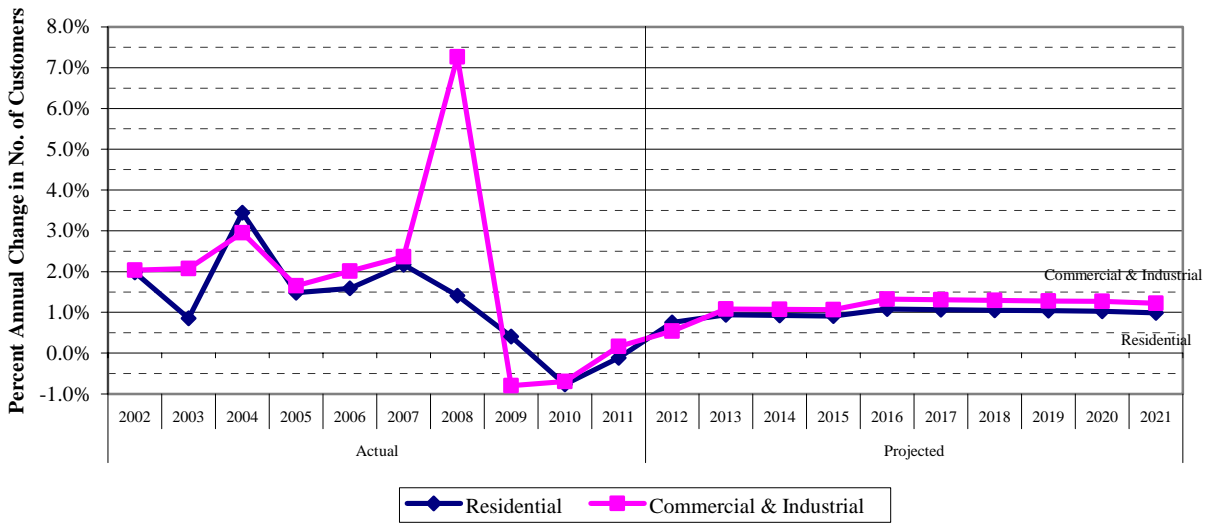
GRU is a municipal utility and the state’s smallest TYSP utility. The company’s service area is within the FRCC region, and includes the City of Gainesville and its surrounding urban area. GRU also provides wholesale power to the City of Alachua and Clay Electric Cooperative. As GRU is a municipal utility, the Commission’s regulatory authority is limited to safety, rate structure, territorial boundaries, bulk power supply, operations, and planning

In 2011, GRU had an average of 92,265 customers, and had a total net energy for load of 2,024 GWh, approximately 0.9 percent of the NEL generated in the state last year.

Peak Demand and Energy Forecasts

GRU Figure 1 illustrates the company’s actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth during for 2012 through 2021. GRU anticipates customer growth to remain steady through the end of the planning period, with an average annual growth rate of 1.03 percent. This compares with the actual rate of 1.94 percent for the period 2002 through 2007.

GRU Figure 1. Annual Customer Growth Rate by Customer Class



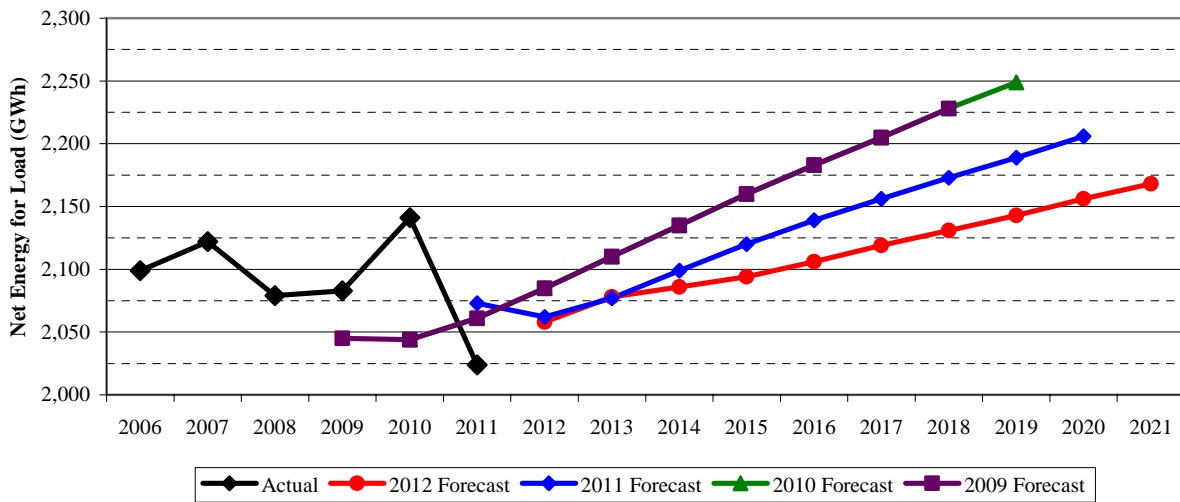
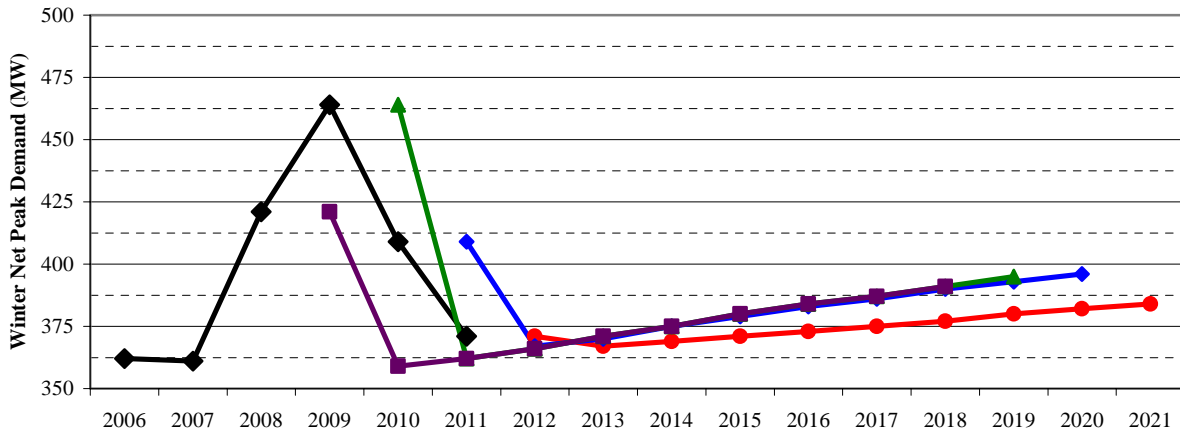
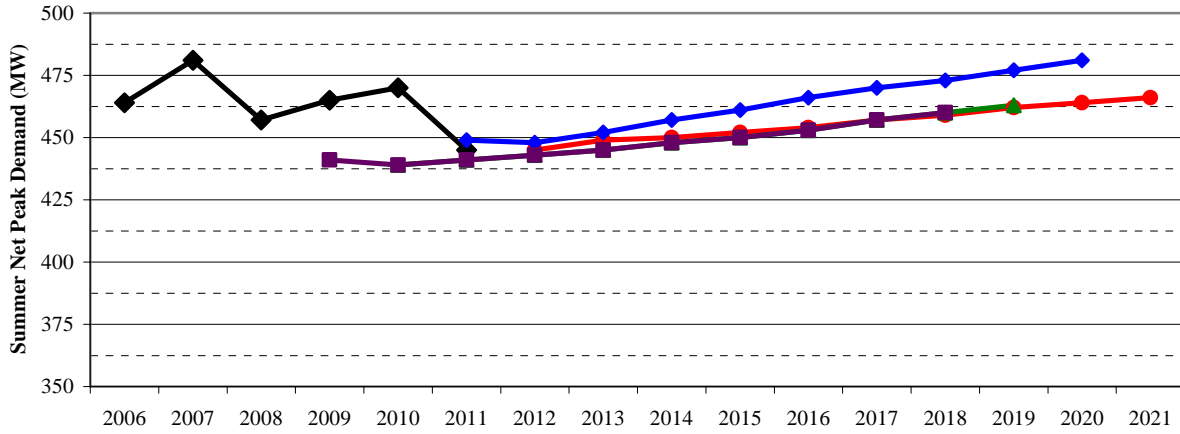
Source: GRU 2012 TYSP

The following three graphs in GRU Figure 2 show GRU’s historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current year and three previous forecast years. These figures show that the current forecast is below last year’s in both seasonal peak demand and NEL.

Analysis of GRU’s historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that GRU’s average forecast error is 11.40 percent. This value indicates

that the company tends to over-forecast its retail energy sales by 11.40 percent, which is approximately equivalent to the average forecast error for all eleven of the TYSP utilities, which was 11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

GRU Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts

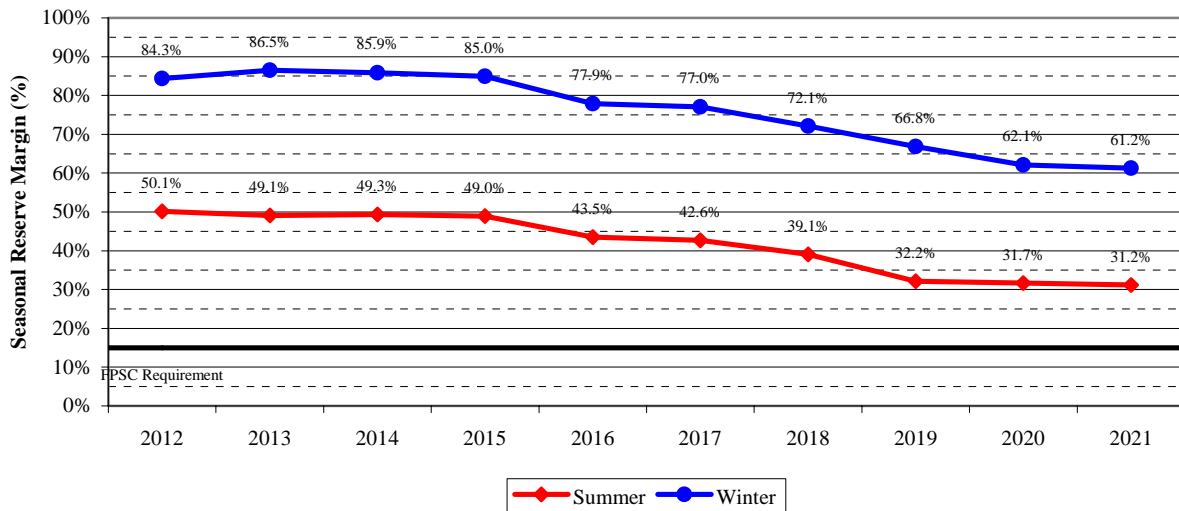


Source: GRU 2009 - 2012 TYSPs

Reserve Margin Requirement

Pursuant to FRCC requirements, GRU maintains a 15 percent reserve margin. As GRU Figure 3 clearly shows, GRU’s reserve margin is forecasted to remain well above the minimum level throughout the planning horizon for the summer and winter peak seasons. GRU does not have any active load management or interruptible load programs and therefore has no non-firm load component to its reserve margin.

GRU Figure 3. Seasonal Reserve Margin

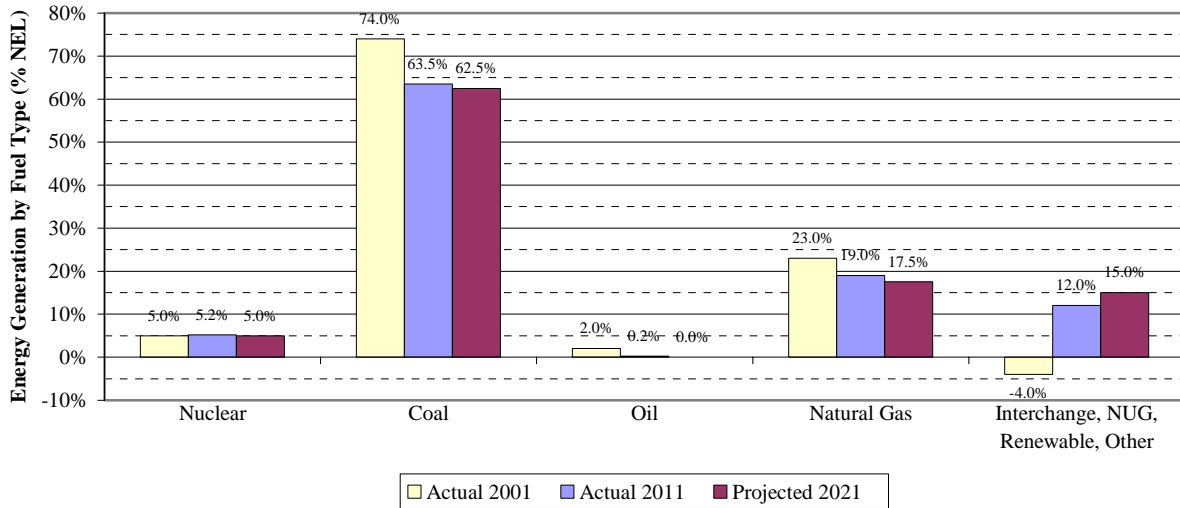


Source: GRU 2012 TYSP

Fuel Diversity

GRU Figure 4 displays the composition of GRU’s system in terms of energy generated. The company has historically relied upon coal generation, and it is projected to produce a majority of energy for load through the end of the planning period. Other energy sources include natural gas, nuclear, purchased power, and renewables. GRU anticipates a decline in both coal-fired and natural gas-fired generation, made up for by renewable purchased power contracts, especially a large biomass unit that the Commission authorized recently.

GRU Figure 4. Net Energy for Load by Fuel Type



Source: GRU 2012 TYSP

Generation Additions

GRU has no planned generation additions over the planning horizon. This is consistent with the company’s 2011 TYSP, which also included no new generating units through 2020.

JEA (FORMERLY JACKSONVILLE ELECTRIC AUTHORITY)

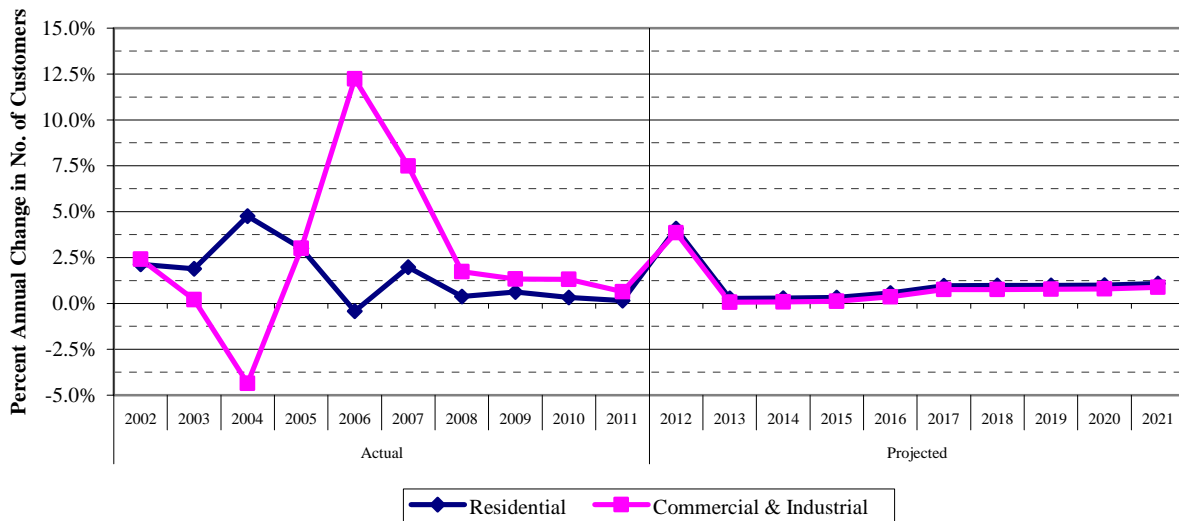
JEA is a municipal electric utility, and the state’s fifth largest TYSP utility, and is the largest generating municipal utility. JEA’s service territory is within the FRCC region, and includes all of Duval County as well as portions of Clay and St. Johns Counties. As JEA is a municipal utility, the Commission’s regulatory authority is limited to safety, rate structure, territorial boundaries, bulk power supply, operations, and planning

In 2011, JEA had an average of 416,278 customers, and had a total net energy for load of 12,980 GWh, approximately 5.5 percent of the NEL generated in the state last year.

Peak Demand and Energy Forecasts

JEA Figure 1 illustrates the company’s actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth for 2012 through 2021. Positive growth is anticipated over the entire planning period, with an average annual growth rate of 0.69 percent. This compares with the actual rate of 2.36 percent for the period 2002 through 2007.

JEA Figure 1. Annual Customer Growth Rate by Customer Class



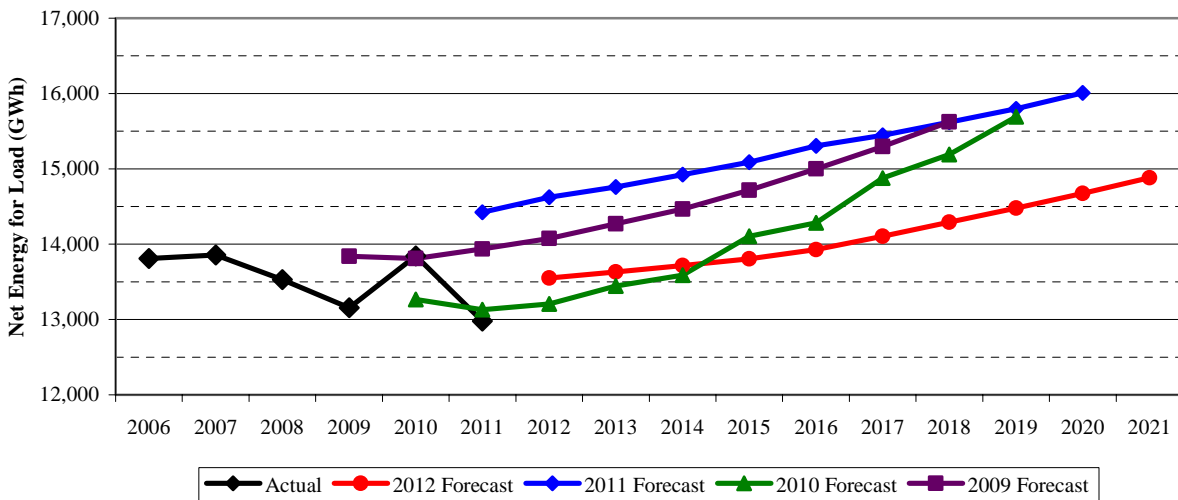
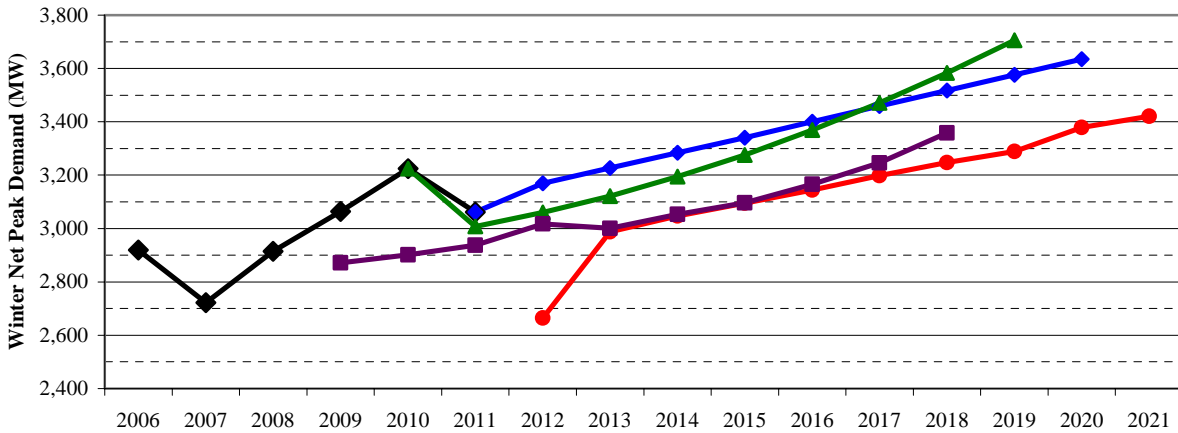
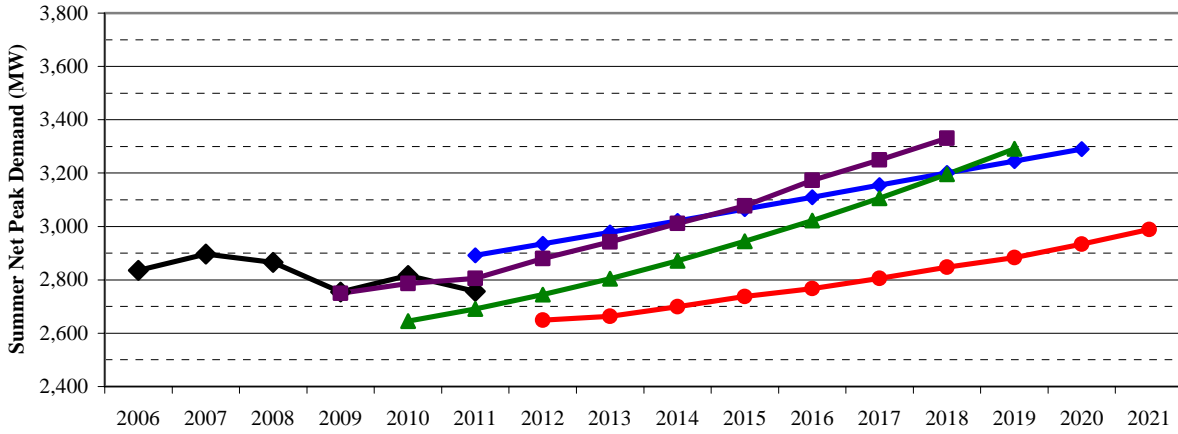
Source: JEA 2012 TYSP

The following three graphs in JEA Figure 2 show JEA’s historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current year and three previous forecast years. These figures show that the current forecast is below last year’s in both seasonal peak demand and NEL.

Analysis of JEA’s historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that JEA’s average forecast error is 12.72 percent. This value indicates that the company tends to over-forecast its retail energy sales by 12.72 percent, which is unfavorable

when compared to the average forecast error for all eleven of the TYSP utilities, which was 11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

JEA Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts



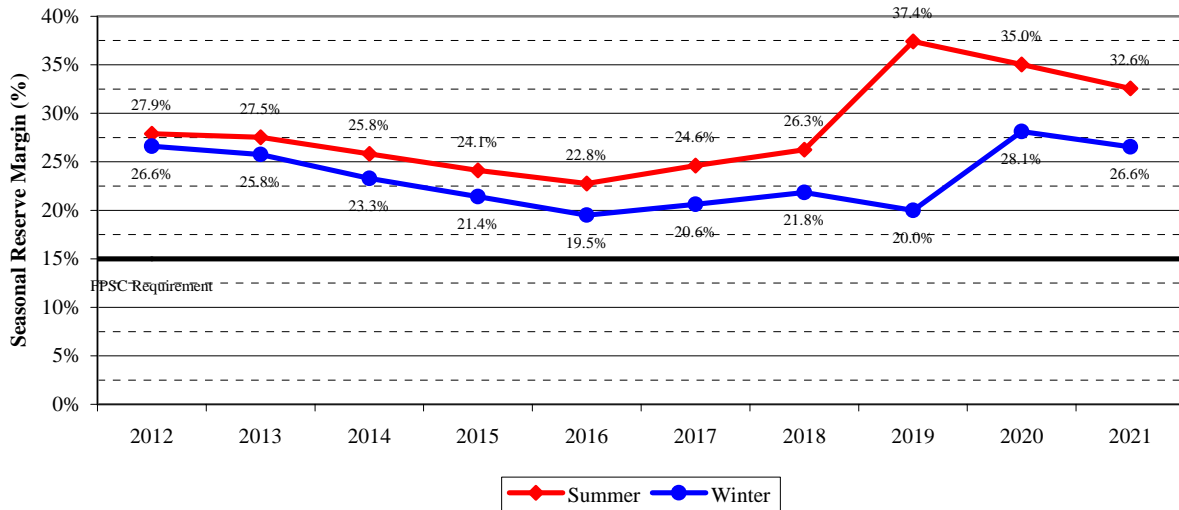
Actual
 2012 Forecast
 2011 Forecast
 2010 Forecast
 2009 Forecast

Source: JEA 2009 - 2012 TYSPs

Reserve Margin Requirement

JEA maintains a 15 percent reserve margin pursuant to FRCC requirements. JEA Figure 3 shows their projected reserve margin, which is sufficient for both summer and winter seasonal peaks.

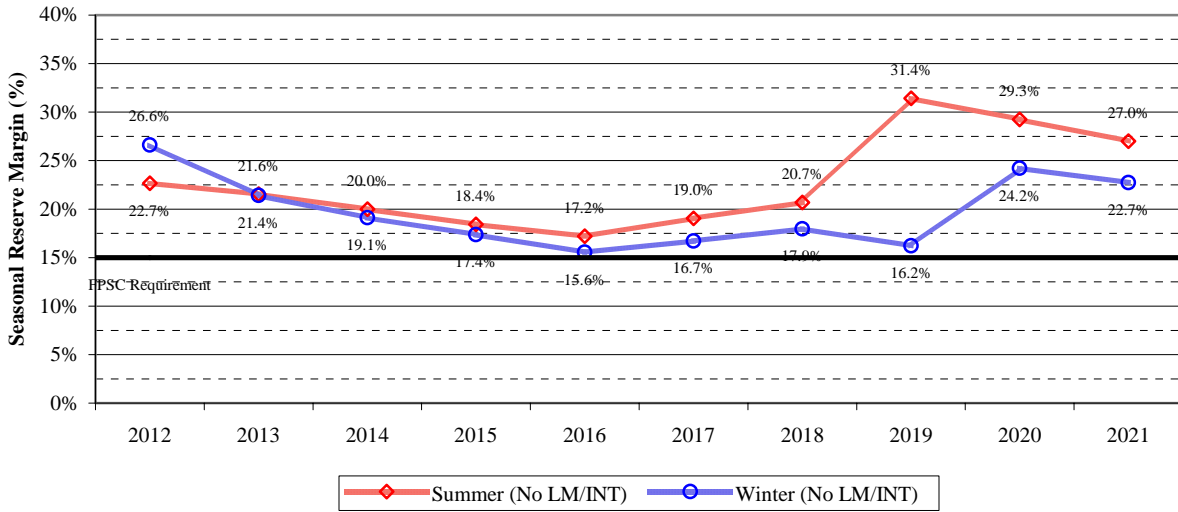
JEA Figure 3. Seasonal Reserve Margin (With LM/INT)



Source: JEA 2012 TYSP

Because JEA does have active load management and interruptible load programs in place, a portion of its reserve margin can be attributed to non-firm load. The measure of reserve margin without any contribution from demand-side programs is shown in JEA Figure 4. JEA's reserve margin exceeds its planning requirement for both summer and winter peak demand throughout the ten year horizon without activating demand response programs.

JEA Figure 4. Seasonal Reserve Margin (Without LM/INT)

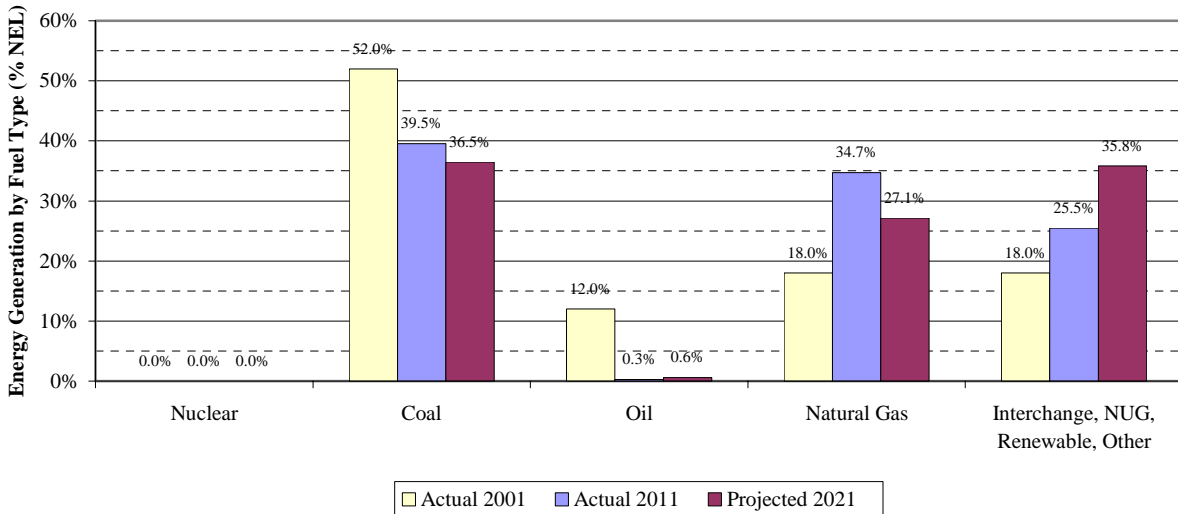


Source: JEA 2012 TYSP

Fuel Diversity

JEA Figure 5 displays the composition of JEA’s system in terms of energy generated. Coal, natural gas, and purchased power are the primary sources, with coal overall declining since 2001 while natural gas and purchased power have increased by 2011. Coal is expected to further decline, along with natural gas, in favor of purchased power by 2021.

JEA Figure 5. Net Energy for Load by Fuel Type



Source: JEA 2002 and 2012 TYSPs

Generation Additions

JEA has no planned generation additions over the planning horizon. This is consistent with the company's 2011 TYSP, which also included no new generating units through 2020.

LAKELAND ELECTRIC (LAK)

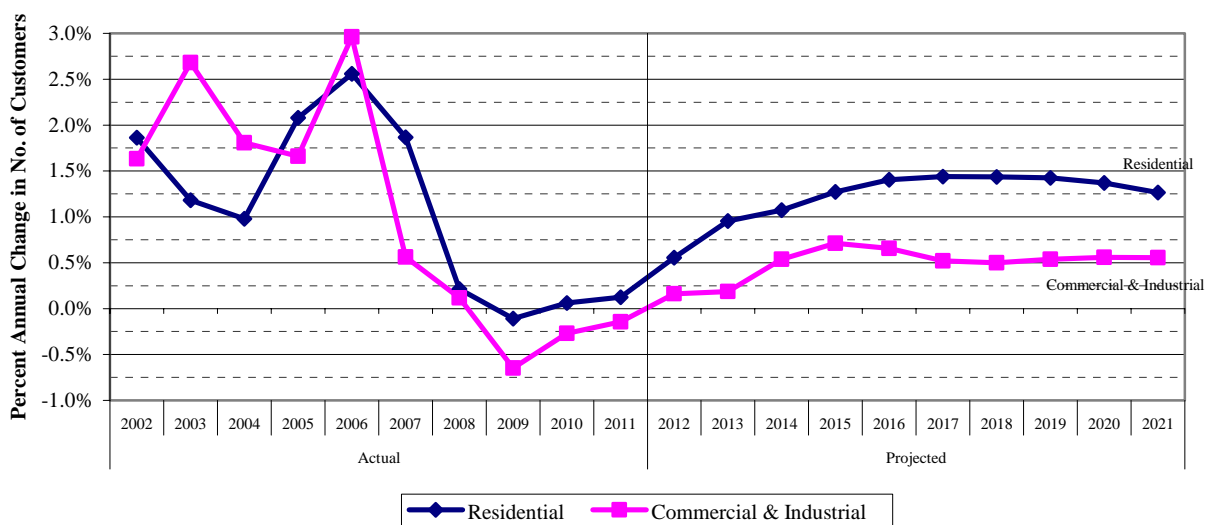
LAK is the municipal utility, and is the state’s ninth largest TYSP utility. LAK is owned and operated by the City of Lakeland. LAK is a member of the Florida Municipal Power Pool (FMPP), along with OUC and FMPPA’s All-Requirements Project (ARP). The FMPP operates as an hourly energy pool with all FMPP capacity from its members committed and dispatched together. Each member of the FMPP retains the responsibility of adequately planning its own system to meet native load and FRCC reserve requirements. As LAK is a municipal utility, the Commission’s regulatory authority is limited to safety, rate structure, territorial boundaries, bulk power supply, operations, and planning

In 2011, LAK had an average of 121,763 customers, and had a total net energy for load of 2,893 GWh, approximately 1.2 percent of the NEL generated in the state last year.

Peak Demand and Energy Forecasts

LAK Figure 1 illustrates the company’s actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth during for 2012 through 2021. Customer growth is anticipated to increase slowly throughout the planning period, with an average annual growth rate of 1.21 percent. This compares with the actual rate of 1.75 percent for the period 2002 through 2007.

LAK Figure 1. Annual Customer Growth Rate by Customer Class



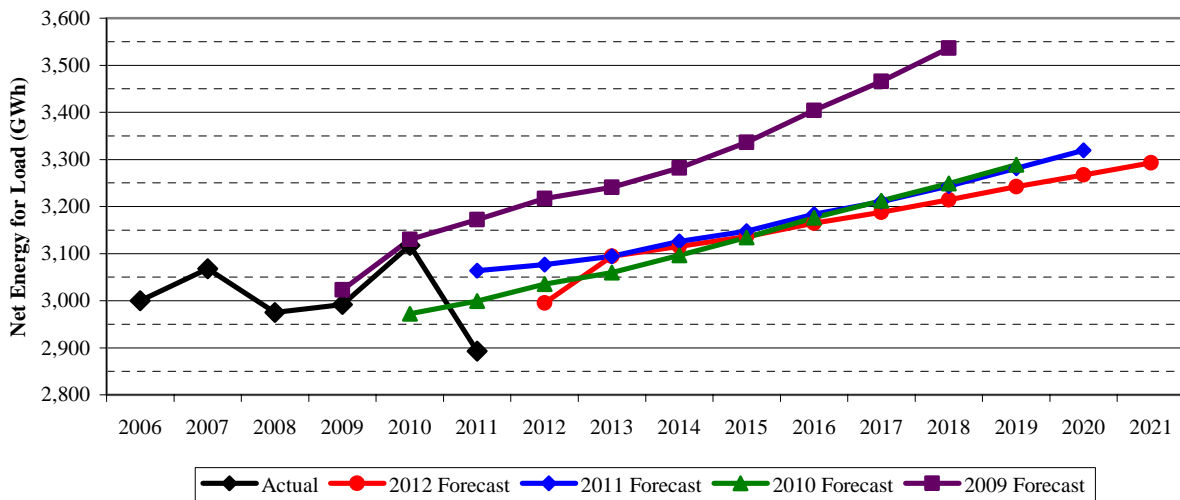
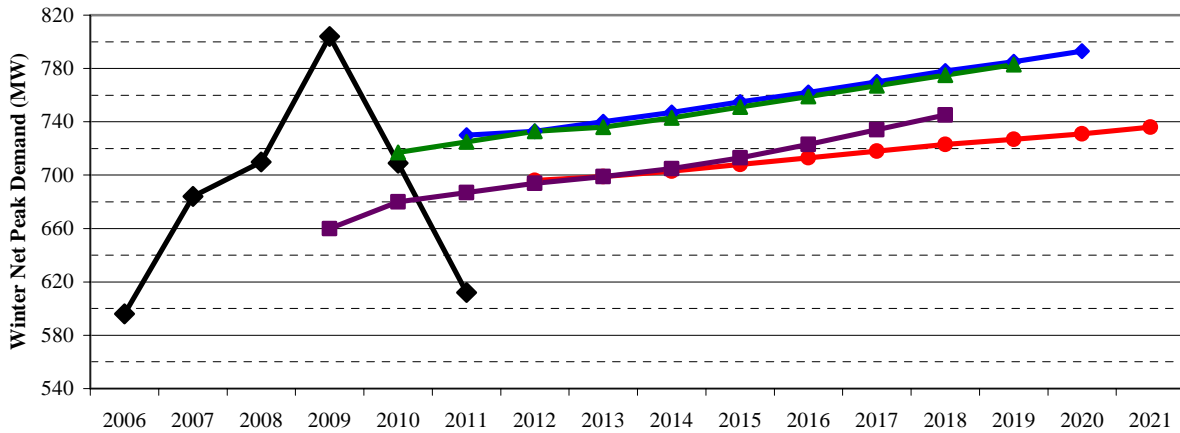
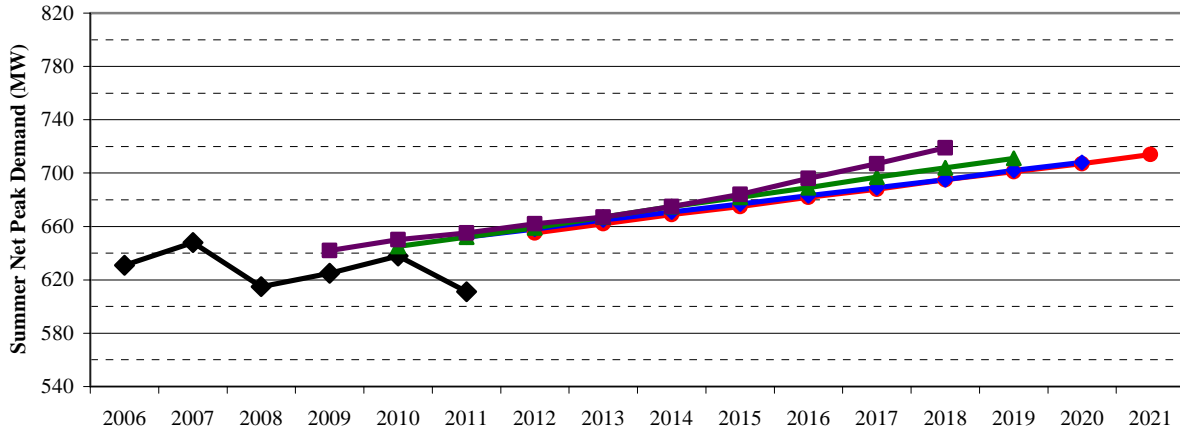
Source: LAK 2012 TYSP

The following three graphs in LAK Figure 2 show LAK’s historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current

year and three previous forecast years. These figures show that the current forecast is equivalent to last year's for summer peak demand and NEL, but notably below for winter peak demand.

Analysis of LAK's historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that LAK's average forecast error is 7.89 percent. This value indicates that the company tends to over-forecast its retail energy sales by 7.89 percent, which is favorable when compared to the average forecast error for all eleven of the TYSP utilities, which was 11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

LAK Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts



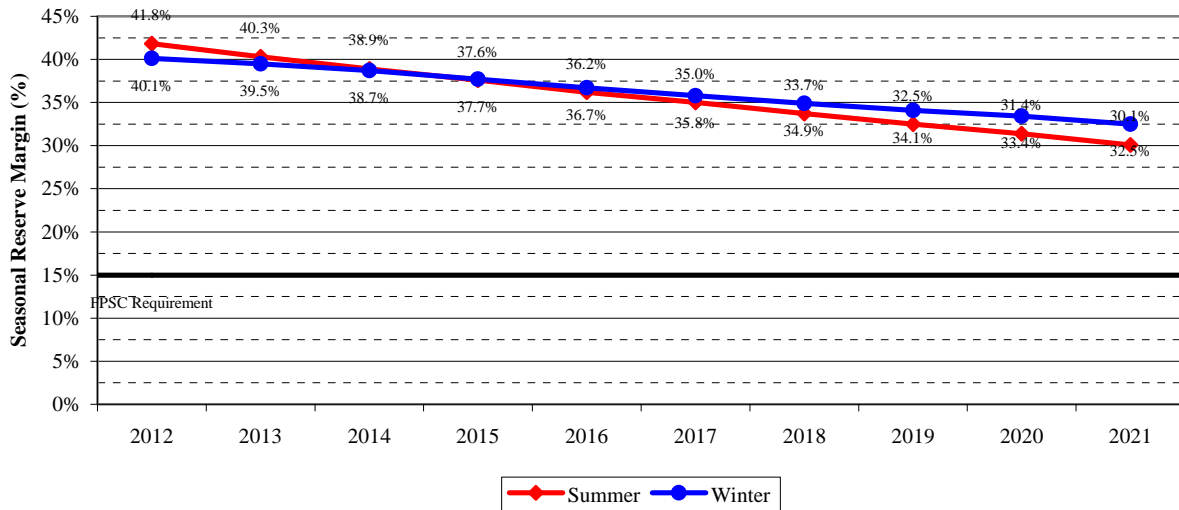
Actual
 2012 Forecast
 2011 Forecast
 2010 Forecast
 2009 Forecast

Source: LAK 2009 - 2012 TYSPs

Reserve Margin Requirement

As an FRCC utility, LAK maintains a 15 percent minimum reserve margin. As LAK Figure 3 shows, although LAK’s reserve margin decreases steadily over the planning horizon, it remains well above the minimum level of 15 percent.

LAK Figure 3. Seasonal Reserve Margin

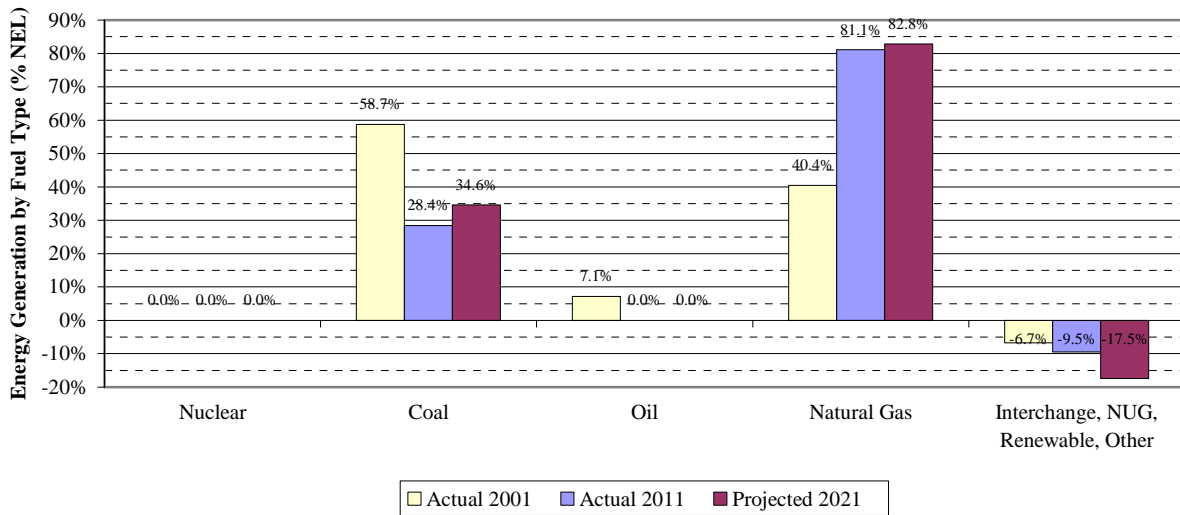


Source: LAK 2012 TYSP

Fuel Diversity

LAK Figure 4 displays the composition of LAK’s system in terms of energy generated. Natural gas has increased its share of the company’s energy from 40.4 percent in 2001 to 81.1 percent in 2011. While coal and oil made a significant portion of generation historically, oil usage has been drastically reduced, and coal’s portion of generation has declined to approximately a third of system energy. LAK also makes significant energy sales, which cause its total energy produced to exceed 100 percent of its native load.

LAK Figure 4. Net Energy for Load by Fuel Type



Source: LAK 2012 TYSP

Generation Additions

LAK has no planned generation additions over the planning horizon. This is consistent with the company's 2011 TYSP, which also included no new generating units through 2020.

ORLANDO UTILITIES COMMISSION (OUC)

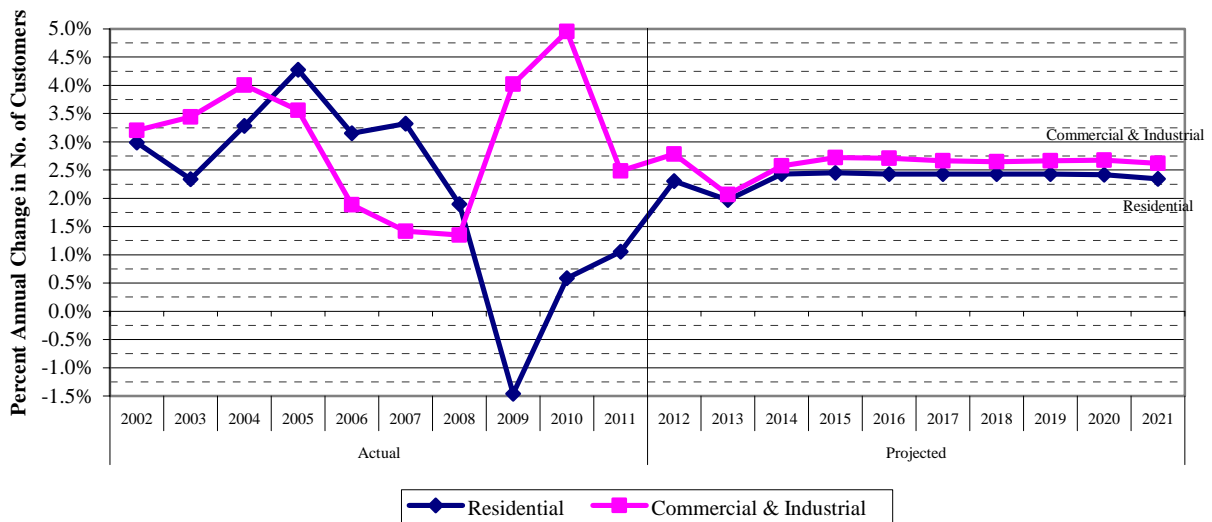
OUC is a municipal utility, and the state’s seventh largest TYSP utility. The utility’s service territory is within the FRCC region, and serves the Orlando metropolitan area. OUC is a member of the FMPP, along with LAK and FMPA’s All-Requirements Project (ARP). As OUC is a municipal utility, the Commission’s regulatory authority is limited to safety, rate structure, territorial boundaries, bulk power supply, operations, and planning.

In 2011, OUC had an average 209,638 customers, and had a total net energy for load of 6,977 GWh, approximately 2.9 percent of the NEL generated in the state last year.

Peak Demand and Energy Forecasts

OUC Figure 1 illustrates the company’s actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth for 2012 through 2021. Overall, OUC projected a steady growth throughout the planning period, with an average annual growth rate of 2.40 percent through 2021. This compares with the actual rate of 3.22 percent for the period 2002 through 2007.

OUC Figure 1. Annual Customer Growth Rate by Customer Class



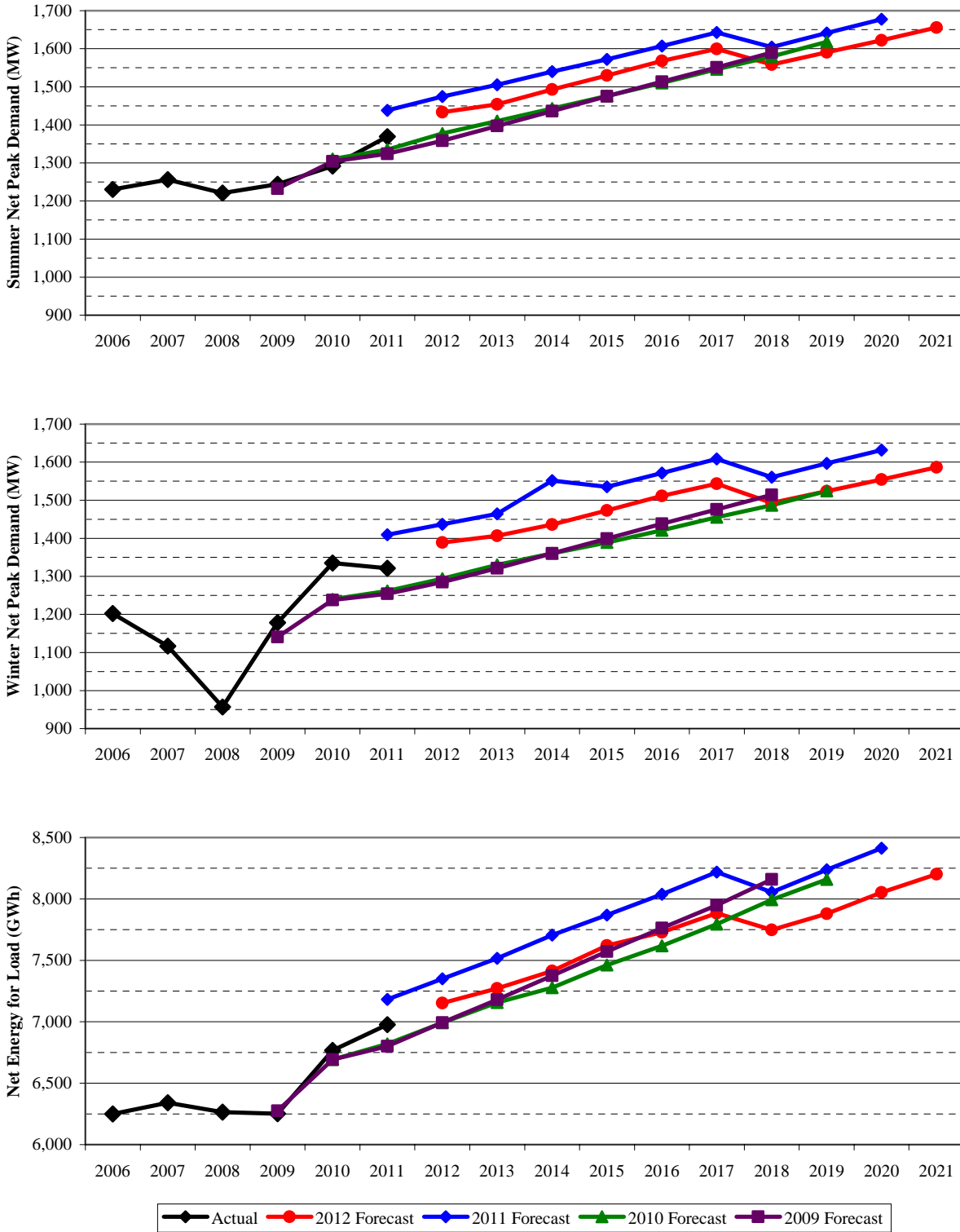
Source: OUC 2012 TYSP

The following three graphs in OUC Figure 2 show OUC’s historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current year and three previous forecast years. These figures show that the current forecast is below last year’s for both seasonal peaks and NEL.

Analysis of OUC’s historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that OUC’s average forecast error is 5.83 percent, the second lowest error

rate in 2012. This value indicates that the company tends to over-forecast its retail energy sales by 5.83 percent, which is favorable when compared to the average forecast error for all eleven of the TYSP utilities, which was 11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

OUC Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts

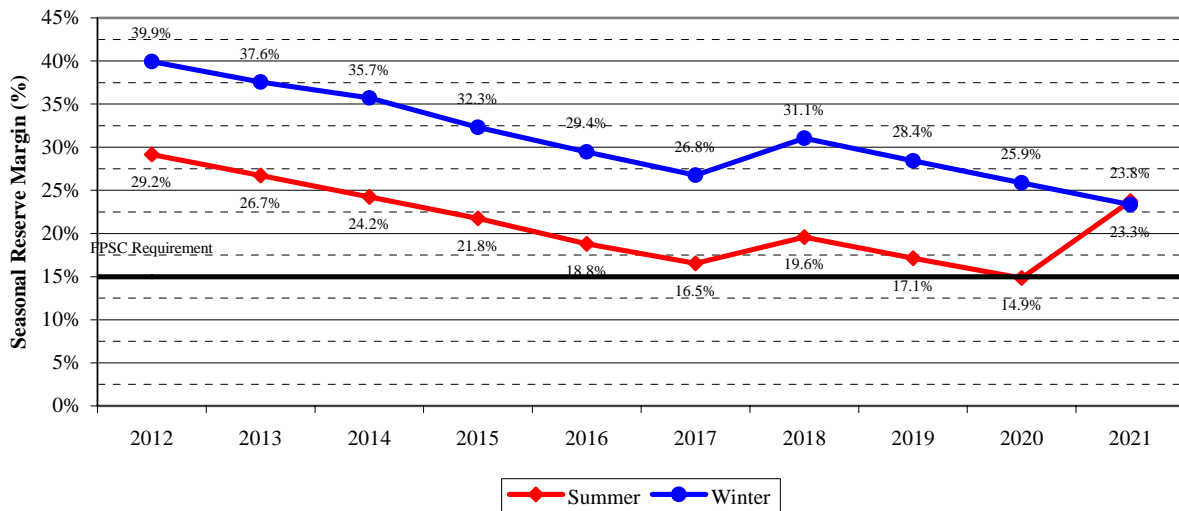


Source: OUC 2009 - 2012 TYSPs

Reserve Margin Requirement

OUC maintains a 15 percent reserve margin pursuant to FRCC requirements. OUC Figure 3 shows their projected reserve margin, which is sufficient for both summer and winter seasonal peaks. OUC does not have active load management and interruptible load programs as part of its DSM program, and therefore has no energy efficiency component included in its reserve margin.

OUC Figure 3. Seasonal Reserve Margin

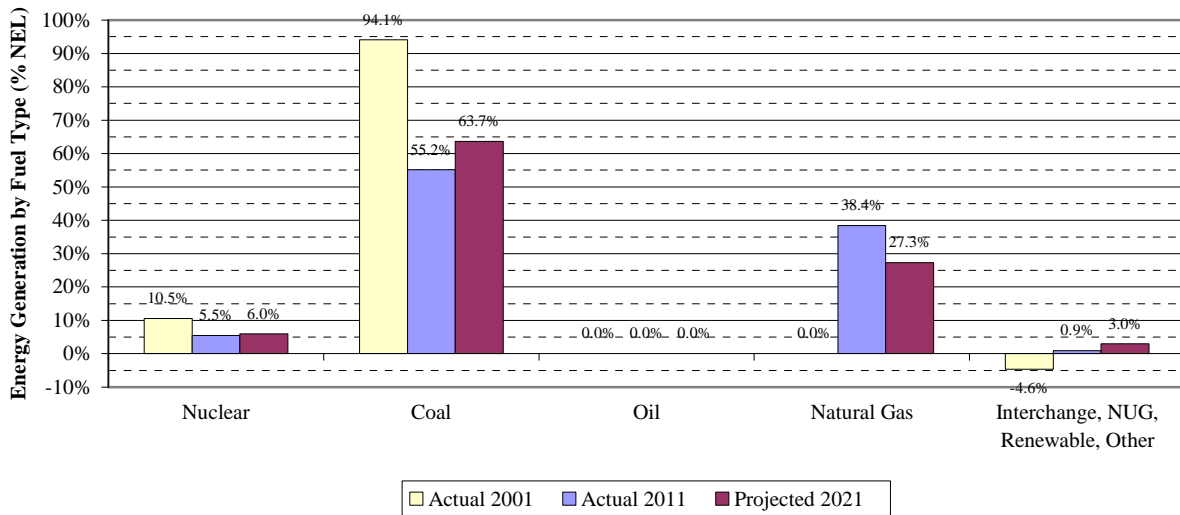


Source: OUC 2012 TYSP

Fuel Diversity

OUC Figure 4 displays the composition of OUC's system in terms of energy generated. As seen in the figure, OUC is historically a coal dependent utility, and as of 2001 did not use natural gas for generation, and was a net exporter of energy. However, by 2011, natural gas had assumed a significant role in OUC's system, with 38.4 percent of generation, as compared to 55.2 percent for coal. The utility's projected fuel mix shows an increase in coal over the planning period, which would result in a reduction of natural gas from its current level.

OUC Figure 4. Net Energy for Load by Fuel Type



Source: OUC 2002 and 2012 TYSPs

Generation Additions

OUC’s 2012 TYSP includes a single new generating unit, an sited 185 MW natural gas-fired combustion turbine with an in-service date in 2021, as detailed in OUC Table 1 below.

OUC Table 1. Planned Generation Additions

| Generating Unit Name | Summer Capacity (MW) | Certification Dates (if Applicable) | | In-Service Date |
|--|----------------------|-------------------------------------|----------------|-----------------|
| | | Need Approved (Commission) | PPSA Certified | |
| Combustion Turbine Unit Additions | | | | |
| Unknown CT1 | 185 | N/A | N/A | 05/2021 |

Source: OUC 2012 TYSP

SEMINOLE ELECTRIC COOPERATIVE, INC. (SEC)

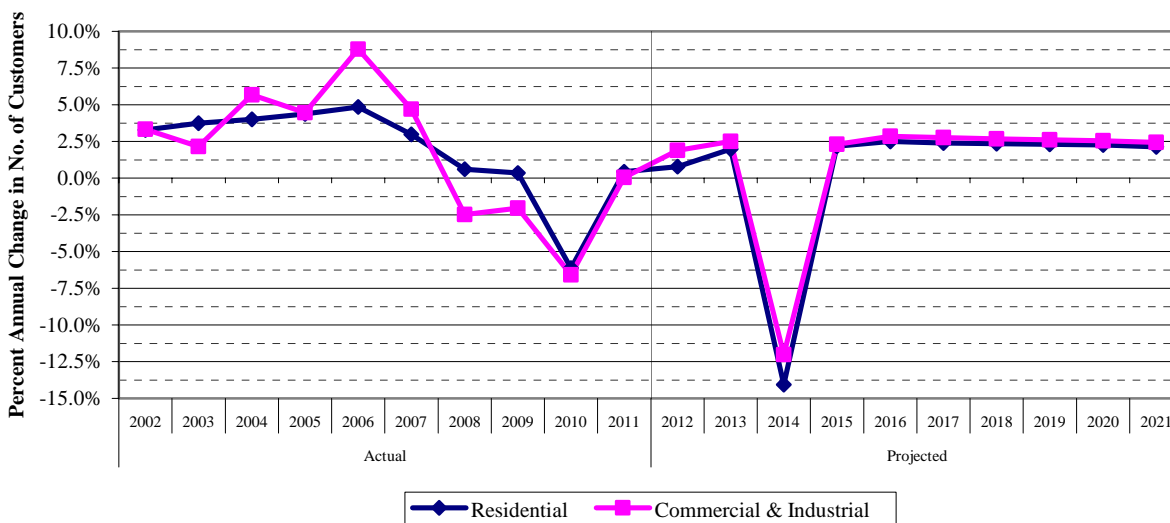
SEC is a corporation that provides electric power to its distribution members' systems, and is collectively the state's fourth largest TYSP utility. SEC is a generation and transmission rural electric cooperative that serves only wholesale customers that purchase power from SEC under long-term wholesale power contracts. SEC is within the FRCC Region, with load serviced throughout the State of Florida. Its generation assets are primarily within the central region. As SEC is a rural electric cooperative, the Commission's regulatory authority is limited to safety, rate structure, territorial boundaries, bulk power supply, operations, and planning

In 2011, SEC had an average 849,059 customers, and had a total net energy for load of 16,037 GWh, approximately 6.7 percent of the NEL generated in the state last year.

Peak Demand and Energy Forecasts

SEC Figure 1 illustrates the company's actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth for 2012 through 2021. Generally the utility expects level growth throughout the planning period, with the exception of 2014. As SEC is composed of multiple members, the overall growth of the utility is heavily impacted by their departure. The projected drop in customers in 2014 is due to the Lee County Electric Cooperative load no longer being served by SEC beginning January 1, 2014.

SEC Figure 1. Annual Customer Growth Rate by Customer Class



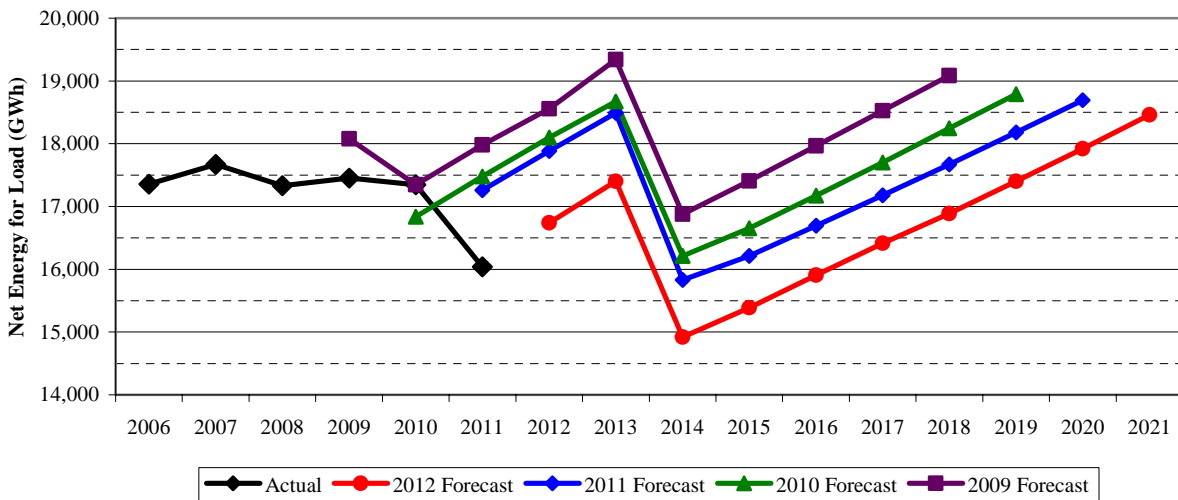
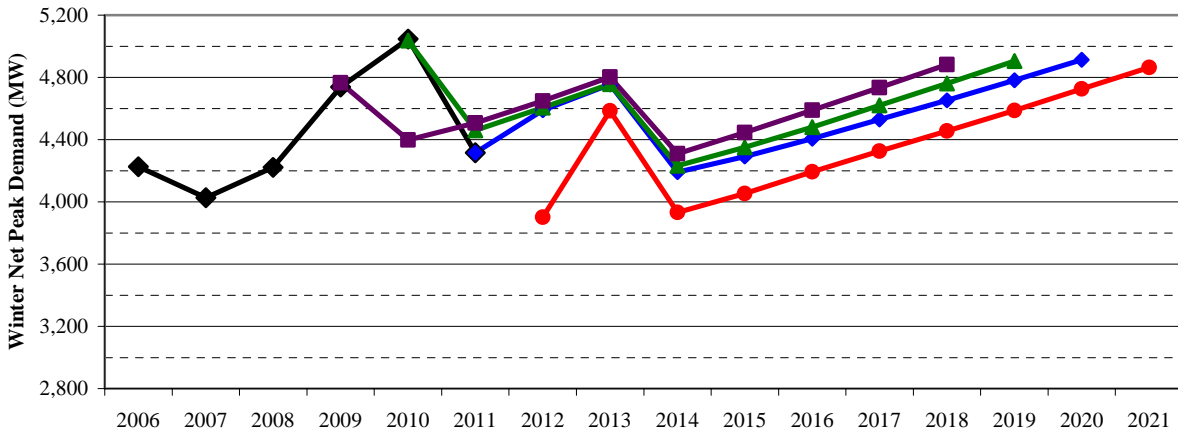
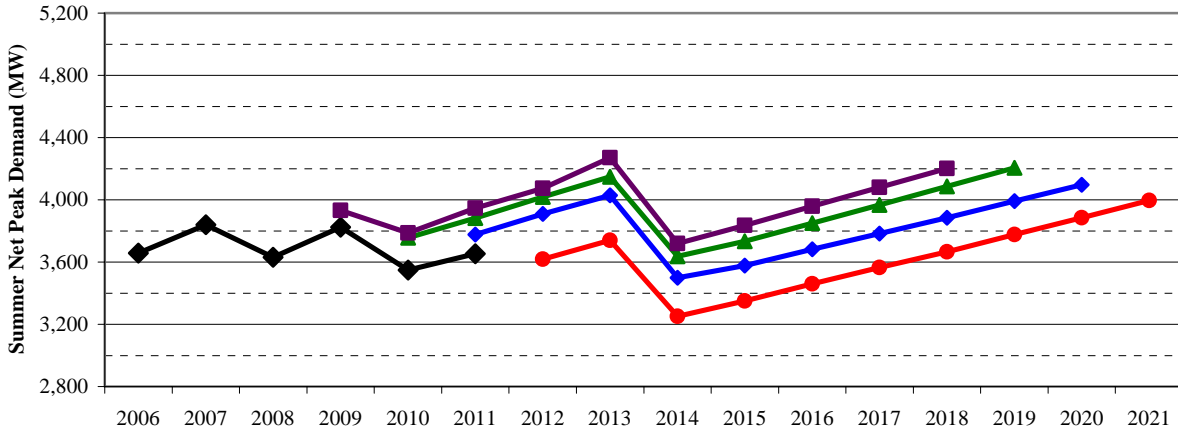
Source: SEC 2012 TYSP

The following three graphs in SEC Figure 2 show SEC's historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current year and three previous forecast years. These figures show that the current forecast is below last

year's for both seasonal peaks and NEL. The forecasts show a significant drop in 2014, associated with the reduction in customers discussed above.

Analysis of SEC's historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that SEC's average forecast error is 11.41 percent. This value indicates that the company tends to over-forecast its retail energy sales by 11.41 percent, which is approximately equivalent to the average forecast error for all eleven of the TYSP utilities, which was 11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

SEC Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts

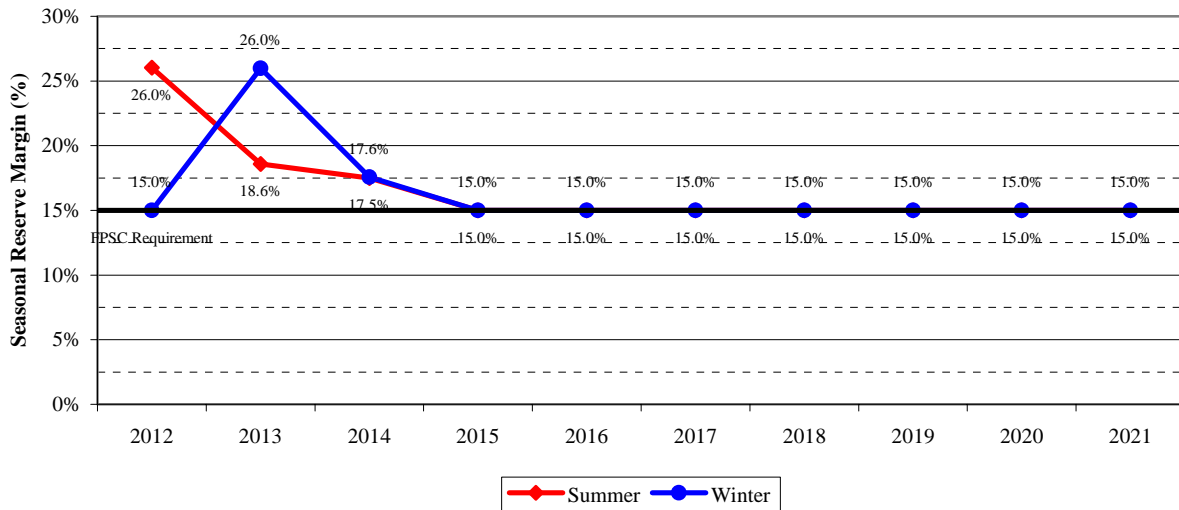


Source: SEC 2009 - 2012 TYSPs

Reserve Margin Requirement

As SEC is within the FRCC region, it is required to meet a 15 percent reserve margin requirement. SEC projects its reserve margin to remain at or above this requirement for both summer and winter seasonal peaks, as shown in SEC Figure 3.

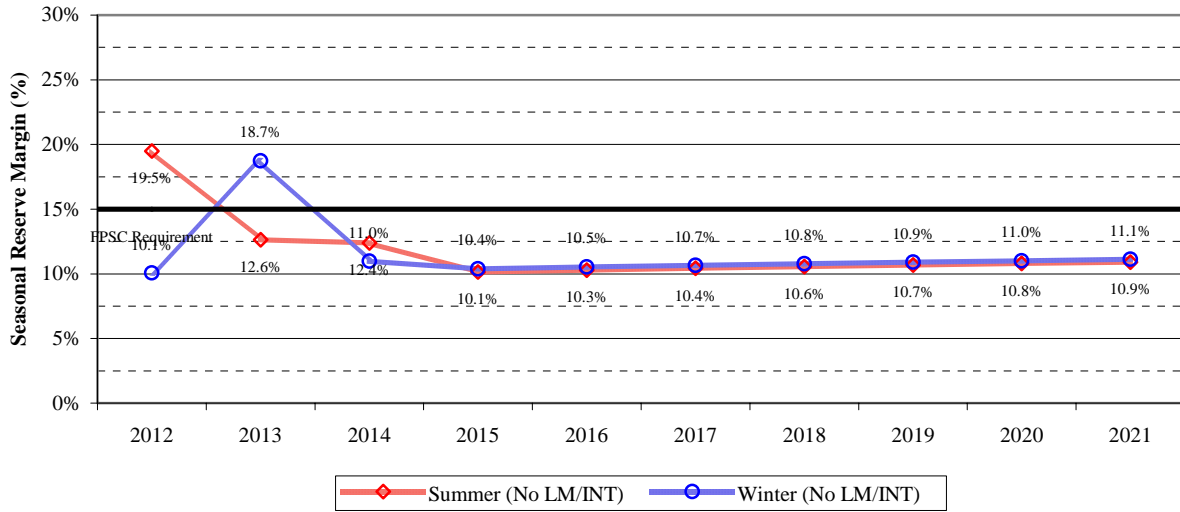
SEC Figure 3. Seasonal Reserve Margin (With LM/INT)



Source: SEC 2012 TYSP

Because SEC does offer load management programs, a portion of its reserve margin can be attributed to non-firm load. The measure of reserve margin without any contribution from demand-side programs is shown in SEC Figure 4. As the figure shows, SEC's reserve margin is projected to remain at approximately 10 percent without activating demand response programs.

SEC Figure 4. Seasonal Reserve Margin (Without LM/INT)

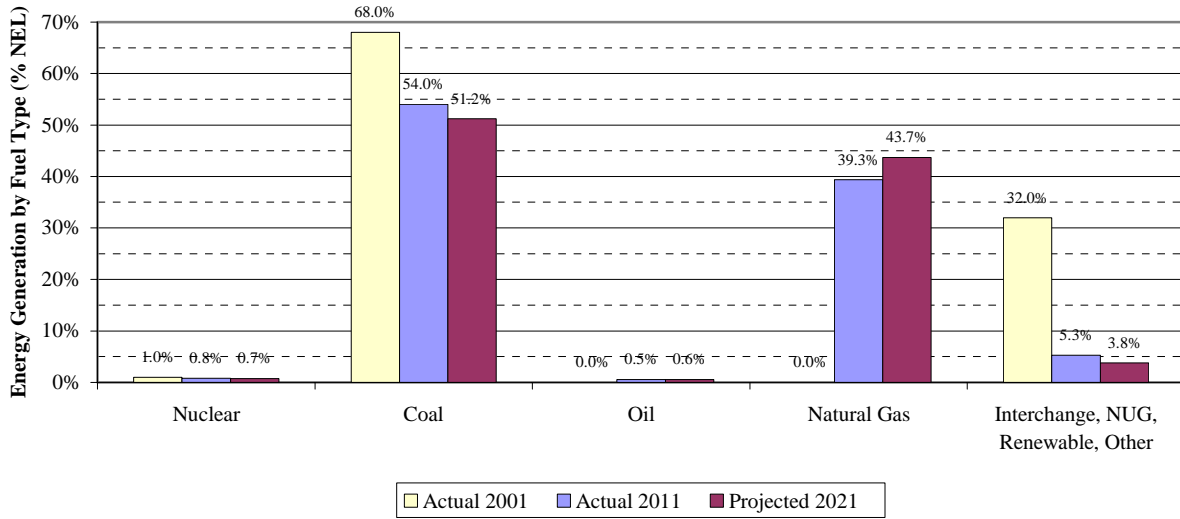


Source: SEC 2012 TYSP

Fuel Diversity

SEC Figure 5 displays the composition of SEC’s system in terms of energy generated. As the figure shows, SEC is historically a coal dependent utility, though this portion has decreased from 68 percent in 2001 to 54 percent in 2011. SEC did not have any generation from natural gas in 2001, but now a significant portion of its generation comes from natural gas units. While purchased power made up a significant portion of system reserves, this has decreased dramatically, from 32 percent to 5.3 percent last year. Generally, SEC’s projected fuel mix is unchanged, except for a slight shift from coal and purchased power towards natural gas generation.

SEC Figure 5. Net Energy for Load by Fuel Type



Source: SEC 2002 and 2012 TYSPs

Generation Additions

SEC’s 2012 TYSP includes the addition of nine natural gas combustion turbine units, and three combined cycle units by the end of the planning period. SEC Table 1 details the generation additions below.

SEC Table 1. Planned Generation Additions

| Generating Unit Name | Summer Capacity (MW) | Certification Dates (if Applicable) | | In-Service Date |
|--|----------------------|-------------------------------------|----------------|-----------------|
| | | Need Approved (Commission) | PPSA Certified | |
| Combustion Turbine Unit Additions | | | | |
| Unnamed CT1 | 158 | N/A | N/A | 12/2018 |
| Unnamed CT2 | 158 | N/A | N/A | 12/2019 |
| Unnamed CT3 | 158 | N/A | N/A | 12/2020 |
| Unnamed CT4 | 158 | N/A | N/A | 12/2020 |
| Unnamed CT5 | 158 | N/A | N/A | 12/2020 |
| Unnamed CT6 | 158 | N/A | N/A | 05/2021 |
| Unnamed CT7 | 158 | N/A | N/A | 12/2021 |
| Unnamed CT8 | 158 | N/A | N/A | 12/2021 |
| Unnamed CT9 | 158 | N/A | N/A | 12/2021 |
| Combined Cycle Unit Additions | | | | |
| Unnamed CC1 | 196 | - | - | Dec-20 |
| Unnamed CC2 | 196 | - | - | Dec-20 |
| Unnamed CC3 | 196 | - | - | Dec-21 |

Source: SEC 2012 TYSP

CITY OF TALLAHASSEE UTILITIES (TAL)

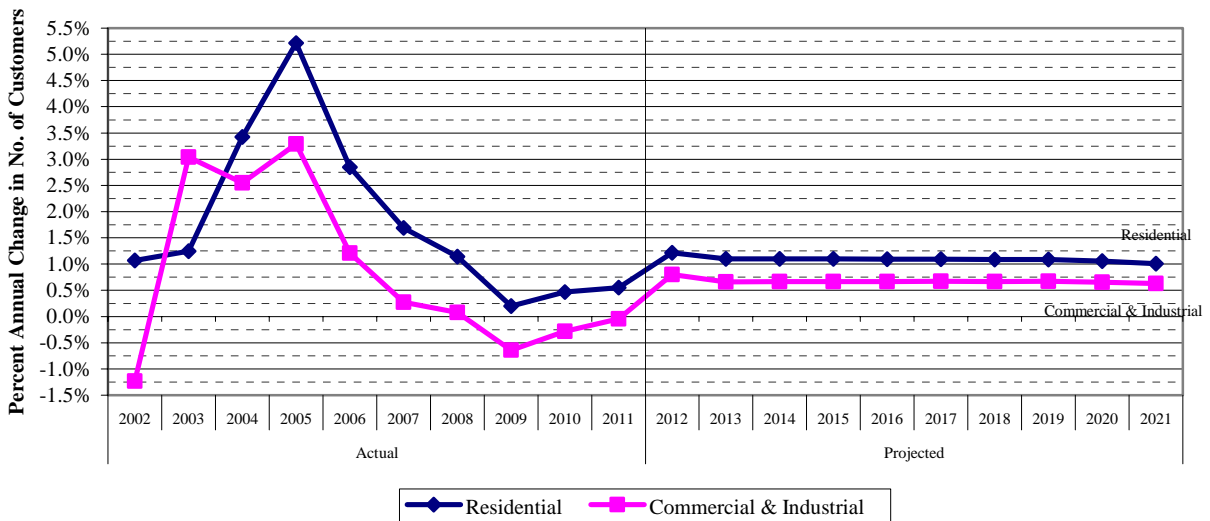
TAL is a municipal utility, and the state’s second smallest TYSP utility. The utility’s service territory is within the FRCC region, in Leon County, and primarily serves the City of Tallahassee. As TAL is a municipal utility, the Commission’s regulatory authority is limited to safety, rate structure, territorial boundaries, bulk power supply, operations, and planning.

In 2011, TAL had an average 114,212 customers, and had a total net energy for load of 2,799 GWh, approximately 1.2 percent of the NEL generated in the state last year.

Peak Demand and Energy Forecasts

TAL Figure 1 illustrates the company’s actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth for 2012 through 2021. A level, but positive growth is anticipated over the entire planning period, with an average annual growth rate of 1.01 percent. This compares to the actual average growth rate of 2.74 percent for the period 2002 through 2007, before the economic downturn.

TAL Figure 1. Annual Customer Growth Rate by Customer Class



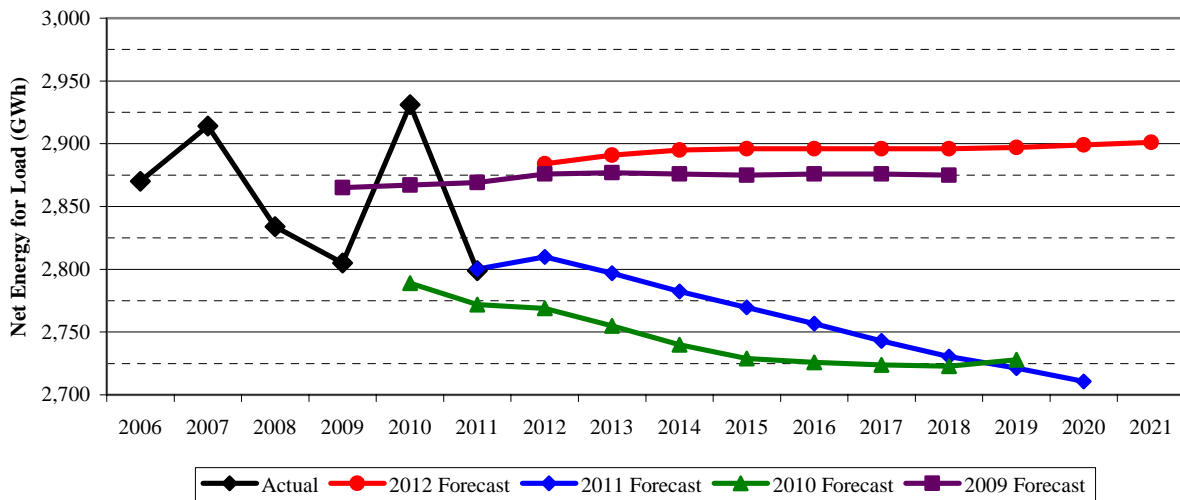
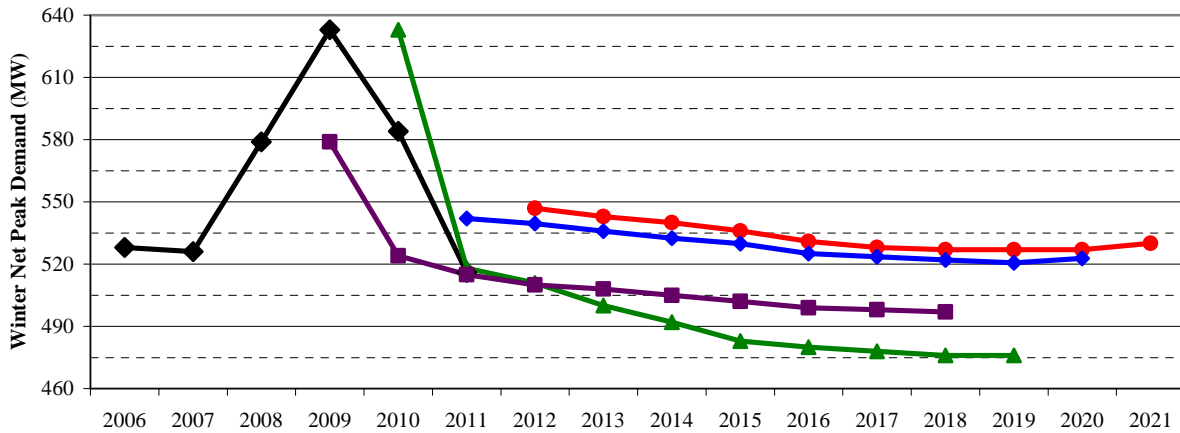
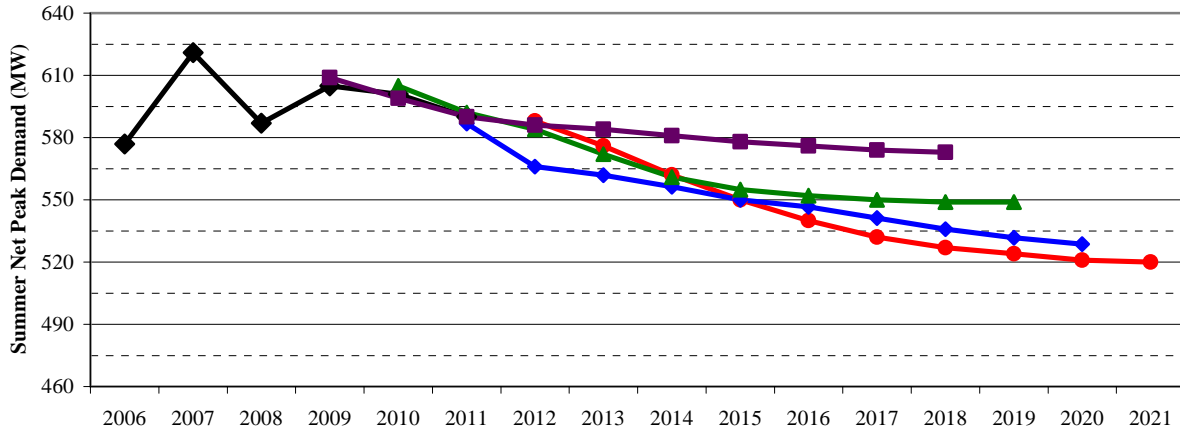
Source: TAL 2012 TYSP

The following three graphs in TAL Figure 2 show TAL’s historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current year and three previous forecast years. These figures show that the current forecast is similar for seasonal peak demand, but higher for NEL.

Analysis of TAL’s historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that TAL’s average forecast error is 8.77 percent. This value indicates that the company tends to over-forecast its retail energy sales by 8.77 percent, which is favorable

when compared to the average forecast error for all eleven of the TYSP utilities, which was 11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

TAL Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts



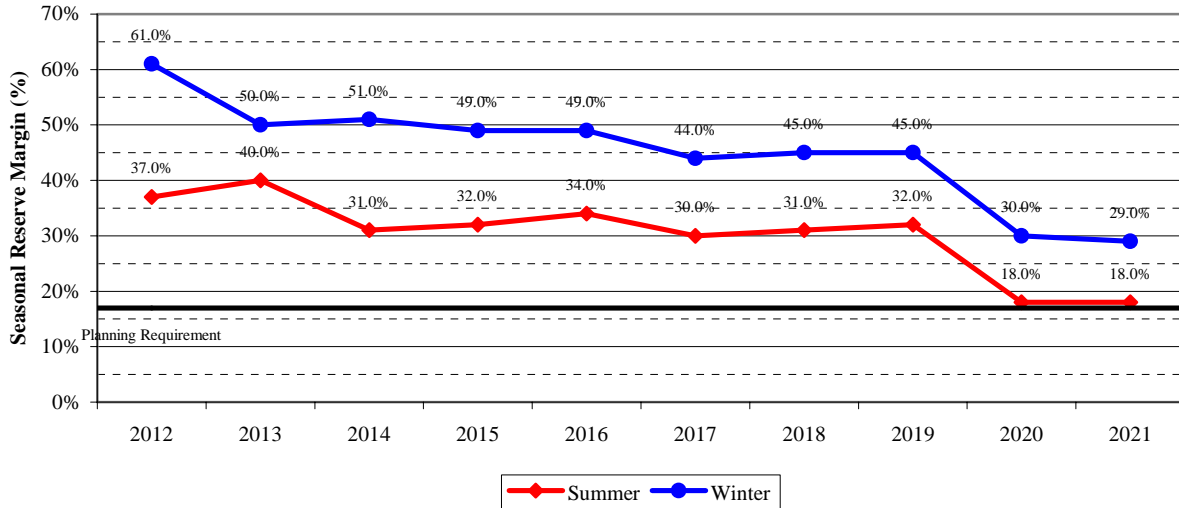
—◆— Actual —●— 2012 Forecast —◆— 2011 Forecast —▲— 2010 Forecast —■— 2009 Forecast

Source: TAL 2009 - 2012 TYSPs

Reserve Margin Requirement

As TAL is within the FRCC region, it is required to meet a 15 percent reserve margin requirement. However, TAL has adopted an 18 percent planning reserve margin requirement, as reflected in TAL Figure 3 below. TAL has sufficient reserve margin including the impact of demand response.

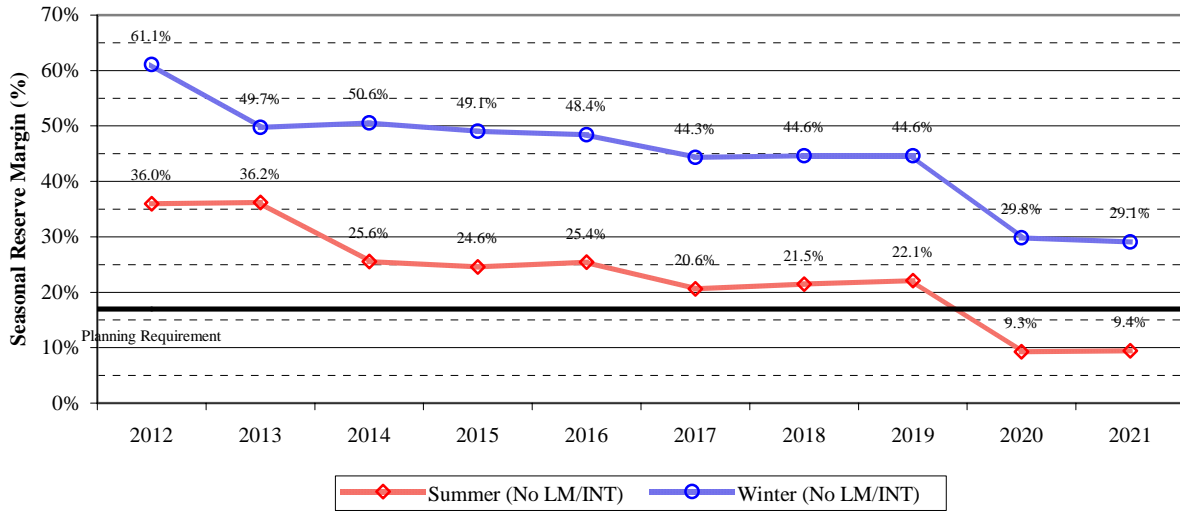
TAL Figure 3. Seasonal Reserve Margin (With LM/INT)



Source: TAL 2012 TYSP

In addition to supply-side resources, TAL has interruptible load and load management programs, which assist the utility in meeting reserve margin requirements. TAL Figure 4 below illustrates the impact on reserve margin of excluding demand response programs. As seen below, the summer peak demand period would fall below the planning reserve margin without the use of demand response programs to reduce peak demand in the outer years.

TAL Figure 4. Seasonal Reserve Margin (Without LM/INT)

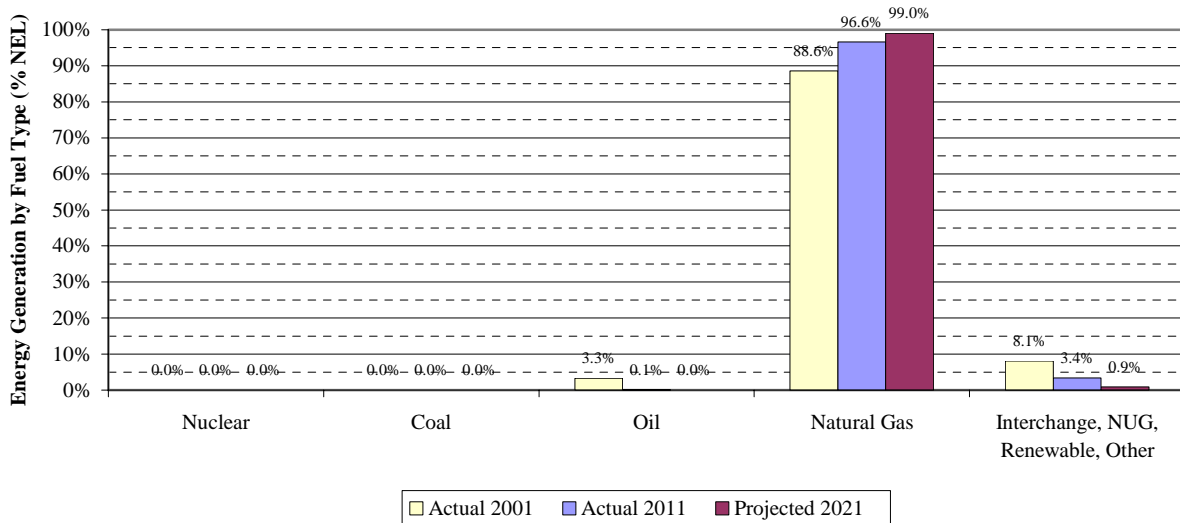


Source: TAL 2012 TYSP

Fuel Diversity

TAL Figure 5 displays the composition of Tallahassee’s system in terms of energy generated. As seen below, TAL has an almost exclusive dependence on natural gas, and by the end of the planning period almost 100 percent of energy for load will be from natural gas. The only other sources of energy on TAL’s system are oil, purchased power, and renewable energy.

TAL Figure 5. Net Energy for Load by Fuel Type



Source: TAL 2002 and 2012 TYSPs

Generation Additions

TAL has no planned generation additions over the planning horizon. This represents a decline from the company's 2011 TYSP, which anticipated the addition of a 46 MW combustion turbine unit in 2020.



**ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY**

**The Program Administrator
Cost of Saved Energy for Utility
Customer-Funded Energy
Efficiency Programs**

Megan A. Billingsley, Ian M. Hoffman, Elizabeth Stuart,
Steven R. Schiller, Charles A. Goldman, Kristina LaCommare

Environmental Energy Technologies Division

March 2014

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The Program Administrator Cost of Energy Saved for Utility Customer-Funded Energy Efficiency Programs

Prepared for the
U.S. Department of Energy
National Electricity Delivery Division of the Office of Electricity Delivery and Energy
Reliability

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Table of Contents

| | |
|--|------|
| Acknowledgements..... | iii |
| Table of Contents..... | iv |
| List of Tables | vi |
| List of Figures..... | vi |
| Acronyms and Abbreviations | viii |
| Executive Summary | ix |
| Results..... | xi |
| Observations and Recommendations on Reporting..... | xvi |
| 1. Introduction | 1 |
| 1.1 Assessing Energy Efficiency as a Resource | 1 |
| 1.2 Objectives and Scope..... | 2 |
| 1.3 Report Organization..... | 3 |
| 2. Approach | 4 |
| 2.1 Data Summary | 4 |
| 2.2 Program Typology and Standardized Definitions..... | 7 |
| 2.3 Challenges in Consistent and Standardized Reporting of Program Data | 11 |
| 2.4 Calculating and Using the Cost of Saved Energy..... | 12 |
| 2.4.1 Levelized Cost of Saved Energy..... | 14 |
| 2.5 Treatment and Adjustments for Missing Data | 15 |
| 2.5.1 Program Average Measure Lifetime..... | 16 |
| 2.5.2 Cost Data for Combined-Fuel Programs..... | 18 |
| 2.5.3 End-Use versus Source and Busbar Energy Savings..... | 18 |
| 3. Results—Utility Customer-Funded Programs: Costs and Savings | 19 |
| 3.1 Energy Efficiency Program Administrator Expenditures and Savings..... | 19 |
| 3.1.1 Electric Programs..... | 19 |
| 3.1.2 Gas Program Expenditures and Savings..... | 25 |
| 3.2 Observations on the Cost of Saved Energy..... | 27 |
| 3.2.1 National Observations..... | 27 |
| 3.2.2 Sector and Program Level Observations for Electricity Efficiency Programs | 30 |
| 3.2.3 Regional Observations in Electricity Efficiency Programs | 35 |
| 3.2.4 Sensitivity Analysis: Impact of Measure Lifetime | 41 |
| 3.2.5 Program Administrator and Participant Cost Analysis: The Total Resource Cost of Saved Energy | 42 |
| 4. Testing Influences on the Costs of Saved Energy..... | 44 |
| 4.1 Hypotheses..... | 45 |
| 4.2 Approach..... | 46 |
| 4.3 Preliminary Results: Analysis of Factors that May Influence the Cost of Saved Energy | 47 |

| | | |
|-------|--|----|
| 4.3.1 | Program Administrator Experience | 47 |
| 4.3.2 | Scale of Program..... | 48 |
| 4.3.3 | Labor Costs | 50 |
| 4.4 | Analytical Challenges | 51 |
| 5. | Discussion of Key Findings and Recommendations | 52 |
| 5.1 | Key Findings..... | 52 |
| 5.2 | Discussion: Program Data Collection and Reporting..... | 54 |
| 6. | References | 58 |

List of Tables

| | |
|---|----|
| Table ES-1. The program administrator cost of saved energy (CSE) for electricity efficiency programs for 2009-2011 data in the LBNL DSM Program Impacts Database (2012\$/kWh) | xi |
| Table 2-1. Summary of energy efficiency program data in LBNL DSM Program Impacts Database | 5 |
| Table 2-2. Abridged definitions for selected program cost and savings data..... | 10 |
| Table 2-3. Program administrator cost of saved energy metrics: definitions and potential uses.. | 13 |
| Table 3-1. Program administrator expenditures for 2009–2011 electricity efficiency programs. | 20 |
| Table 3-2. U.S. Census Regions and states in the LBNL DSM Program Impacts Database | 23 |
| Table 3-3. Program administrator expenditures for 2009-2011 natural gas efficiency programs | 26 |
| Table 3-4. The program administrator CSE for electricity efficiency programs by sector: national savings-weighted averages | 28 |
| Table 3-5. The program administrator CSE for gas efficiency programs by sector: national savings-weighted averages (\$/therm)..... | 29 |
| Table 4-1. Factors that may influence the cost of saved energy..... | 45 |

List of Figures

| | |
|---|------|
| Figure ES-1. CSE for electricity efficiency programs by sector for 2009-2011 data in the LBNL DSM Program Impacts Database | xii |
| Figure ES-2. National levelized CSE for C&I sector simplified program categories | xiii |
| Figure ES-3. National levelized CSE for residential sector simplified program categories..... | xiv |
| Figure ES-4. Levelized savings-weighted average CSE for electricity efficiency programs that include program administrator costs vs. total resource costs for select program categories | xv |
| Figure 2-1. LBNL DSM Program Impacts Database coverage as compared to national efficiency spending reported by Consortium for Energy Efficiency (CEE) | 6 |
| Figure 2-2. Selected program types in the LBNL program typology..... | 8 |
| Figure 2-3. Range of reported program average measure lifetime values for select detailed program categories | 17 |
| Figure 3-1. Program administrator expenditures, first year and lifetime gross savings for 2009–2011 electricity efficiency programs | 20 |
| Figure 3-2. Program administrator expenditures and lifetime gross savings by simplified program category for 2009–2011 residential electricity efficiency programs..... | 21 |
| Figure 3-3. Lifetime gross electricity savings for 2009-2011 residential consumer product rebate programs | 22 |
| Figure 3-4. Program administrator expenditures and gross lifetime savings for 2009-2011 commercial and industrial electricity efficiency programs | 23 |
| Figure 3-5. Program administrator expenditures by region for 2009-2011 electricity efficiency programs | 24 |
| Figure 3-6. Program administrator lifetime savings by region for 2009-2011 electricity efficiency | 25 |

| | |
|---|----|
| Figure 3-7. Program administrator expenditures, first- year and lifetime gross savings for 2009–2011 natural gas efficiency programs | 26 |
| Figure 3-8. National savings-weighted average CSE for electricity efficiency programs by sector | 28 |
| Figure 3-9. CSE for natural gas efficiency programs by sector..... | 30 |
| Figure 3-10. National levelized CSE for electricity efficiency programs by sector | 31 |
| Figure 3-11. National levelized CSE for commercial and industrial sector simplified program categories | 32 |
| Figure 3-12. National levelized CSE for residential sector simplified program categories | 33 |
| Figure 3-13. National levelized CSE for residential whole home detailed program category | 34 |
| Figure 3-14. National levelized CSE for residential consumer product rebate detailed program categories | 35 |
| Figure 3-15. Levelized CSE for electricity efficiency programs by region..... | 36 |
| Figure 3-16. CSE values by state for electricity efficiency programs (excluding low-income programs)..... | 37 |
| Figure 3-17. Percent of regional lifetime savings by climate zone and levelized CSE for electricity efficiency programs | 38 |
| Figure 3-18. Levelized CSE for residential new construction programs compared to residential building energy codes adopted by states in each region | 39 |
| Figure 3-19. Regional levelized CSEs for commercial new construction programs compared to commercial building energy codes adopted by states in each region..... | 40 |
| Figure 3-20. Impact of different program average measure lifetime assumptions on the levelized CSE for electricity efficiency programs | 42 |
| Figure 3-21. Levelized savings-weighted average CSE for electricity efficiency programs that include program administrator costs vs. total resource costs for select program categories | 43 |
| Figure 4-1. First-year portfolio-level CSE and program administrator experience, as measured by years of program spending above a minimal level..... | 48 |
| Figure 4-2. First-year CSE for appliance recycling programs and the reported number of recycling program participants | 49 |
| Figure 4-3. First-year portfolio-level CSE values and state average wages for construction industry employees (\$/hour)..... | 50 |
| Figure 5-1. Components of annual energy efficiency program reporting | 56 |

Acronyms and Abbreviations

| | |
|-------|--|
| ACEEE | American Council for and Energy-efficient Economy |
| C&I | commercial and industrial (private sector) |
| CCE | Cost of conserved energy |
| CEE | Consortium for Energy Efficiency |
| CSE | Cost of saved energy |
| DOE | U.S. Department of Energy |
| DSM | Demand-Side Management |
| EIA | Energy Information Administration |
| EERS | Energy Efficiency Resource Standards |
| HVAC | heating, ventilation, air conditioning |
| LCOE | Levelized cost of energy |
| MUSH | Municipal and state governments, universities and colleges, K-12 schools, and healthcare markets |
| WACC | Weighted average cost of capital |

Executive Summary

End-use energy efficiency is increasingly being relied upon as a resource for meeting electricity and natural gas utility system needs within the United States. There is a direct connection between the maturation of energy efficiency as a resource and the need for consistent, high-quality data and reporting of efficiency program costs and impacts. To support this effort, LBNL initiated the Cost of Saved Energy Project (CSE Project) and created a Demand-Side Management (DSM) Program Impacts Database to provide a resource for policy makers, regulators, and the efficiency industry as a whole.

This study is the first technical report of the LBNL CSE Project and provides an overview of the project scope, approach, and initial findings, including:

- Providing a *proof of concept* that the program-level cost and savings data can be collected, organized, and analyzed in a systematic fashion;
- Presenting initial program, sector, and portfolio level results for the program administrator CSE for a recent time period (2009-2011); and
- Encouraging state and regional entities to establish common reporting definitions and formats that would make the collection and comparison of CSE data more reliable.

The LBNL DSM Program Impacts Database includes the program results reported to state regulators by more than 100 program administrators in 31 states, primarily for the years 2009–2011. In total, we have compiled cost and energy savings data on more than 1,700 programs over one or more program-years for a total of more than 4,000 program-years’ worth of data, providing a rich dataset for analyses. We use the information to report costs-per-unit of electricity and natural gas savings for utility customer-funded, end-use energy efficiency programs. The program administrator CSE values are presented at national, state, and regional levels by market sector (e.g., commercial, industrial, residential) and by program type (e.g., residential whole home programs, commercial new construction, commercial/industrial custom rebate programs).

In this report, the focus is on gross energy savings and the costs borne by the program administrator—including administration, payments to implementation contractors, marketing, incentives to program participants (end users) and both midstream and upstream trade allies, and

Cost of Saved Energy (CSE) vs. Cost Effectiveness

The program administrator’s cost of saved energy is a useful metric for comparing the relative costs of efficiency programs and for comparing an energy efficiency option to other demand and supply choices for serving energy needs. The CSE is comparable to the levelized cost of energy (LCOE), which represents the per-kilowatt hour cost (in real dollars) of building and operating a generating plant over an assumed financial life and duty cycle.

The cost of saved energy is not a direct test of cost effectiveness, however, and is not a benefit-cost analysis, like the Program Administrator’s Cost Test or Utility Cost Test, because it does not purport to capture the monetized value of efficiency to utility customers and shareholders.

evaluation costs.¹ We collected data on net savings and costs incurred by program participants. However, there were insufficient data on participant cost contributions, and uncertainty and variability in the ways in which net savings were reported and defined across states (and program administrators). As a result, they were not used extensively in this report. It is also important to note that savings metrics reported by program administrators draw heavily from estimated values.²

Key Definitions

Program administrator costs include administrative, education, marketing and outreach, and evaluation, measurement and verification (EM&V) costs as well as financial incentives paid to customers or contractors. The CSE values exclude participant costs, and program administrator performance incentives, and, thus, do not represent the total resource cost unless indicated otherwise.

Program savings are based on **claimed gross savings** reported by the program administrator unless indicated otherwise. For program administrators that only reported net savings values, we calculated gross savings values using net-to-gross ratios if those were available from the program administrator.

Savings values are also based on **savings at the end-use site** and not at the power plant or natural gas pumping station and thus do not account for transmission and distribution losses.

Lifetime energy savings, when not reported by the program administrator, were calculated per the protocol described in Chapter 2.

Cost of First-Year Energy Savings (First-Year CSE): The cost of acquiring a single year of annualized incremental energy savings through actions taken through a program/sector/portfolio. The cost of efficiency as a function of first-year energy savings may be useful for program design or budgeting to meet incremental annual savings targets.

Levelized Cost of Lifetime Energy Savings (Levelized CSE): The cost of acquiring energy savings that accrue over the economic lifetime of the actions taken through a program/sector/portfolio, amortized over that lifetime and discounted back to the year in which the costs are paid and the actions are taken.

¹ Researchers who have estimated the cost of saved energy for efficiency programs have typically focused on the program administrator's costs because data on participant costs are often not available (Friedrich et al. 2009). Gross savings are those associated with the program participants' efficiency actions, irrespective of the cause of those actions. Net savings is defined as the total change in energy use that is attributable to a program (for both program participants and non-participants).

² Savings metrics rely heavily on estimated values because "...energy and demand savings as well as non-energy benefits resulting from efficiency actions cannot be directly measured. Instead, savings and benefits are based on counterfactual assumptions. Using counterfactual assumptions implies that savings are estimated to varying degrees of accuracy by comparing the situation (e.g., energy consumption) after a program is implemented (the reporting period) to what is assumed to have been the situation in the absence of the program (the "counterfactual" scenario, known as the baseline). For energy impacts, the baseline and reporting period energy use are compared, while controlling (making adjustments) for factors unrelated to energy efficiency actions, such as weather or building occupancy. These adjustments are a major part of the evaluation process; how they are determined can vary from one program type to another and from one evaluation approach to another. " (SEE Action Network 2012)

Results

The CSE values presented in this study are retrospective and may not necessarily reflect future CSE for specific programs, particularly given updated appliance and lighting standards. The CSE values are presented as either (a) the savings-weighted average values; (b) as an inter-quartile range with median³ values across the sample of programs; or (c) both.

Table ES-1 provides an overall indication of national, savings-weighted average program administrator CSE values by sector using two indicators (e.g., levelized CSE 6% real discount rate and first-year CSE).⁴ Figure ES-1 indicates the savings-weighted averages, medians and inter-quartile ranges for levelized CSE values using a 6% discount rate.

Table ES-1. The program administrator CSE for electricity efficiency programs for 2009-2011 data in the LBNL DSM Program Impacts Database (2012\$/kWh)

| Sector | Levelized CSE (\$/kwh; 6% discount rate) | First-Year CSE (\$/kwh) |
|-------------------------------|---|----------------------------|
| Commercial & Industrial (C&I) | \$ 0.021 | \$ 0.188 |
| Residential | \$ 0.018 | \$ 0.116 |
| Low Income | \$ 0.070 | \$ 0.569 |
| Cross Sectoral/Other | \$ 0.017 | \$ 0.120 |
| National CSE | \$ 0.021 | \$ 0.162 |

Values in this table are based on the 2009-2011 data in the LBNL DSM Program Impacts Database. CSE values are for **program administrator costs** and based on gross savings.

³ The *inter-quartile range* is the middle 50 percent of the range of program CSE values. The *median* is the numerical value separating the upper half of a data sample from the lower half.

⁴ We calculated a levelized CSE using two discount rates that are rough proxies for different perspectives on energy efficiency investments: a 6% real discount rate that can reflect the utility weighted average cost of capital (WACC) and a 3% real discount rate that can be a proxy for a societal perspective.

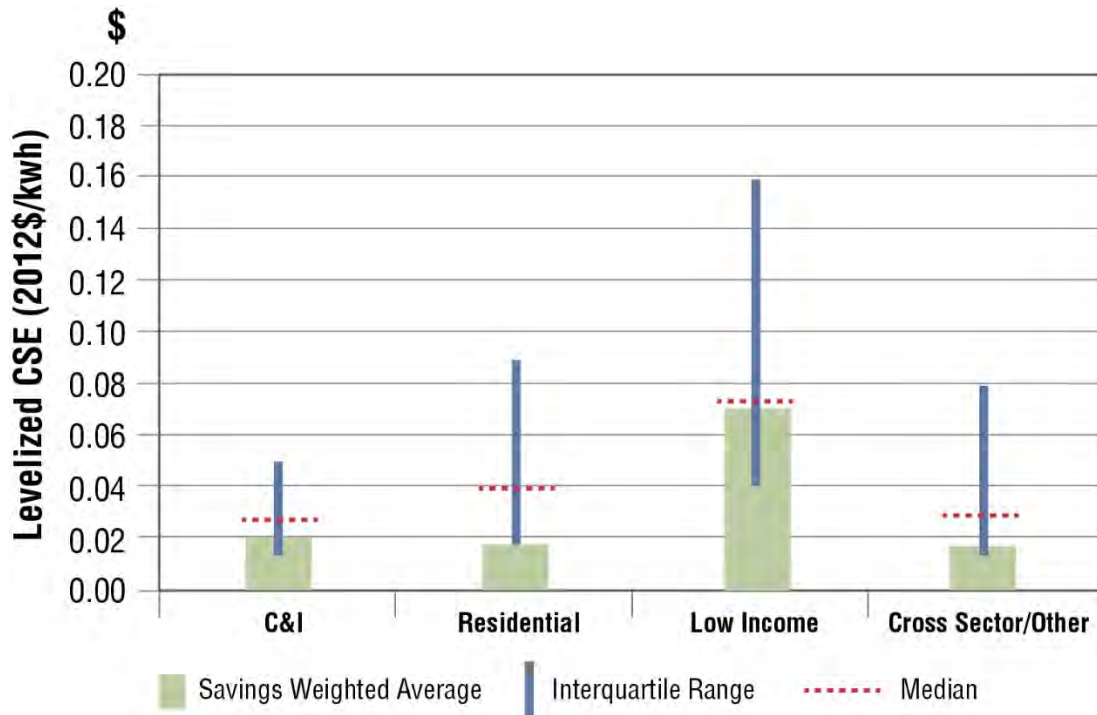


Figure ES-1. CSE for electricity efficiency programs by sector for 2009-2011 data in the LBNL DSM Program Impacts Database

Our key national and regional findings are:⁵

- The U.S. average levelized CSE was slightly more than two cents per kilowatt-hour when gross savings and spending is aggregated at the national level and the CSE is weighted by savings.
- Residential electricity efficiency programs had the lowest average levelized CSE at \$0.018/kWh. Lighting rebate programs accounted for at least 44% of total residential lifetime savings with a savings-weighted average levelized CSE of \$0.007/kWh. The residential CSE, when the lighting programs were removed, was \$0.028/kWh. Low-income programs have an average levelized CSE at \$0.070/kWh.
- Commercial, industrial and agricultural (C&I) programs had an average levelized CSE of \$0.021/kWh.
- Not surprisingly, the levelized CSE varies widely, both among and within program types. We find that the median value is typically higher than the savings-weighted average for nearly all types of programs. One possible explanation is that our sample includes a number of very large programs and for any given program type, larger efficiency programs have lower CSE than smaller programs because administrative costs are spread over more projects (e.g., economies of scale).
- In reviewing regional results, efficiency programs in the midwest had the lowest average levelized CSE (\$0.014/kWh), while programs in northeast states had a higher

⁵ Key findings in this section use savings-weighted average CSE values that include program administrator costs (in 2012\$) and reported gross savings, which are levelized using a 6% real discount rate.

average CSE value (\$0.033/kWh). Programs in western states are at \$0.023/kWh and for the southern states included in the database, the comparable program CSE was \$0.028/kWh.

- Natural gas efficiency programs had a national, program administrator savings-weighted average CSE of \$0.38 per therm, with significant differences between the C&I and residential sectors (average values of \$0.17 vs. \$0.56 per therm, respectively).
- The cost of saved energy may vary across program administrator portfolios for reasons that have little to do with programmatic efficiency. In some jurisdictions, a policy mandate of acquiring all reasonably available cost-effective energy efficiency can lead to a focus on more comprehensive programs which will tend to have a higher CSE because they are serving more diverse constituencies and technologies. In other jurisdictions, the focus may be on acquiring the cheapest savings possible.

Program-level results

We also examined the cost of saved energy by program type for both residential and C&I programs (see Chapter 3). Figure ES-2 shows an example for the C&I programs, including savings-weighted average (pale green bar) CSE values, the inter-quartile ranges (blue line) and median (red dotted line) CSE values. The median value and inter-quartile ranges for CSE are based on calculations for each individual program and gives equal weighting to programs irrespective of their relative size in terms of either savings or costs.

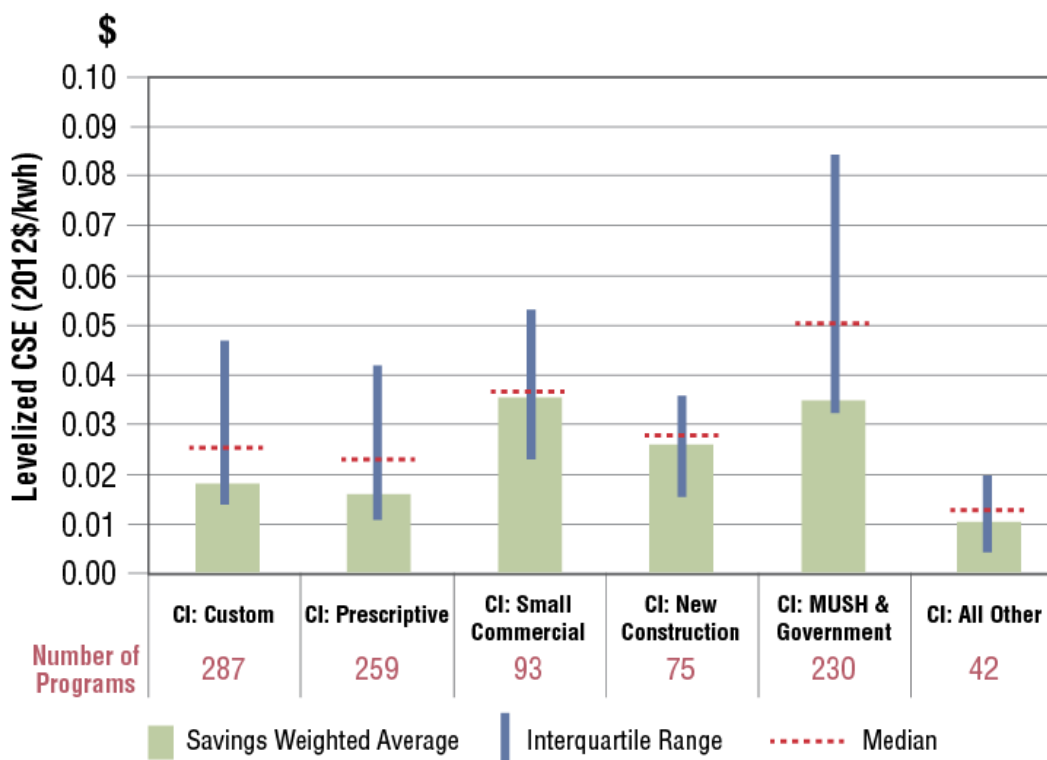


Figure ES-2. National levelized CSE for C&I sector simplified program categories

The simplified C&I programs have median values for program administrator CSE that range from \$0.01/kWh to \$0.05/kWh. It is worth noting that the savings-weighted average CSE values for custom and prescriptive rebate program categories are \$0.018/kWh and \$0.015/kWh, respectively. Since these two program categories account for almost 70% of C&I sector savings, they tend to drive the overall CSE results for the C&I sector (less than \$0.02/kWh).

For the residential programs, several program categories have a relatively tight range of program CSE values (see Figure ES-3). For example, Consumer Product Rebate programs have an interquartile range of \$0.01/kWh to \$0.04/kWh and a low savings-weighted average (~\$0.01/kWh). However, the residential prescriptive (\$0.03/kWh to \$0.11/kWh), new construction (\$0.03/kWh to \$0.11/kWh) and whole-home upgrade (\$0.03/kWh to \$0.21/kWh) program types have significantly larger ranges. There are several possible reasons for the range of CSE values in each of these program categories. The prescriptive simplified program category includes detailed program types that implement a wide variety of measures (e.g., HVAC, insulation, windows, pool pumps) as well as some generic “prescriptive” programs⁶ that often include measures also found in the consumer product rebate category. This broad measure mix, and the variation in costs and measure lifetimes associated with those measures, are possible drivers for the wide range of CSE values for the prescriptive category.

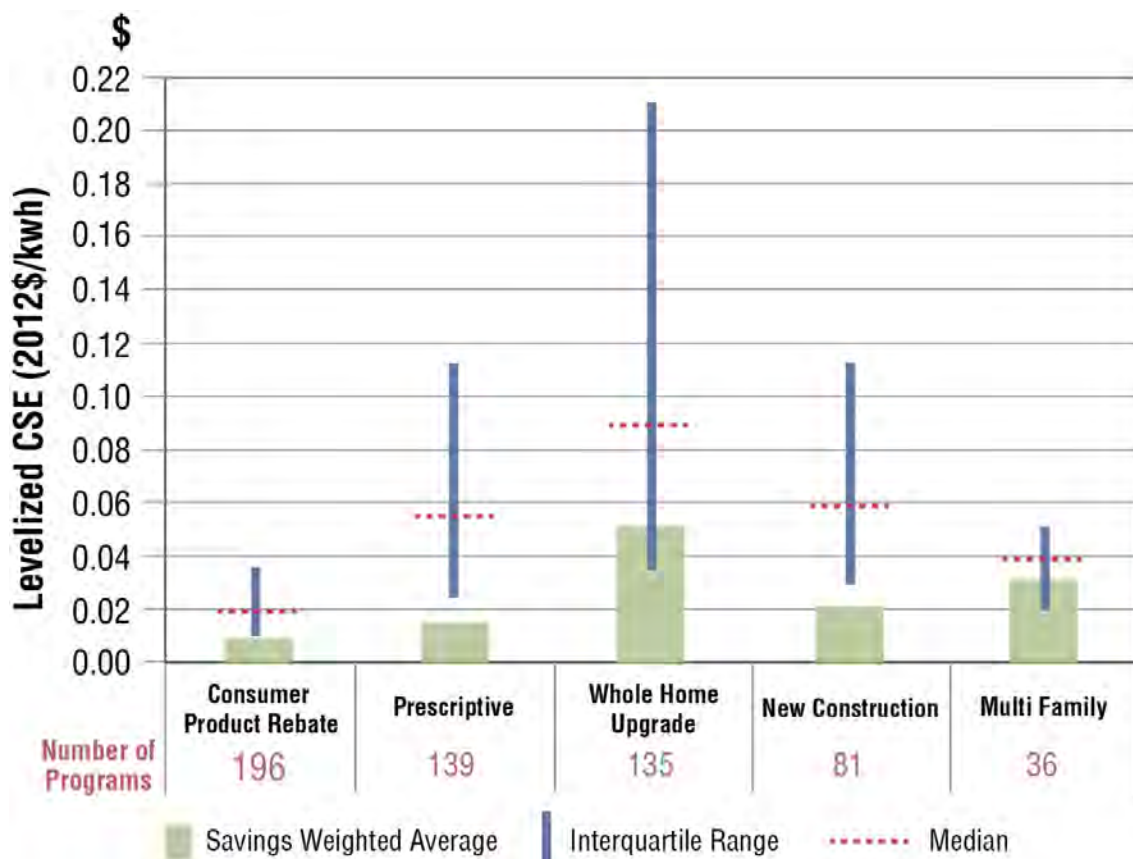


Figure ES-3. National levelized CSE for residential sector simplified program categories

⁶ Some programs include all their rebated measures under the same program title and it is not possible to determine where the majority of the savings is coming from. In these cases, the programs were categorized as “Residential Prescriptive.”

For the Whole-Home Upgrade program category, the broad range of program designs and delivery mechanisms (this category includes audit, direct install, and retrofit/upgrade programs) may help explain the relatively wide range of CSE values. Overall, most C&I program categories have a relatively smaller inter-quartile range of CSE values compared to residential program categories.

Total resource cost of saved energy

Although we focus on program administrator costs in this report, it is important to note that these metrics do not reflect a total cost perspective since program administrators infrequently report participant costs. We were able to collect participant cost data from a handful of program administrators. However, given small sample size and uncertainty in how participant costs were derived, it is difficult to confidently assess the “all-in” or total resource cost of efficiency or analyze potential influences on the total cost of the efficiency resource. For these reasons, in Figure ES-4, we compare the program administrator’s levelized CSE vs. a total resource levelized CSE for illustrative purposes only. We calculate this total resource CSE for the simplified program categories where both program administrator and participant costs are available for more than 18 program years.⁷

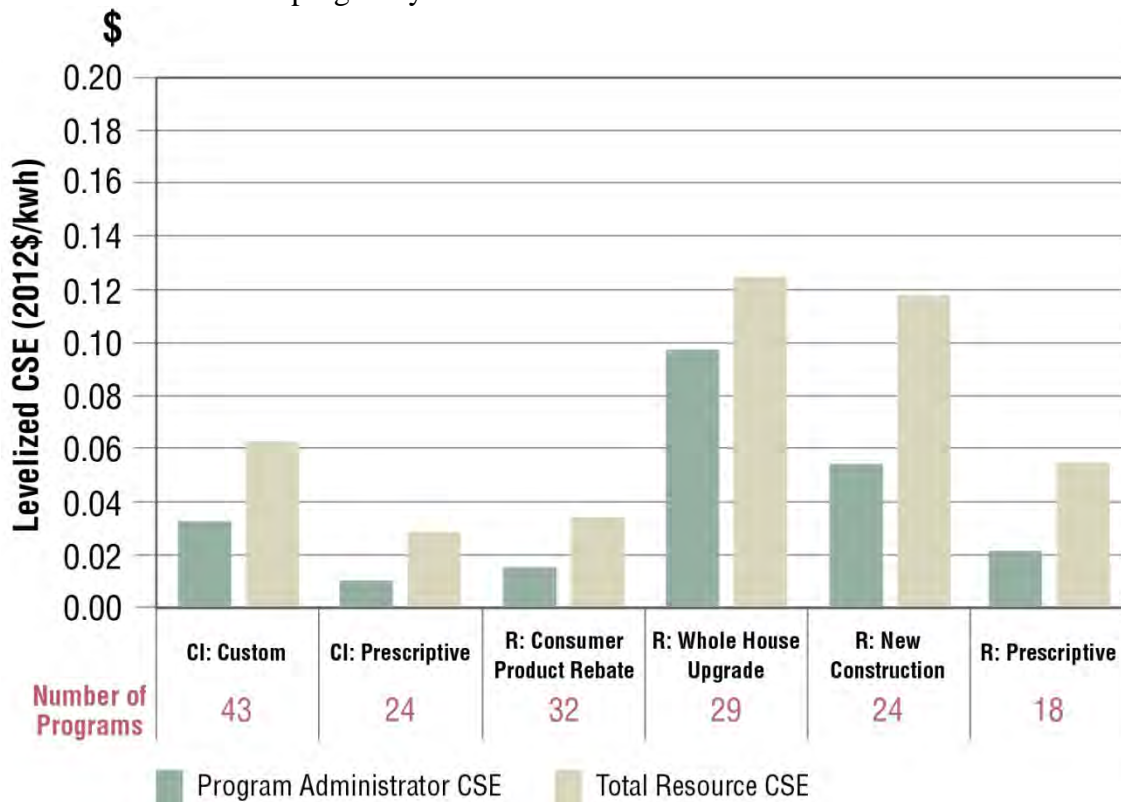


Figure ES-4. Levelized savings-weighted average CSE for electricity efficiency programs that include program administrator costs vs. total resource costs for select program categories⁸

⁷ The “n” of 18 was selected because there was a natural break in the data and there were a meaningful number of programs from which to calculate average values.

⁸ This chart includes a very small sample of programs from 11 states; thus, results may not reflect current practices in many jurisdictions.

For this small sample of programs, we found that the levelized total resource CSE values are typically double the program administrator CSE with the exception of the Residential Whole Home Upgrade program category (which has a savings-weighted total resource CSE about 25-30% higher than the program administrator CSE). Further data collection and analyses could better characterize the way in which the ratio of program administrator costs to participant costs varies as a function of sector, measure types, and market maturity; and how incentives and direct support might be optimized to pay no more than is necessary to meet a state's efficiency policy objectives.

Observations and Recommendations on Reporting

In calculating the CSE, we utilized information on program administrator costs, annual energy savings, estimated lifetime of measures installed in a program, and an assumed discount rate. However, with respect to current program reporting practices, we observed several challenges to the collection of this data for the purposes of calculating the CSE:

- Inconsistencies in the quality and quantity of the costs and savings data led LBNL to develop and attempt to apply consistent data definitions in reviewing and entering program data:
 - Program administrators in different states did not define savings metrics (e.g., varying definitions of net savings) and program costs consistently; and
 - Market sectors and program types were not characterized in a consistent fashion among program administrators.
- Many program administrators did not provide the basic data needed to calculate CSE values at the program level (i.e., program administrator costs, lifetime savings or program-average measure lifetimes), which can introduce uncertainties into the calculation of CSE values (as we developed and utilized methods to impute missing values in some cases).

As a practical matter, the quality and quantity of program data reported by program administrators is an important factor in assessing energy efficiency as a resource in the utility sector. Additional rigor, completeness, standard terms, and consensus on at least essential elements of reporting could pay significant dividends for program administrators and increase confidence in energy efficiency savings among policymakers and other stakeholders, particularly in situations where efficiency is treated as a resource in utility procurement decisions, ISO/RTO forward capacity markets or as an environmental compliance or mitigation option by state or federal environmental agencies.

Of the 45 states currently running utility-customer funded efficiency programs (Barbose et. al. 2013), only 31 states provided reporting with sufficient transparency to complete a program-level CSE analysis, and almost all of the 31 states' data required some interpretation for purposes of regional or national comparison. With more consistent and comprehensive reporting of program results, additional insights can quite possibly be obtained on trends in the costs of energy efficiency as a resource as program administrators scale up efforts, what saving energy costs among an array of strategies, and what and how cost efficiencies might be achieved.

Therefore, we urge state regulators and program administrators to consider annually reporting certain essential data fields at a portfolio level and more comprehensive reporting of program-level data in order to facilitate the comparison of efficiency program results at state, regional and national levels. A diagram illustrating this reporting hierarchy approach can be found in Chapter 5, Figure 5-1.

As part of the LBNL CSE Project, we intend to continue collecting energy efficiency program data and analyzing and reporting the CSE for efficiency actions funded by utility customers. We also plan to:

- Work with state, regional and national stakeholders to encourage the collection of program cost and impact data using a common terminology and program typology as defined in this report and a companion policy brief (Hoffman et al. 2013). This is important for organizing program data into appropriate and consistent categories so that programmatic energy efficiency, as a regional and national resource, can be reliably assessed.
- Annually compile data reported by program administrators and state agencies from across the United States.
- Conduct additional analyses to help increase understanding of factors that influence EE program impacts, costs and the cost of saved energy.

1. Introduction

Demand side management (DSM), and end-use energy efficiency specifically, is increasingly being relied upon as a resource for meeting electricity and natural gas system needs within the United States, often because efficiency is quite cost-effective compared to other resource options. For example, 15 states have enacted long-term, binding energy savings targets, often called Energy Efficiency Resource Standards (EERS), and another five states have mandates that program administrators must acquire “all cost-effective energy efficiency.”⁹ In 2011, U.S. energy efficiency program administrators that manage utility customer-funded efficiency programs spent about \$5.4 billion on electric and gas energy efficiency programs (CEE 2013), with spending projected to possibly more than double by 2025 (Barbose et al. 2013).

Electric and natural gas energy efficiency in the United States is pursued through a diverse mix of policies and programmatic efforts, which support and supplement private investments by individuals and businesses. These efforts include federal and state minimum efficiency standards for electric and gas end-use products; state building energy codes; a national efficiency labeling program (ENERGY STAR[®]); tax credits; and a broad array of largely incentive-based programs for consumers, funded primarily by electric and natural gas utility customers (Dixon et al. 2010) (Barbose et al. 2013).¹⁰

These utility customer-funded efficiency programs are overseen by state regulators and administered by more than 100 different entities (e.g., utilities, state energy agencies, non-profit and for-profit third parties) and are the focus of this study. Policymakers, regulators, program administrators and implementers rely on information about lifetime costs and savings of these customer-funded efficiency programs to assess efficiency’s potential, to design and implement programs in a cost-effective manner or to improve program cost effectiveness. Given the expected growth in efficiency funding and the importance of understanding the cost of saved energy (CSE), we initiated this LBNL Cost of Saved Energy Project (CSE Project) to provide a resource for policy makers, regulators and the efficiency industry as a whole.

1.1 Assessing Energy Efficiency as a Resource

The cost and cost effectiveness of utility-customer funded end-use efficiency programs depend on perspective. From the perspective of a participant in a program, their cost is the cost of an efficiency project net of any incentives or support that might be provided by a program administrator. From the program administrator’s perspective, it is the cost of planning, designing, and implementing a program and providing incentives to market allies and end users to take actions that result in energy savings; costs incurred by participants are not considered as part of the program administrator’s costs. The total resource or societal cost perspective takes into

⁹ States with an EERS as of the date of this report are: AZ, CA, CO, HI, IL, IN, MD, MI, MN, MO, NM, NY, OH, PA, and TX. Six states have a mandate to achieve all cost-effective savings: CA, CT, MA, RI, VT, and WA.

¹⁰ For additional energy efficiency market background, please see: The Future of Utility Customer-Funded Energy Efficiency Programs in the United States: Projected Spending and Savings to 2025. <http://emp.lbl.gov/publications/future-utility-customer-funded-energy-efficiency-programs-united-states-projected-spend>

account the costs paid by both the program administrator and the participant to implement the efficiency action.

Numerous researchers have estimated the CSE for efficiency programs funded by utility customers (see Appendix A for a description of past and current efforts). These researchers have typically focused on the program administrator perspective (i.e., the program administrator CSE), for two primary reasons. First, in some cases, participant costs are often not collected or reported by program administrators in annual reports (see Chapter 2). Second, when comparing efficiency with supply side resources, some consider that the proper metric is the money paid to obtain the resource by the program administrator as supply-side resources do not consider, or have, participant costs. For this report, primarily because of the first reason, we present program administrator CSE data and analyses.

Another consideration for assessing efficiency as a resource is whether CSE values are based on net or gross savings. Net savings are those attributed to a program (for both program participants and non-participants). Gross savings are those associated with the program participants' efficiency actions, irrespective of the cause of those actions. There is debate about the proper use of net and gross savings in CSE calculations (SEE Action 2012); however, since there is neither sufficient nor consistent data available on net savings, we present CSE values based on gross savings in this study.

1.2 Objectives and Scope

This CSE Project presents and analyzes the costs of acquiring energy savings for different efficiency program types and in different market sectors across the United States. Our objectives are to provide insight into the costs associated with saving a unit of energy and the potential factors that influence those costs. To this end, we hope our work will:

- Benefit policy makers, system planners and other stakeholders by providing continually improving CSE indicators that enable projections of future spending and savings.
- Enable more cost-effective efficiency programs by:
 - Benchmarking and comparing program implementation approaches across different markets (e.g., industrial, commercial, small commercial), delivery mechanisms (e.g., direct install versus do it yourself), and design approaches (e.g., prescriptive versus custom rebates);
 - Analyzing contextual factors that affect CSE, such as types of programs, measures, program administrator experience, changes in building energy codes and standards, labor costs, climate, state-level policies, and the scale of efficiency investments.

This study is the first technical report of the LBNL CSE Project and provides an overview of project scope, approach and initial findings, including:

- Providing a *proof of concept* that the program-level cost and savings data can be collected, organized and analyzed in a systematic fashion;

- Presenting initial program, sector and portfolio level results for the cost of saved energy for a recent time period (2009-2011); and
- Encouraging state and regional entities to establish common reporting definitions and formats that would make the collection and comparison of CSE data more reliable.

Specifically, this report includes and discusses elements of our approach, including the following:

- Developing the data collection, documentation, and analyses procedures LBNL used to calculate the CSE (Chapter 2);
- Defining program categories as well as cost and savings definitions that allow for consistent, standardized entry of program administrator data into a CSE database (Chapter 2);
- Developing a database of program-level data on energy efficiency program impacts and costs from states with significant utility customer-funded energy efficiency programs (Chapter 2);
- Presenting the range of regional-, state-, sector-, and portfolio-level energy-efficiency program administrator CSE and program-level CSE for a defined set of over 60 program categories (Chapter 3);
- Exploring potential relationships between the program administrator costs of saved energy for specific types of programs and climate zones and adopted building energy codes (Chapter 3);
- Conduct a preliminary statistical analysis that explores factors that may be associated with and influence the cost of saved energy at the portfolio or program level and set the stage for future analyses that will assess additional hypotheses and a broader, more refined range of factors (Chapter 4); and
- Present recommendations for future data collection and analyses (Chapter 5).

1.3 Report Organization

The remainder of this report is organized as follows. Chapter 2 provides an overview of approach used to collect data in the LBNL DSM Program Impacts Database and the challenges associated with collecting, organizing and analyzing the data in a consistent fashion. In Chapter 3, we present descriptive statistics on efficiency program costs and savings followed by presentation of CSE statistics at a national, sector, regional, and state level and for certain program types and in relation to climate zones and building code status. In Chapter 4, we discuss our efforts to define and statistically test some factors that may influence the CSE. Chapter 5 presents a discussion of the key findings and recommendations for regulators and program administrators to consider with respect to CSE-related data collection and reporting.

The appendices contain documentation on topics covered in the chapters, including tables of CSE metrics by region, sectors, and program types in Appendix E.

2. Approach

The state-by-state evolution of utility customer-funded energy efficiency programs has fostered diversity in these programs' oversight, design, administration and evaluation. Thus, not surprisingly, information provided to state regulators by program administrators on the impacts and costs of efficiency programs is diverse with respect to the level of specificity and detail required as well as terms and definitions used to describe the costs and impacts of individual programs. In this chapter, we summarize our assembled program data, discuss our approach to compiling, organizing and analyzing the data in a manner that addresses the diversity in reporting practices yet allows for consistent reporting on the cost of saved energy across the country and on the basis of region, market sector, and type of program. This approach included developing an energy efficiency program typology and adopting standard definitions for program characteristics, cost and savings data. We also discuss several major challenges associated with collecting and analyzing program cost and impact data and calculating CSE values given data quality issues.

2.1 Data Summary

The data for this study were drawn from annual reports, mostly for the years 2009–2011, which were prepared by program administrators of efficiency programs funded by the customers of U.S. investor-owned utilities in 31 states. Our energy efficiency program data set comprises expenditure, energy savings and program participation data (where available) reported by 107 program administrators, for a total of 4,184 program records (see Table 2-1).

We relied primarily on annual DSM or efficiency reports filed by program administrators with state regulatory agencies because they both typically include data for a portfolio of programs and are publicly available from state regulatory commission filings.¹¹ In some cases, when data were not found or were ambiguous in annual reports, we consulted other reports (e.g., other performance metrics reports filed by investor-owned utilities in California) or solicited additional information directly from the program administrator or regulatory staff. Where required data were not provided in a program administrator's filed annual report, but provided in third-party program evaluation reports that were included as attachments to the program administrator annual reports, we used data from both to populate what we are calling the LBNL DSM Program Impacts Database (database).^{12,13}

¹¹ The states included in this analysis were selected based on the availability and transparency of program cost and savings data at the individual program level as identified by LBNL researchers in a recent review of customer-funded energy-efficiency programs (Barbose et al. 2013). To the extent that reports were accessible, we collected data for all investor-owned utilities (IOUs) in the target states. Many program administrators had not yet released 2012 program year results during the data collection period for this study; thus our analysis focuses on the 2009–2011 period. We did not include program data from publicly-owned electric utilities and rural electric cooperatives because these utilities often do not report program level data that is publicly available. Future efforts may include data collected from public utilities.

¹² We did not rely on individual impact evaluation studies of efficiency programs because the data of interest to this project are usually reported in relatively easily accessible summary form and per program in the annual reports filed with regulators. Moreover, evaluations of individual programs are not always publicly available nor do they always include program or portfolio-related costs.

¹³ Appendix C describes data that was collected for this research effort, the database configuration, and the data quality assurance/quality control process and procedures.

Table 2-1. Summary of energy efficiency program data in LBNL DSM Program Impacts Database¹⁴

| State | First Year of Data | Last Year of Data | Total # of Years | Number of Program Administrators* | Number of Program Records |
|-------|--------------------|-------------------|------------------|-----------------------------------|---------------------------|
| AZ | 2010 | 2011 | 2 | 3 | 65 |
| CA | 2010 | 2012 | 3 | 4 | 1210 |
| CO | 2009 | 2011 | 3 | 1 | 110 |
| CT | 2009 | 2011 | 3 | 4 | 60 |
| FL | 2011 | 2011 | 1 | 5 | 88 |
| HI | 2009 | 2011 | 3 | 1 | 21 |
| IA | 2009 | 2011 | 3 | 3 | 171 |
| ID | 2010 | 2011 | 2 | 1 | 40 |
| IL | 2008 | 2011 | 4 | 2 | 85 |
| IN | 2009 | 2012 | 4 | 5 | 244 |
| MA | 2009 | 2011 | 3 | 11 | 403 |
| MD | 2010 | 2011 | 2 | 4 | 126 |
| ME | 2009 | 2011 | 3 | 2 | 22 |
| MI | 2009 | 2011 | 3 | 2 | 81 |
| MN | 2009 | 2011 | 3 | 2 | 141 |
| MT | 2011 | 2011 | 1 | 1 | 19 |
| NC | 2009 | 2011 | 3 | 2 | 37 |
| NH | 2009 | 2011 | 3 | 4 | 90 |
| NJ | 2009 | 2011 | 3 | 1 | 40 |
| NM | 2010 | 2011 | 2 | 4 | 101 |
| NV | 2009 | 2011 | 3 | 3 | 209 |
| NY | 2009 | 2011 | 3 | 11 | 111 |
| OH | 2009 | 2011 | 3 | 7 | 170 |
| OR | 2009 | 2011 | 3 | 2 | 16 |
| PA | 2009 | 2010 | 2 | 6 | 143 |
| RI | 2010 | 2011 | 2 | 2 | 36 |
| TX | 2010 | 2011 | 2 | 10 | 202 |

¹⁴ “Number of Program Records” includes programs that produced energy savings (e.g., residential or commercial rebate programs), programs for which the program administrator did not claim savings (e.g., education and outreach programs or pilot programs), and, in some cases, sector- or portfolio-wide activities (e.g., marketing or internal program evaluation activities).

| State | First Year of Data | Last Year of Data | Total # of Years | Number of Program Administrators* | Number of Program Records |
|---------------|--------------------|-------------------|------------------|-----------------------------------|---------------------------|
| UT | 2009 | 2011 | 3 | 1 | 41 |
| VT | 2009 | 2011 | 3 | 1 | 18 |
| WA | 2010 | 2011 | 2 | 1 | 42 |
| WI | 2009 | 2011 | 3 | 1 | 42 |
| Totals | | | | 107 | 4184 |

* In some cases, program administrators who run both gas and electric programs are counted twice for the purposes of separating the reported effects of each program.

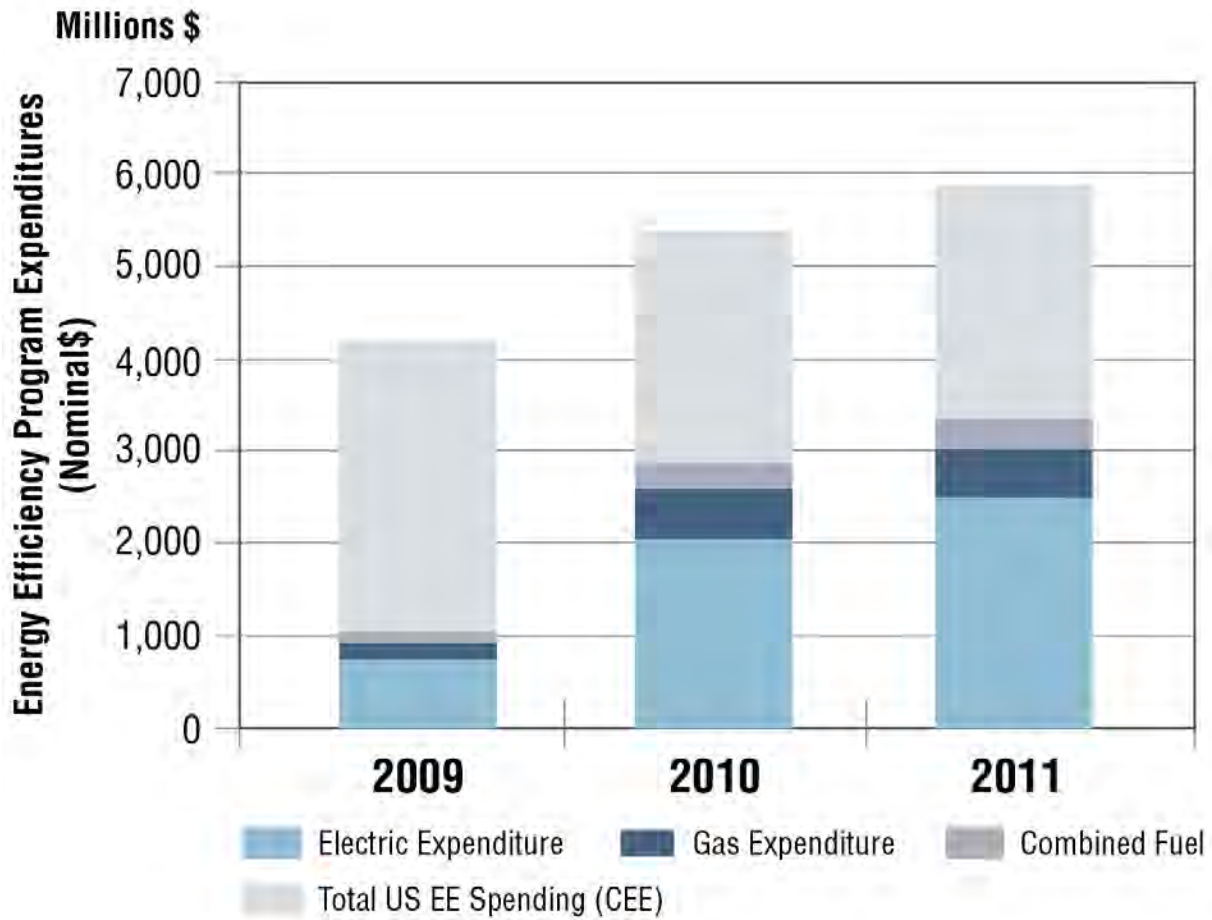


Figure 2-1. LBNL DSM Program Impacts Database coverage as compared to national efficiency spending reported by Consortium for Energy Efficiency (CEE)¹⁵

¹⁵ CEE Annual Industry Reports can be found here: <http://www.cee1.org/annual-industry-reports>

The efficiency program data that were compiled by LBNL staff into the database represent a significant share of all efficiency programs funded by utility customers in the United States. The database contains programs with total program administrator expenditures of about \$7.6 billion (see light and dark blue shading in Figure 2-1). Programs in the LBNL database represent about 25% (\$1.1 billion) of 2009 national program expenditures by gas and electric utilities and about 50% of program expenditures in 2010 and 2011 (\$2.9B in 2010 and \$3.2B in 2011), compared to national efficiency spending as reported by the Consortium for Energy Efficiency (CEE) (see Figure 2-1).¹⁶

2.2 Program Typology and Standardized Definitions

We developed program categories in order to characterize and analyze similar types of efficiency program types, as defined by market sector and technology, action, delivery approach, or other common themes. Examples of program categories include commercial prescriptive HVAC programs, low-income programs, and residential whole home direct-install programs. Some program categories are relatively well defined and include a narrow set of technologies (e.g., high-efficiency windows or pool pumps), while other categories are cross-cutting, may span a wide variety of activities (e.g., statewide marketing, take-home energy efficiency kits), and/or target several market sectors (e.g., in-school education programs, lighting technology market transformation programs).

The typology grouped and classified energy efficiency programs into three tiers: (1) sector; (2) simplified program categories; and (3) detailed program categories. Figure 2-2 provides a partial snapshot of this three-tiered program typology approach: seven sectors (including one for demand response programs, which are not addressed in this report), 31 simplified efficiency program categories (27 for efficiency programs) and 66 detailed categories (62 for efficiency).¹⁷ LBNL has prepared a policy brief that describes the typology in more detail as well as the standardized definitions (Hoffman et al 2013). Appendix B also includes the complete typology and set of definitions.

We determined that a three-tiered hierarchy was appropriate because it allowed for flexibility in grouping programs for comparison (e.g., single-measure versus comprehensive whole-building programs or by technology such as lighting vs. HVAC programs) and provides options for different levels of analysis. Moreover, in some cases, the detailed program category tier narrowed the range of installed measures for a program type, thus reducing the uncertainty in derivation of measure savings and lifetime savings across measures installed in that program. For example, we defined three detailed program categories that fall under the simplified program

¹⁶ However, as noted below and in Chapter 3, some of the data were not utilized for the data presentations, CSE metrics and analyses due to missing data. For example, the programs indicated as Combined Fuel in this figure were not included in the cost of saved energy analyses, because the costs borne by electricity and gas utility customers could not be determined for this subset of programs. Without the useable data, the database still contains about 45-50% of the national spending estimate.

¹⁷ The relatively large number of simplified and detailed categories was necessary to capture the wide range of common program offerings throughout the country. We also included some program types in the detailed typology because they have regional significance (e.g., pool pump programs in the Southwest, data center programs in New York, Washington and California), or the program types appear to be emergent (e.g., financing programs, residential behavior-based efficiency programs).

category of “Whole Home Upgrades”: Whole Home Audit Programs; Whole Home Direct-Install Programs; and Whole Home Retrofit Programs.¹⁸

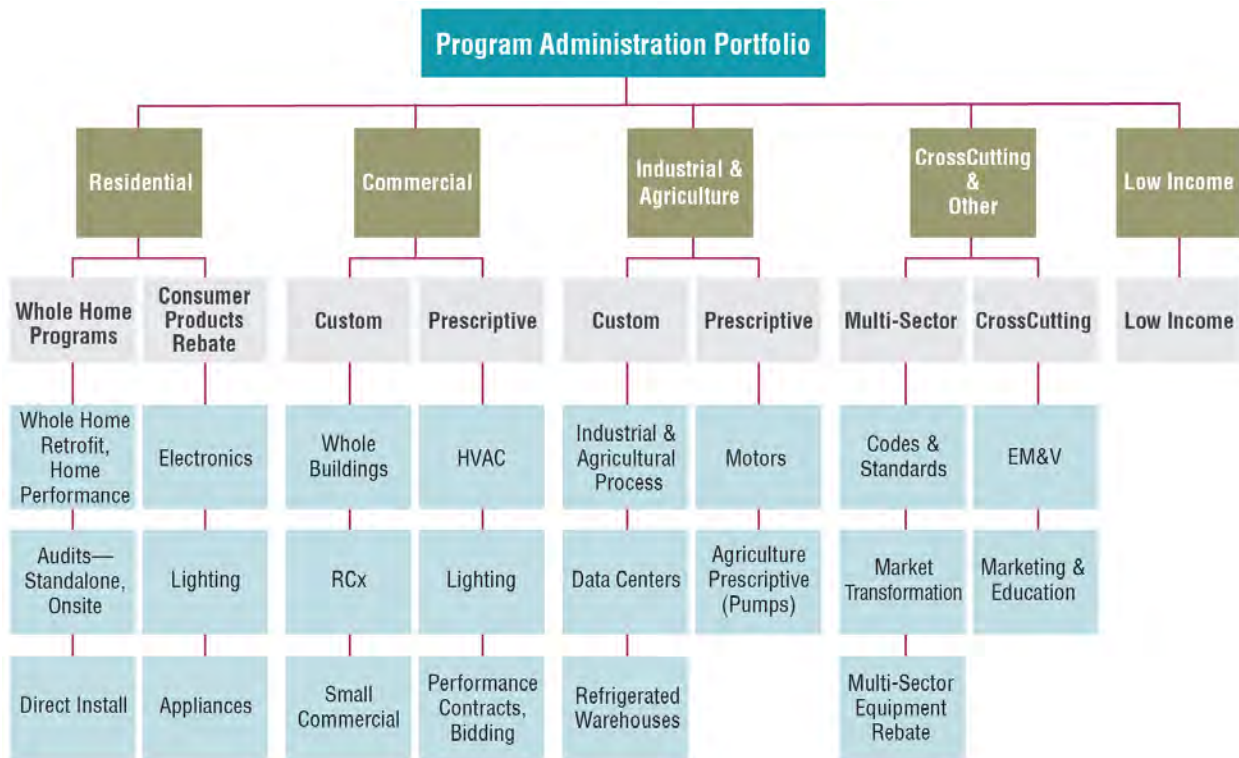


Figure 2-2. Selected program types in the LBNL program typology
Note: Not all sectors and simplified and detailed program categories are shown

We have relatively high confidence in the categorization of most programs. However, there are some programs where we were either not able to obtain much information about the measures offered under that program or where there was a wide array of measures offered under a single umbrella program. In both situations, programs were generally categorized under “prescriptive” or “other” categories. The mix of programs and measures in these two types of categories are likely to be less consistent than in other program categories.

The data fields and specification for the database and program categories were developed through an iterative process which included review of program administrator annual reports and review of several other sources that contain typologies and/or definitions, including the State and Local Energy Efficiency Action Network (SEE Action 2012), the Consortium for Energy Efficiency (CEE 2012), the Regional EM&V Forum of the Northeast Energy Efficiency

¹⁸ We found that program names were not always indicative of the appropriate program category. Thus, in many cases, we reviewed program information as part of the process of classifying programs into program category. We defined a specific set of guidelines for classifying programs by type. For example, when the program name was ambiguous (e.g., EnergySaver) or when the program description indicated savings could fall into more than one detailed or simplified category (e.g., a single program that offered both prescriptive and custom rebates), we looked at the measure-level savings reported for that program (if available) and categorized the program according to the reported measure mix.

Partnerships (NEEP 2011), and the NEEP Regional Energy Efficiency Database (REED 2013). We shared a draft of our categories and definitions and had several discussions with representatives from CEE, NEEP and the American Council for an Energy-Efficient Economy (ACEEE); and made revisions based on their input. For the demand-response program categories, we relied on program categories defined by the Federal Energy Regulatory Commission (FERC) for its national surveys (FERC 2012), although demand-response program data are not included in this study.

We also defined program cost and energy savings (impacts) data fields as part of our effort to classify and report program information in a consistent fashion across program administrators and states.¹⁹

- **Program Administrator Costs:** The primary cost data used in this report are the *program administrator costs* which include: (1) program administration planning and delivery; (2) engineering or technical support; (3) services provided by implementation contractors; (4) marketing, education and outreach; (5) direct rebates or financial incentives to program participants; and (6) evaluation, measurement and verification costs (see Table 2-1).²⁰ Program administrator costs exclude participant costs and performance incentives for program administrators (e.g., utility shareholder incentives).²¹ For each program we collected from one to four years of data.²² We made inflation adjustments to the program cost data provided by program administrators so that all cost data are reported in 2012\$.²³ We chose to use 2012 as our base year because 2012 is the most recent year for which an annual implicit price deflator for GDP is available from the U.S. Bureau of Economic Analysis. We would have preferred to also report CSE values based on participant, as well as program administrator, costs; however, we found that few program administrators reported participant costs in their annual reports (see Appendix C).
- **Program Savings:** The State and Local Energy Efficiency Action Network's Energy Efficiency Program Impact Evaluation Guide (SEE Action 2012) was the primary source used to describe and define the program energy savings indicators in a consistent fashion.²⁴ The SEE Action Guide was particularly important for providing

¹⁹ Program cost and savings definitions tend to be consistent within a state, even if there are multiple program administrators.

²⁰ Some program administrators did not include program-level costs for activities such as marketing/outreach, education, and evaluation, but instead accounted for those expenditures at the sector or portfolio level.

²¹ We did not report program administrator performance incentives because actual awards of performance incentives are not often included in annual reports filed by program administrators, and are frequently awarded at a significantly later date.

²² Some program administrators included prior years' data in their reports in addition to the 2009–2011 period.

²³ Costs can be presented in nominal (or current) or real (or constant) dollar terms. Nominal values are economic units measured in terms of purchasing power of the date in question. Real dollar values are economic units measured in terms of constant purchasing power. A real value is not affected by general price inflation and can be estimated by deflating nominal values with a general price index, such as the implicit deflator for gross domestic product or the Consumer Price Index. From OMB *Circular A-94 Guidelines And Discount Rates For Benefit-Cost Analysis of Federal Programs*. We used the GDP implicit price deflator published regularly by the U.S. Bureau of Economic Analysis.

²⁴ The SEE Action Guide describes common terminology, structures, and approaches used for determining savings from energy efficiency programs guide. The definitions in the SEE Action Guide incorporated input from program

data definitions for net and gross energy savings and lifetime energy savings, which for this report are assumed to take place at the end-use site where the efficiency actions were implemented.

Table 2-2 provides abridged definitions for key program data in the Database (see Appendix B for the complete glossary of energy efficiency program data fields).

Table 2-2. Abridged definitions for selected program cost and savings data

| Term | Definition |
|---|---|
| Program Administrator Costs | Program administrator costs include the costs of designing programs and portfolios; directing, managing and paying implementation contractors; marketing, education and outreach (ME&O); program and portfolio evaluations; and incentives to both program participants (or end users) and to both mid-stream and upstream allies in the market (e.g., financing and services such as installations or free audits). |
| Program Average Measure Lifetime | Weighted average economic lifetime (years) of all measures installed in a program year in a specified program. |
| Annual Gross Savings | Gross annual incremental savings (kWh or therm) as reported by the program administrator using their own staff or evaluation firm, after the subject energy efficiency activities have been completed. Gross savings are the change in energy consumption resulting from program-related actions taken by program participants regardless of why they participated. Note that these are annualized “full-year” savings, regardless of when measures were installed during the program year. Per the SEE Action reference (SEE Action 2012) these may be Claimed or Evaluated Savings. |
| Lifetime Gross Savings | The expected gross savings (GWh or therm) over the lifetime of the measures installed under the subject program. For our analysis, where available, we relied on lifetime savings reported by the program administrator. |

The detailed program categories and data definitions described in this section have been adopted by CEE for its own 2013 annual surveys of the efficiency program industry.²⁵ We hope that other entities will consider using them as well and to support that objective, as part of the CSE Project, LBNL plans to gather feedback from stakeholders via an annual or biennial process to modify, add or subtract program categories as program offerings change or to address potentially needed clarifications in the definitions and categories.

administrators, state regulators, and other stakeholders from a number of states and regions and included a review and synthesis of definitions used in a broad set of energy efficiency glossaries.

²⁵ As part of its 2013 annual “State of the Industry” survey, CEE is collecting program-level energy efficiency and demand response program data from program administrators using the LBNL program categories described in this report as well as the definitions from the SEE Action guide.

2.3 Challenges in Consistent and Standardized Reporting of Program Data

When data are compiled from multiple states and program administrators, terminology differences can potentially make it difficult to conduct comparative analysis across states or program administrators. This was a primary rationale underlying our effort to develop a program typology and standardized definitions so that we could conduct a comparative analysis of energy efficiency program impacts and costs. However, even with the typology and definitions, there are two key data challenges.

First, we assume that all expenditure, savings and participation data reported by a program administrator are accurate. Given our time and resources, this is a reasonable starting assumption; however, it should be noted that the range of effort placed into documenting impacts by program administrators varies significantly among states (SEE Action 2012).

Second, in reviewing information on efficiency programs funded by U.S. utility customers, we found that program data are often not defined and reported consistently among states. Specifically, we identified three key concerns in compiling and analyzing program information on a regional or national basis, some of which are addressed by the common typology and standardized definitions:

1. ***Energy savings and program costs are not defined consistently.*** The most common discrepancies can be found in the definitions of net energy savings. Examples of other program data where differences are found across states include:
 - The term “annual energy savings” typically is understood as shorthand for annualized incremental energy savings, but some entities—including resource planners—apply a different meaning that includes savings resulting from prior years’ activities.
 - The definition of measure lifetime, how a program’s average measure lifetime is determined, and the estimated measure lifetime values for the same measures or program types varies among states.
 - Some program administrators report end-use site savings and others report savings at the power plant bus bar (for electricity efficiency programs).
 - Most program administrators do not count their own performance incentives among program costs, although some do. The definitions of other cost categories (e.g., marketing costs, general consumer education, and evaluation) also vary among states.
2. ***Program data are not reported consistently across states.*** For example, some states report just gross or net energy savings; others report both. Similarly, many efficiency annual reports only include first-year savings and not lifetime savings.²⁶ With respect to cost data, program administrators often classify costs differently among administration, marketing and outreach, incentives and participant costs. Some program administrators

²⁶ We found that only about a quarter of the program reports that were reviewed included information on measure lifetimes or lifetime savings, although this information is required to assess program cost effectiveness. See below, in the section on adjustments for missing data, for discussion of how measure lifetime variation creates uncertainty in the calculation of CSE.

also report certain costs (e.g., marketing, evaluation) at the portfolio or sector level, while others account for those costs at the program level.

3. ***Programs and sectors are not characterized in a standardized fashion.*** Programs targeting specific building types or consumers can be included under different sectors from state to state (e.g., multi-family residential structures are sometimes categorized as commercial programs). Moreover, the types of activities and measures that are included under the same program title (e.g., custom vs. combination custom/prescriptive programs) also vary.

We suggest that readers consider these above issues when utilizing the information in this report for their own uses and understanding of the cost of saved energy.

2.4 Calculating and Using the Cost of Saved Energy

The program administrator's CSE is a useful metric for comparing the relative costs of efficiency programs and for comparing an energy efficiency option to other demand and supply choices for serving electricity and natural gas needs²⁷. However, the cost of saved energy is not a test of cost effectiveness (e.g., one of the screening tests used by program administrators) because: (1) it does not capture the full benefits to utility customers and shareholders (e.g., avoided generation capacity, avoided transmission and distribution investments, avoided environmental compliance costs); (2) benefits are not monetized but reflected simply in energy units of kilowatt hours or therms, the cost of which will vary by utility; and (3) energy is saved at the end use, not the power plant.²⁸

In this report, we use gross energy savings (rather than net savings) in the CSE calculations primarily because of data availability and comparability reasons: (1) more administrators reported gross savings than net; and (2) net savings are defined relatively inconsistently, as compared to gross savings, among program administrators and states.

We also report savings at the end-user level (and not at the busbar or power plant source), because this is what most program administrators report. It is important to note that savings from electricity efficiency programs reported at the busbar would be higher than at the end-use level because we are accounting for distribution and transmission losses (losses also occur in the natural gas network as well).²⁹

²⁷ According to the Energy Information Administration, "levelized cost is often cited as a convenient summary measure of the overall competitiveness of different generating technologies. It represents the per-kilowatt hour cost (in real dollars) of building and operating a generating plant over an assumed financial life and duty cycle. Key inputs... include overnight capital costs, fuel costs, fixed and variable operations and maintenance (O&M) costs, financing costs, and an assumed utilization rate for each plant type.
http://www.eia.gov/forecasts/aeo/electricity_generation.cfm

²⁸ The equation also is inverted, with costs in the numerator and benefits (in energy units) in the denominator—the reverse of the benefit/cost ratios that are a key determinant of cost effectiveness.

²⁹ This is an important consideration if the CSE values were to be compared with costs of electricity generation resources, which typically are indicated as busbar values.

We calculate the cost of saved energy (CSE) metrics in three ways: (1) a cost of lifetime saved energy; (2) a levelized cost of energy savings using two discount rates (3% and 6% real); and (3) a cost of first-year energy savings. See Table 2-3 for definitions of these CSE metrics and their common uses.

Table 2-3. Program administrator cost of saved energy metrics: definitions and potential uses

| Program Administrator Cost Metric | Shortened Term | What is Measured | Potential Uses |
|--|----------------|---|--|
| Cost of Lifetime Energy Savings | Lifetime CSE | The cost of acquiring energy savings that accrues over the economic lifetime of the actions taken through a program/sector/portfolio. Calculated by dividing program administrators' costs by the gross savings. | <ul style="list-style-type: none"> • Used by program administrators for designing programs and portfolios, e.g., for depth of savings and cost effectiveness • Used by planners and other stakeholders to project efficiency as a resource, develop load forecasts, etc. |
| Levelized Cost of Energy Savings | Levelized CSE | The cost of acquiring energy savings that accrue over the economic lifetime of the actions taken through a program/sector/portfolio, amortized over that lifetime and discounted back to the year in which the costs are paid and the actions are taken | <ul style="list-style-type: none"> • Same uses as lifetime savings • Useful to program administrators, regulators and other stakeholders who want to compare particular demand-side options with other demand, and supply-side, resources |
| Cost of First-Year Energy Savings | First-Year CSE | The cost of acquiring a single year of annualized incremental energy savings through actions taken through a program/sector/portfolio. Calculated by dividing the program administrators' costs by the first year incremental savings. | <ul style="list-style-type: none"> • Useful for program administrators in program design |

The cost of saved energy can be useful to various stakeholders. For example, state regulators can use both first-year and lifetime CSE values as quick metrics for assessing whether a program or portfolio looks like a reasonable expenditure of utility customer funds. A program administrator that is considering offering a comprehensive residential energy upgrade program may want to compare that program's estimated per-unit cost performance against average costs and the range of costs for similar programs. Based on the comparison, the program administrator may want to

look at the design of comparable programs for potential cost efficiencies. Regulators and resource planners can use the levelized CSE in the initial screening analysis of various supply- and demand-side resources. Resource planners also can use the lifetime CSE to convert approved budgets for demand-side management plans into energy savings estimates that then can be used in scenario or sensitivity analysis of future load forecasts.

Finally, based on the limited participant cost data reported by program administrators, we calculate a total resource CSE for illustrative purposes in Chapter 3. This calculation presents the net total costs, including both program and participant costs, for the efficiency resource. A levelized total resource CSE might also be useful to program administrators, regulators and other stakeholders who want to compare particular demand-side options with other demand and supply-side resources.

2.4.1 Levelized Cost of Saved Energy

The lifetime cost of energy savings metric is a simple, straight-forward calculation although it ignores changes in the value of money between an initial investment and future energy savings. Meier (1982) included the time value of money (discount rate) to calculate the “cost of conserved energy” (CCE) or what we are calling the “levelized cost of saved energy”. Meier found that inclusion of the discount rate raises the CCE because of discounting future benefits, yet provides a basis for comparing the CCE for measures that have different lifetimes and can be compared to retail rates and levelized costs of supply-side resources.³⁰ A similar accounting framework, the levelized cost of energy (LCOE), often is applied to assessing the economic competitiveness of diverse generation sources (U.S. Energy Information Administration 2013).

We calculated a levelized CSE using two discount rates³¹ that are rough proxies for different perspectives on energy efficiency investments: a 6% real discount rate that can reflect the utility weighted average cost of capital (WACC) at present and a 3% real discount rate that can be a proxy for a societal perspective. The levelized CSE calculation is as follows:

$$\begin{aligned} \text{Levelized CSE (in \$/unit energy, e. g., kWh, therm, Btu)} \\ = (C \times (\text{Capital Recovery Factor})) / (D) \end{aligned}$$

$$\text{Capital Recovery Factor} = [A * (1 + A)^B] / [(1 + A)^B - 1]$$

Where:

A = Discount rate

³⁰ See Appendix A for further discussion of the history of efficiency CSE analyses

³¹ Discount Rate: An interest rate applied to a stream of future costs and/or monetized benefits to convert those values to a common period, typically the current or near-term year, to measure and reflect the time value of money. It is used in benefit-cost analysis to determine the economic merits of proceeding with a proposed project, and in cost-effectiveness analysis to compare the value of projects. The discount rate for any analysis is either a nominal or a real discount rate. A nominal discount rate is used in analytic situations when the values are in then-current or nominal dollars (reflecting anticipated inflation rates). A real discount rate is used when the future values are in constant dollars and can be approximated by subtracting expected inflation from a nominal discount rate (SEE Action Network 2012).

B = Estimated program measure life in years

C = Total program cost in 2012\$

D = Annual kWh saved that year by the energy efficiency program

This formula is the classic definition of a compound interest calculation used to calculate equivalent annual net disbursements.

The discount rate can have a significant impact on the calculated CSE. For example, for a program with an average measure lifetime of 20 years, a discount rate of 6% will indicate a levelized CSE that is about 30% higher than the same program if a discount rate of 3% were used. See Appendix D for further discussion of the factors considered in choosing these two illustrative interest rates.

2.5 Treatment and Adjustments for Missing Data

In calculating CSE for efficiency programs, we encountered several data completeness issues that needed to be resolved:

- Many programs' data included neither program measure lifetime nor gross lifetime savings. This information is necessary to calculate lifetime and levelized CSE;
- Some combined gas and electric program administrators reported separate savings for their electric and gas programs but did not separate their electric and gas program costs; and,
- Most program administrators reported end-use energy efficiency savings while others reported savings at the source of the electricity (generation or busbar savings). Natural gas savings are usually considered the same at the end-use site and at points along the gas distribution, although there is the potential for per unit losses from the natural gas source to the end user.

In addition, for the few program administrators that reported only net savings, we calculated gross savings by dividing reported net savings by a net-to-gross ratio³² when this ratio was provided in related references for the subject programs.³³ Furthermore, some program reports provided no cost data and others provided no savings data; these programs were excluded from the CSE analysis. These adjustments resulted in program data from 100 program administrators in the database being utilized in calculating CSE values in this study.³⁴

³² The net-to-gross ratio is the net program impact (energy savings) divided by the gross program impact.

³³ In Massachusetts and New York, program administrators reported net savings and did not provide net-to-gross ratios in their annual efficiency reports. In these cases, we applied net-to-gross ratios reported in the 2011 REED database and applied the program level ratios to the previous two years included in this analysis (2009-2010). New Hampshire program administrators reported net lifetime savings for 2009-2010. We were not able to generate a gross lifetime or annual incremental savings values needed to calculate the CSE and therefore those years were dropped from the analysis.

³⁴ Data from 100 of the 107 program administrators whose data are in the LBNL DSM Program Impacts Database are included in this Chapter. The seven program administrators that were excluded represent about eight percent of the total costs for programs in the Database. Three program administrators are excluded because their combined gas and electric program costs could not be separated out by fuel type, three program administrators were excluded because they did not report expenditures at the program level, and one program administrator was excluded because it reported net savings in a manner that did not allow determination of gross savings. Two years of program data

2.5.1 Program Average Measure Lifetime

The CSE calculation takes into account the costs incurred to implement the measures, which in the database all occur during the program year,³⁵ and the savings that occur over the lifetime of the implemented measures. However, program administrators reported lifetime savings for only about 44% of the programs years in the collected annual reports (see Appendix C).³⁶ Another way to calculate the lifetime savings is to multiply the first-year savings by the program average measure lifetime (program lifetime)³⁷, which we interpret as the lifetimes of the various measures installed through a program weighted by their respective savings.

However, even fewer program administrators reported any form of a program lifetime—about 26% of electric and 30% of gas programs for the 2009–2011 period (see Appendix C). For the programs that did report a lifetime value, program average measure lifetimes varied widely within many of the detailed program categories.³⁸ For example, the median program lifetime for residential new construction programs is 18 years, with a program life of 14 and 25 years at the 25th and 75th percentile for programs in the database. Figure 2-3 shows the range, inter-quartile range, and median program lifetime values reported for a selected sample of detailed program categories.

Given the limited availability of lifetime savings and program lifetime values, we developed the following set of decision rules, or protocol, for defining lifetime savings for each program in the database:

1. When available, use the program lifetime savings reported for the program by the program administrator;
2. When program administrator did not report program lifetime savings, but did report program average lifetime value, we multiplied this value by the reported first-year savings to calculate the program's lifetime savings;³⁹

from three other program administrators were not used in the CSE analysis because these program administrators reported net savings in a manner that did not allow determination of gross savings; however, the third year of data for those three program administrators was used.

³⁵ Some project installations may be completed after the end of the program year but are accrued to the program year in which the project was initiated (e.g., customer has signed up, equipment installation has been scheduled, equipment installation has begun but not been completed). Some energy efficiency actions also may require ongoing, incremental operations and maintenance expenditures (compared to the baseline equipment), which are not considered in this study, which is consistent with most energy efficiency program assessments.

³⁶ There are more than 4,000 program years in the database, where we count each program in each year of implementation separately.

³⁷ Measure lifetime, also called effective useful life (EUL), is based on the lifetime of equipment installed or measures implemented and measure persistence (as opposed to savings persistence). In many energy efficiency programs, the estimated EUL takes into account both the expected remaining life of the measure being replaced and the expected changes in operational baselines over time (Mass Save 2011, SEE Action 2012).

³⁸ A number of factors may contribute to the variation in reported measure lifetimes including the unique mix of measures implemented for a program (particularly for programs that contain a wide range of longer- and shorter-lived measures) and different assumptions and/or methodologies used to determine measure lifetime used by program administrators.

³⁹ Some program administrators document the average measure lifetime for programs that installed a mix of measures. The most common approach used by program administrators is to weight the program average measure lifetime by respective measure savings. We applied this approach for all of the reported program measure lifetimes.

- For programs where we did not have lifetime savings or measure lifetime data, we calculated a program average measure lifetime for similar programs in the database and used that imputed value along with the program’s first-year savings to calculate program lifetime savings.⁴⁰

For program categories that contained a broad unspecified mix of activities or too few data points to calculate a national program average measure lifetime values, we reviewed technical reference manual lifetime values for specific measures to generate a “national program average measure lifetime” value for that program.⁴¹ Given the wide variation in reported measure lifetimes, our method of calculating a national program average measure lifetime and applying it to programs for which that data are not available introduces uncertainty into the final CSE calculation, particularly for program categories that contain mixes of measures with wide-ranging measure lifetimes. In Chapter 3, we include results of a sensitivity analysis that illustrates the impact of varying measure lifetime assumptions on CSE calculations.

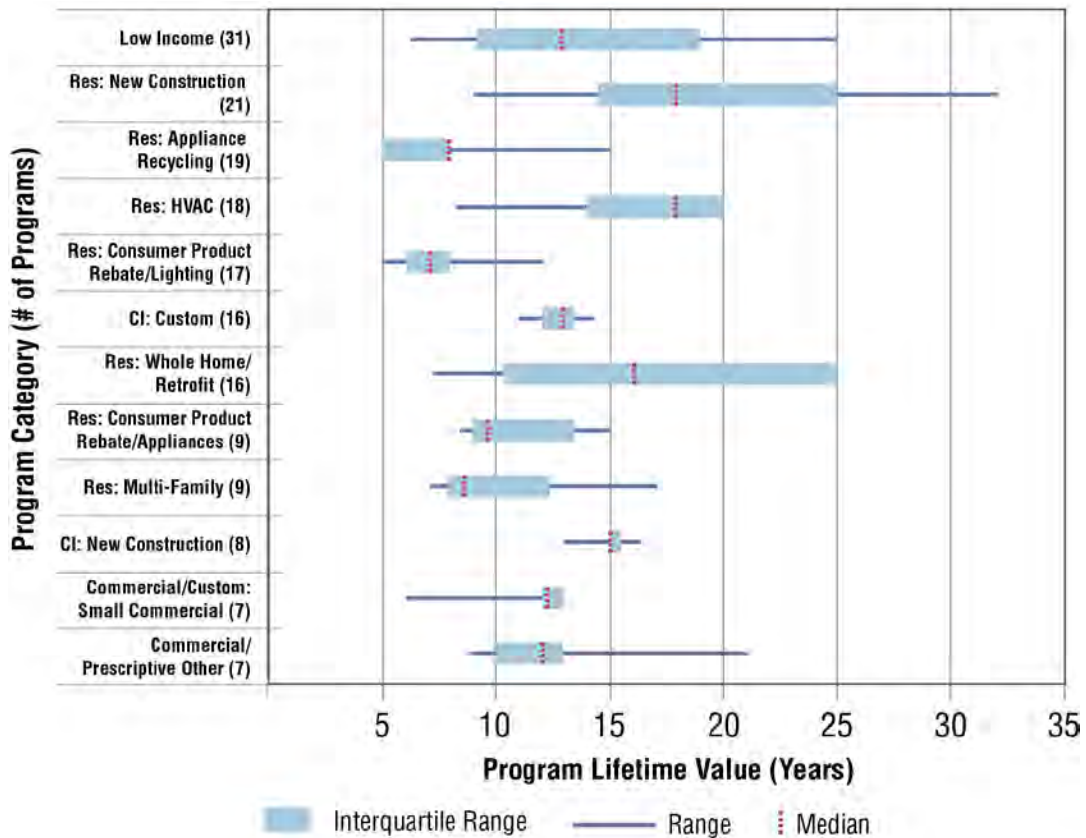


Figure 2-3. Range of reported program average measure lifetime values for select detailed program categories

The authors’ experience indicates that the way in which measure lifetimes are defined, determined and reported are not consistent among program administrators.

⁴⁰We calculated a national program average measure lifetime as follows: divide reported lifetime savings by first-year savings values for each program in the database that reported this information in order to generate a national (un-weighted) program average measure lifetime by program type.

⁴¹ See Table C-3 in Appendix C for the national program average measure lifetime values calculated for each of the detailed program categories.

2.5.2 Cost Data for Combined-Fuel Programs

Some program administrators of combined-fuel programs reported separate electric and gas savings values but did not report separate costs for electric and gas programs or measures. For those program administrators where we could not reliably calculate the per-kWh and per-therm CSE from the reported data, we obtained additional information that enabled us to calculate reasonable estimates of the disaggregated electric and gas expenditures for the following combined fuel utility cases:

- The California combined-fuel utilities did not provide separate electric and gas cost data. However, one of the utilities provided program-level data on the net monetized benefits of the programs, allocated by fuel. We were then able to estimate that utility's combined electric and gas program costs by fuel (electricity and natural gas) based on the program's share of savings allocated to each fuel.
- A New England combined-fuel utility that had not reported separate gas and electric cost data later provided estimates of the ratio of gas and electric costs which were applied to that utility's data.

Other program data from program administrators for which we could not disaggregate electric and gas program costs were included in the overview of program spending and savings presented at the beginning of Chapter 2, but excluded from the dataset used to calculate CSE.⁴²

2.5.3 End-Use versus Source and Busbar Energy Savings

Most state program administrators reported end-use energy efficiency savings; however, there were a few program administrators that reported both end-use and busbar, and a handful that only reported busbar savings. For the purposes of this report, we followed the following decision rules:

- Where program administrators reported both end-use and busbar savings, we used end-use savings;
 - Where program administrators are not clear, or do not explicitly state that the savings is end-use, we treat the savings values as end-use savings;
- Where program administrators only reported a busbar savings value, we identified a line loss estimate and calculated that end-use savings.⁴³

⁴² Wisconsin's single statewide program administrator was included in the program spending and savings overview but excluded from the CSE results because the program administrator did not provide disaggregated electric and gas program expenditures data.

⁴³ For a discussion on line losses, please see: <http://www.raonline.org/document/download/id/4537>

3. Results—Utility Customer-Funded Programs: Costs and Savings

In this chapter, we first present a national overview of electric and gas energy end-use efficiency program administrator expenditures and savings, including summaries by market sector and region for the programs in the LBNL DSM Program Impacts Database (database). We then present ranges of program administrator cost of saved energy (CSE) values, mostly for electricity efficiency programs (as they represent about 80% of program expenditures), on a national, regional, and state basis. Some CSE values are presented at the sector and program level as well. We also include sensitivity analyses on the impact of assumed measure lifetimes on the CSE (one of the data issues raised in Chapter 2). Finally, we present CSE results for those programs where program administrators reported program administrator costs and participant costs (what some refer to as the total resource cost).

The results presented in this chapter represent a significant portion of the efficiency programs funded by customers of U.S. investor-owned utilities during 2009, 2010, and 2011. However, when using the information, the reader should recognize that they are not necessarily a representative sample, particularly for some regions of the country where annual reporting is not prevalent.

Attributes of Information Reported in this Chapter

Costs refer to **program administrator costs** only; the CSE values exclude participant costs unless specifically indicated otherwise.

Savings are based on **gross savings** reported by the program administrator unless specifically indicated otherwise. For program administrators that only reported net savings values, we calculated gross savings values using net-to-gross ratios. Savings values are also based on **savings at the end-use site** and not at the power plant or natural gas pumping station and thus do not account for transmission and distribution losses. See Chapter 2 for more detailed explanation.

Lifetime energy savings, when not reported by the program administrator (which was the case for about 50% of the programs), were calculated per the protocol described in Chapter 2.

3.1 Energy Efficiency Program Administrator Expenditures and Savings

3.1.1 Electric Programs

Program administrator expenditures for identifiable electricity efficiency programs⁴⁴ in the database, for the years 2009–2011, totaled just under \$5.3 billion (in 2012\$) with commercial/industrial programs (C&I) programs representing about 60% of expenditures and residential programs comprising about 30% of the expenditures (see Table 3-1).

In terms of how electricity savings vary by sector for the programs in the database, the answer depends on whether first year or lifetime savings are considered (see Figure 3-1). The savings accruing from C&I sector programs accounted for 53% of the aggregate first-year savings and 62% of the aggregate lifetime savings. Residential programs' share of first-year savings was higher than their share of expenditures; residential programs made up 29% of expenditures but garnered 40% of first-year savings and 31% of lifetime savings. On the other hand, low-income programs represent 6% of the total expenditures and 2% of first-year and lifetime savings.

⁴⁴ Eighty-eight program administrators reported electric program data.

Table 3-1. Program administrator expenditures for 2009–2011 electricity efficiency programs

| Market Sector | Share of Total Program Administrator Expenditures | Total Program Administrator Expenditures (million 2012\$) |
|--------------------|---|---|
| C&I | 61% | \$3,214 |
| Residential | 29% | \$1,515 |
| Low Income | 6% | \$332 |
| Cross Sector/Other | 4% | \$213 |
| TOTAL | 100% | \$5,274 |

We also examined residential expenditure and savings data by simplified program type and found that consumer product rebate programs,⁴⁵ prescriptive rebate programs⁴⁶ and whole home programs⁴⁷ were the top three contributors to expenditures and lifetime electricity savings in the LBNL DSM Program Impacts Database. Combined, these three programs represented 84% of total expenditures and 90% of the lifetime savings for residential programs in our database (see Figure 3-2).

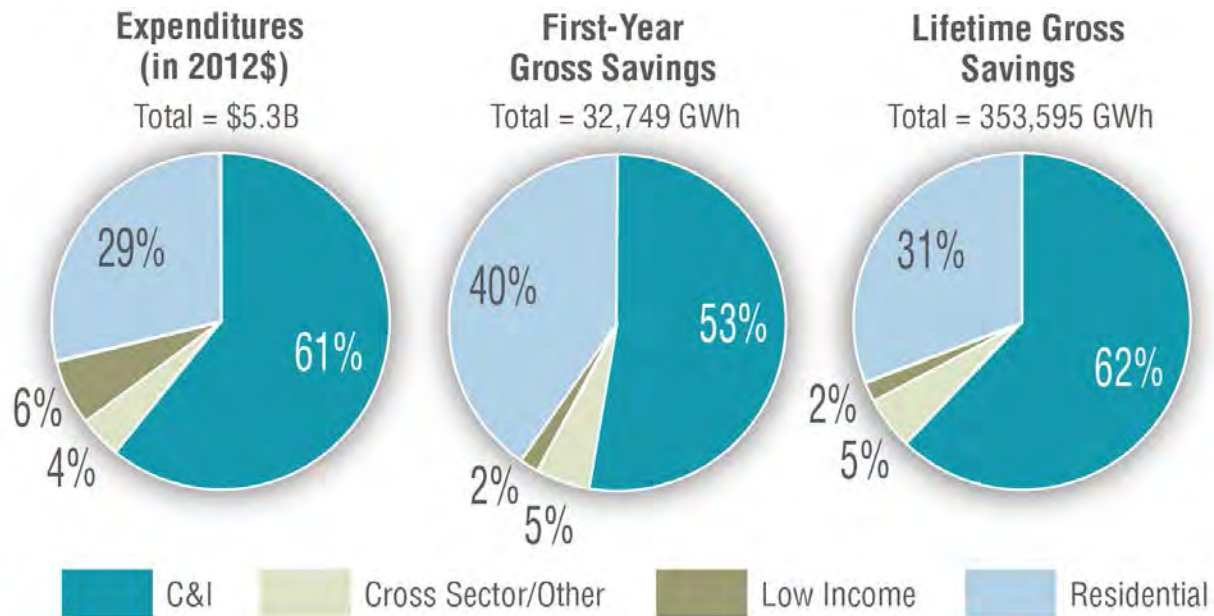


Figure 3-1. Program administrator expenditures, first year and lifetime gross savings for 2009–2011 electricity efficiency programs

⁴⁵ Programs that encourage use of more efficiency products such as appliances, electronics, lighting products, etc.

⁴⁶ Programs that provide pre-defined incentives for installation of cost efficient products such as insulation, windows, water heaters, etc.

⁴⁷ Programs that offer direct install services, audits or incentives for comprehensive packages of efficient products.

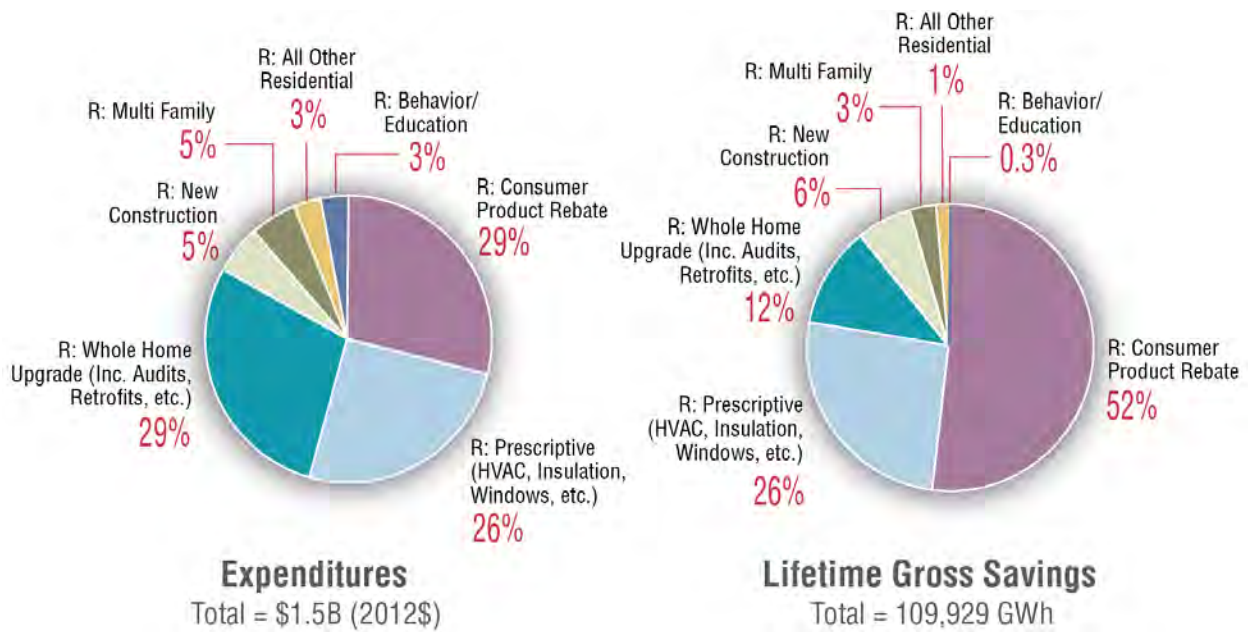


Figure 3-2. Program administrator expenditures and lifetime gross savings by simplified program category for 2009–2011 residential electricity efficiency programs

Other observations from the database’s residential electricity program data, as shown in Figure 3-2, are:

- Consumer Product Rebates accounted for about 29% of total residential program expenditures, but over half of the lifetime savings;
- Residential Prescriptive programs accounted for similar percentages of expenditures and lifetime savings, both 26%;
- Whole Home Upgrade programs represented about 29% of aggregated expenditures and 12% of the lifetime electricity savings;
- New Construction programs accounted for 5% of residential program expenditures and 6% of the sector’s lifetime savings,
- Multifamily programs accounted for 5% of expenditures and 3% of lifetime savings, and
- Behavior and Education programs make up 3% of expenditures but less than 1% of lifetime savings.

To illustrate the power of a program-level database, we analyzed the four detailed program types that are included in the residential Consumer Product Rebate program category that covers 52% of the residential lifetime electricity savings (see Figure 3-3). This analysis indicated that lighting rebate programs accounted for over 80% of all gross electricity savings attributed to the consumer product rebates in the program administrator program reports we compiled. This means that lighting rebates represent at least 44% of total residential lifetime savings.⁴⁸ Appliance Recycling programs (which we also included in the product rebate category)

⁴⁸ We indicate at least 44% because other program types also can, and often do, include lighting related products.

accounted for 6% and appliance rebates made up 2% respectively of all residential sector lifetime gross savings. Consumer Electronics programs, the fourth detailed program type in the consumer product rebate category, garnered less than 1% of residential sector savings.

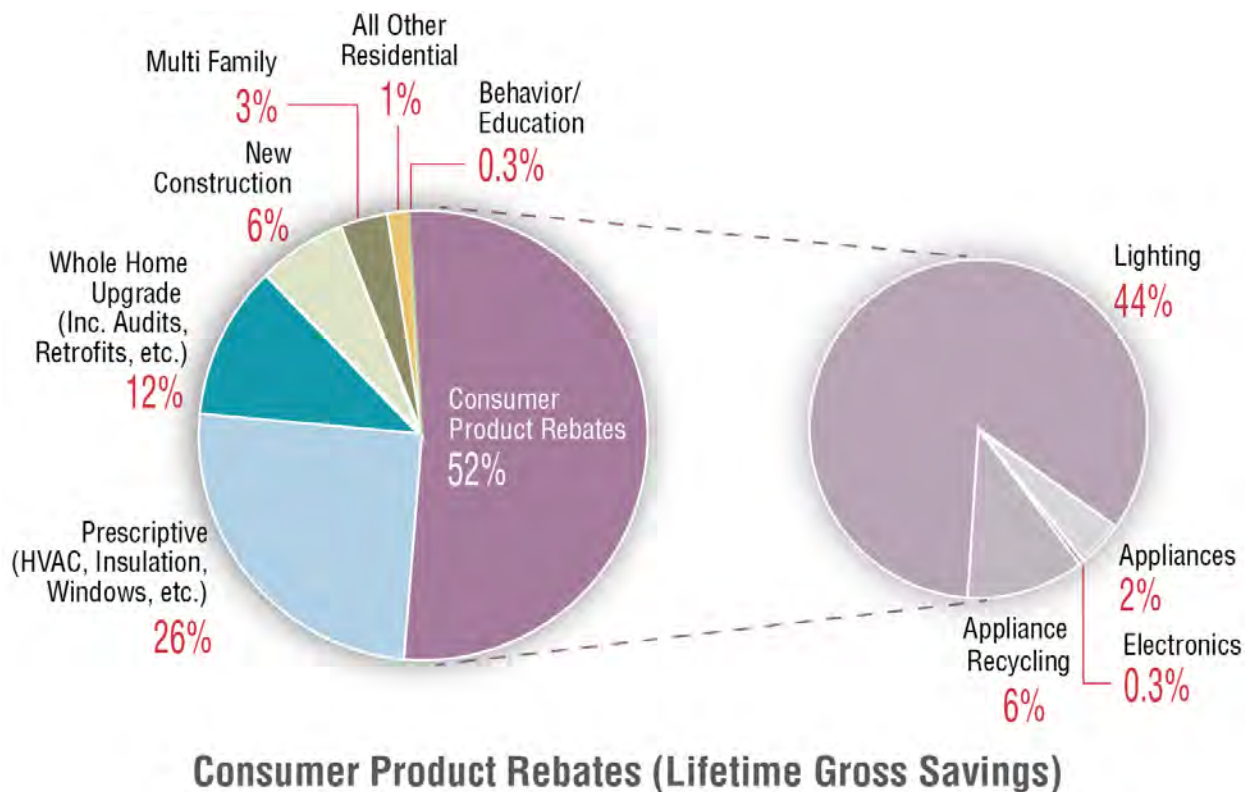


Figure 3-3. Lifetime gross electricity savings for 2009-2011 residential consumer product rebate programs

We also analyzed C&I sector expenditure and savings data by simplified program type (see Figure 3-4) and found the following:

- At 36%, custom programs represented the largest share of all C&I expenditures as well as the largest share of all C&I total lifetime savings at 38%.
- Prescriptive and small commercial programs accounted for comparable shares of C&I expenditures at about 21% each; although reported lifetime savings were much greater for prescriptive programs (30% of all savings) compared to small commercial programs (11% of all C&I savings).
- Commercial new construction programs accounted for 12% of C&I expenditures and 10% of the sector’s savings.
- Programs specifically targeting the institutional market (municipal and state governments, universities, colleges, K-12 schools and hospital/healthcare facilities, also collectively known as the MUSH market) made up 7% of total C&I program expenditures and 4% of the savings, although it should be noted that institutional sector customers can and do participate in many other types of C&I programs as well.

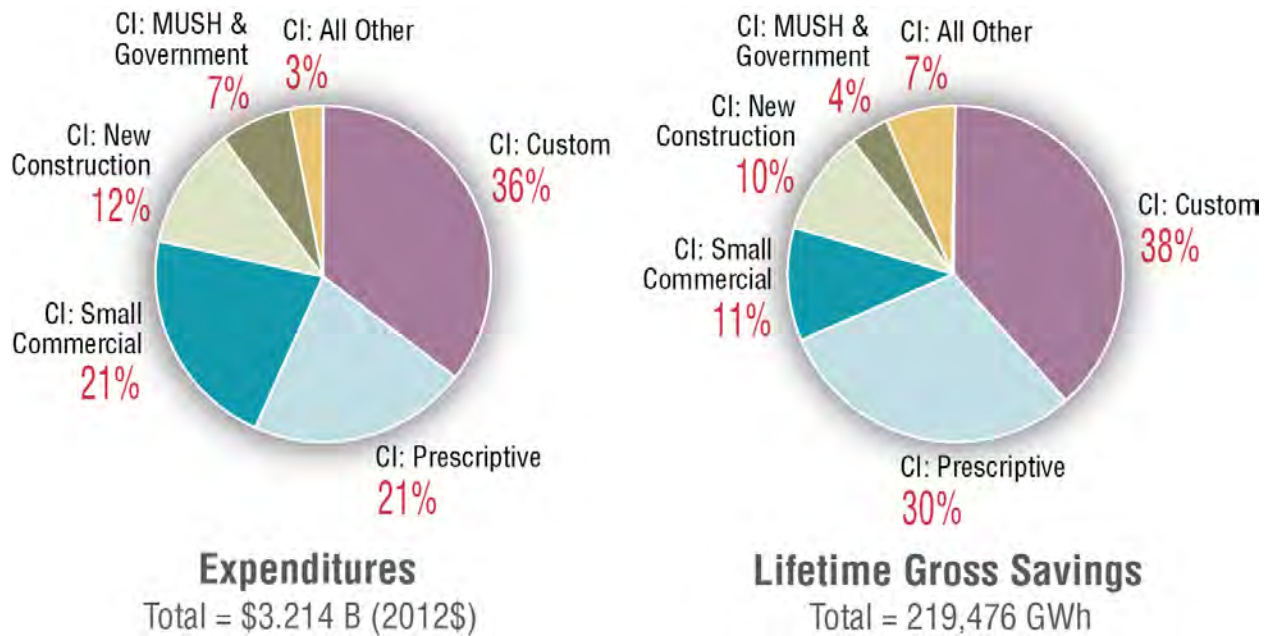


Figure 3-4. Program administrator expenditures and gross lifetime savings for 2009-2011 commercial and industrial electricity efficiency programs

We also created a region data field and coded efficiency program data provided by program administrators into the appropriate region, using U.S. Census region definitions (see Table 3-2). As can be seen from Table 3-2, we have a limited number of states (four) with program-level data from the South region as well as a relatively limited number of efficiency programs in total from southern states in the database.

Table 3-2. U.S. Census Regions and states in the LBNL DSM Program Impacts Database⁴⁹

| Region | States in the LBNL DSM Program Impacts Database |
|-----------|---|
| Midwest | MI, MN, IL, IA, OH, WI, IN |
| Northeast | PA, VT, CT, ME, NH, NY, RI, NJ, MA |
| South | MD, NC, FL, TX |
| West | CA, WA, MT, ID, OR, HI, CO, NV, UT, AZ, NM |

For the programs in the database, program administrator costs for electricity programs were highest for the West at \$2.0 billion, followed closely by the Northeast at just over \$1.9 billion.

⁴⁹ U.S. Region Definitions may be found at: http://www.census.gov/econ/census07/www/geography/regions_and_divisions.html

Program administrator expenditures totaled just under \$1 billion in the Midwest and about \$505 million in the South (see Figure 3-5).

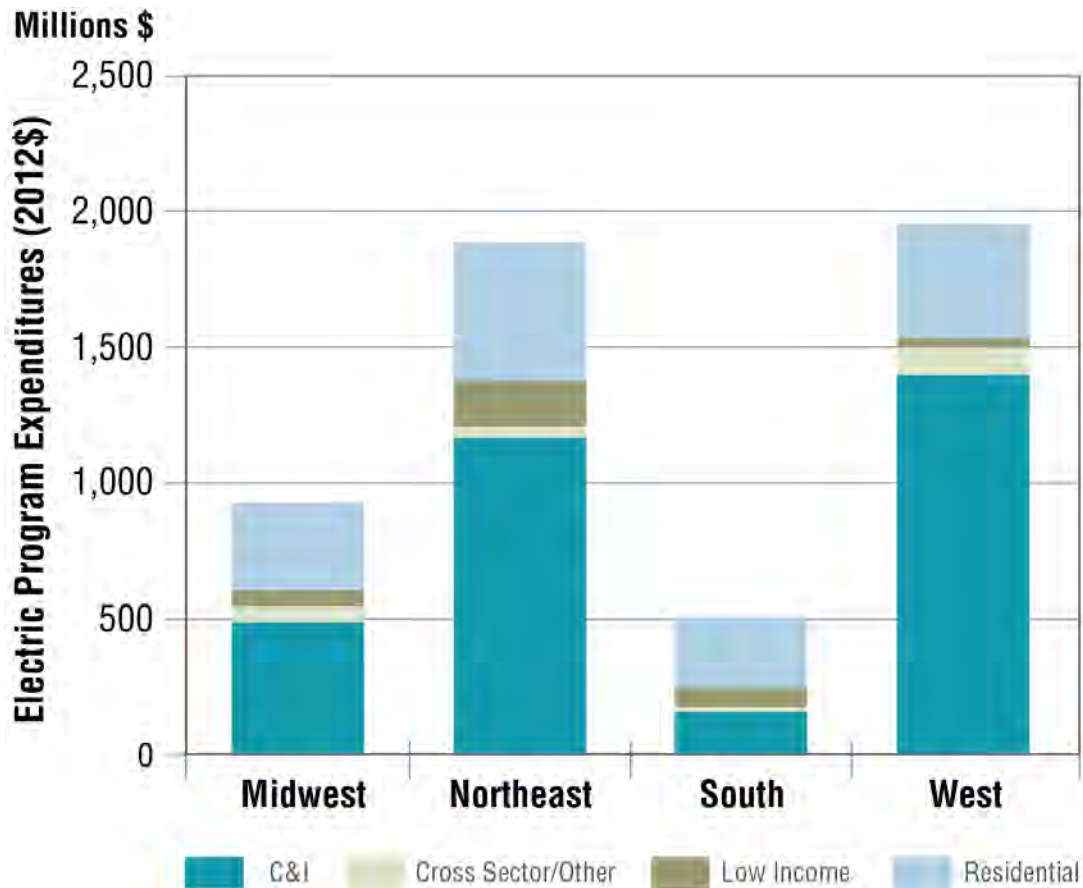


Figure 3-5. Program administrator expenditures by region for 2009-2011 electricity efficiency programs

The regional breakdown of lifetime savings for programs in the database looks much different compared to expenditures (see Figure 3-6). Program administrators in the Midwest reported about 20% more lifetime electricity savings than program administrators in the Northeast and about 75% of the savings for program administrators in the West, although expenditures in the Midwest were less than half of those in the West or Northeast.

As can be seen from Figure 3-5 and Figure 3-6, savings reported by program administrators come predominantly from the C&I sector, except for the South where residential and C&I program savings are more balanced. In the Midwest, C&I programs accounted for a little more than half of the region's total expenditures, but C&I programs accounted for nearly 70% of the savings. In the West, the expenditure and savings proportions were more comparable; C&I programs accounted for about 60% of total expenditures and about 65% of the savings, while 27% of expenditures and 21% of savings occurred in the residential sector. Low-income program expenditures were significantly higher in the Northeast than in the other regions.

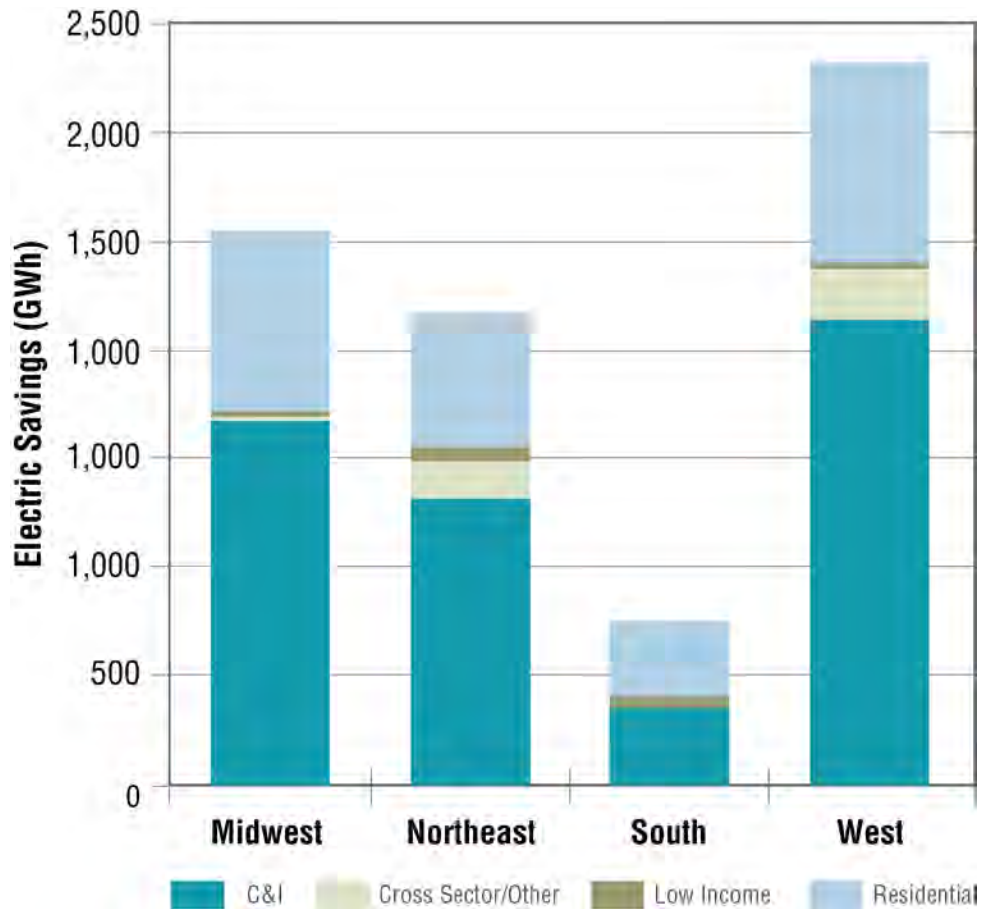


Figure 3-6. Program administrator lifetime savings by region for 2009-2011 electricity efficiency

3.1.2 Gas Program Expenditures and Savings

Program administrator expenditures for identifiable natural gas programs⁵⁰ in the LBNL DSM Program Impacts database for the years 2009–2011 totaled just under \$1.3 billion, about 20% of program administrator expenditures for electric programs (see Table 3-3). Residential programs accounted for about 60% of aggregated gas program expenditures, while C&I programs accounted for about a quarter of total program expenditures, which is the converse of spending breakdown in electric efficiency programs (i.e., C&I programs account for 60% and residential programs about 30% of total spending).

⁵⁰ Fifty program administrators reported natural gas program data.

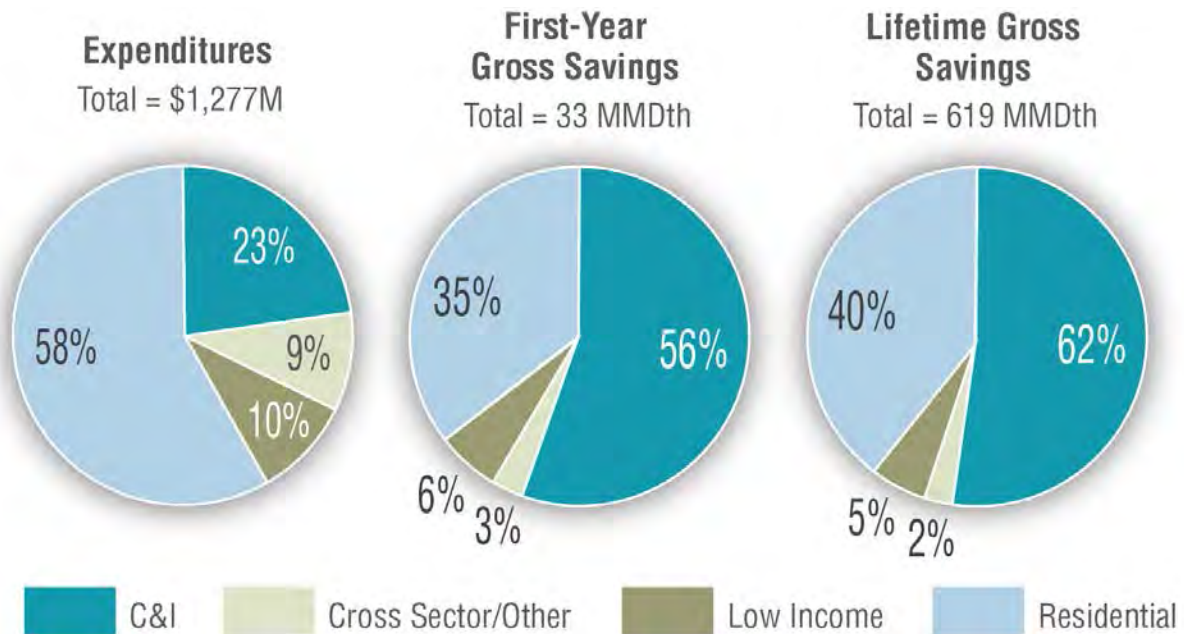


Figure 3-7. Program administrator expenditures, first-year and lifetime gross savings for 2009–2011 natural gas efficiency programs

As with the residential sector programs, we compared the share of total program administrator expenditures with the share of first-year and lifetime savings for each market sector (see Figure 3-7). Expenditures for the C&I sector accounted for about a quarter of total gas program expenditures, yet C&I programs generated more than half of total gas program savings (56% of first-year savings and 62% of the lifetime gross savings), indicating the importance of this sector for natural gas energy efficiency.

Table 3-3. Program administrator expenditures for 2009-2011 natural gas efficiency programs

| Market Sector | Share of Total Program Administrator Expenditures | Total Program Administrator Expenditures (million 2012\$) |
|--------------------|---|---|
| Residential | 58% | \$742 |
| C&I | 23% | \$291 |
| Low Income | 10% | \$123 |
| Cross Sector/Other | 9% | \$121 |
| TOTAL | 100% | \$1,277 |

On the other hand, while residential programs made up about 60% of total gas program expenditures, they garnered 35% of first-year savings and 40% of the total lifetime savings for all programs. Low income gas programs follow a similar pattern as low-income electricity efficiency programs, accounting for 10% of total expenditures and 6% of first-year and 5% lifetime savings.

3.2 Observations on the Cost of Saved Energy

3.2.1 National Observations

CSE values are presented as either (a) savings-weighted average values; (b) as an inter-quartile range with median⁵¹ values; or (c) both.⁵² The savings-weighted average CSE is calculated using all savings and expenditures at the level of analysis (e.g., region, sector, program category).⁵³ For example, the national savings-weighted average CSE for the residential sector includes all the residential program portfolio costs in the database (even for programs without reported savings) divided by all the savings reported for the residential sector; thus “weighting” the CSE of larger programs more than small programs. The inter-quartile range and median CSE values are based on calculations for each individual program; thus giving equal weighting to all programs irrespective of their relative size (either in terms of savings or costs). The inter-quartile range and median CSE values exclude programs where a CSE cannot be calculated.⁵⁴

CSE values are reported using three different metrics: a cost of lifetime saved energy, a levelized cost of energy savings using two discount rates (3% and 6% real), and a cost of first-year energy savings (see Table 2-2 for definitions of these CSE metrics). Appendix E contains detailed national and regional levelized CSE values by sector, simplified program type and detailed program type; tables in Appendix E show the savings-weighted average CSE, the first quartile, the median, and the third quartile levelized CSE values and the total number of programs for each category.

Table 3-4 shows national saving-weighted average CSE values for the identifiable electricity efficiency programs⁵⁵ in the database. Figure 3-8 depicts the lifetime and levelized CSE values (\$/kWh) by sector. The national CSE values for electricity efficiency programs rounds to approximately \$0.02/kWh for the levelized CSE using both the 3% and 6% real discount rates and a lifetime CSE (without discounting) of \$0.015/kWh.

⁵¹ The *inter-quartile range* is the middle 50 percent of the range of program CSE values. The *median* is the numerical value separating the higher half of a data sample from the lower half.

⁵² The CSE values in this section are based on *program administrator costs* and *gross energy savings*. When used, the lifetime energy savings may be based on reported values or values derived from estimates of program average measure lifetime. See Chapter 2 for a discussion of the basis for using program administrator costs and gross savings, the protocol for calculating lifetime energy savings, and discussion of the limitations in the efficiency program data used to calculate CSE values.

⁵³ We have observed that program administrators are not consistent in how they report program support costs (i.e. administration, EM&V, marketing & education, etc.). Some program administrators reported those costs at the program level, others reported those costs at the sector or portfolio level, and several reported those costs as, effectively, separate programs. For the purposes of this report, costs associated with specific programs stay associated with those programs. Costs that occur at the portfolio or sector levels are included in the analysis as separate programs. This allows us to account for those costs at the sector and portfolio levels but may appear as though individual programs within the same category cost less than their counterparts who report costs at the program level.

⁵⁴ Some programs did not report savings (e.g., education/information programs) and others were not designed to achieve savings (i.e. programmatic support programs including EM&V, marketing). Where savings are not reported, it was not possible to calculate a CSE for that particular program.

⁵⁵ Eighty-eight program administrators reported electric program data.

Table 3-4. The program administrator CSE for electricity efficiency programs by sector: national savings-weighted averages

| Sector | Levelized CSE (6% Discount) (\$/kwh) | Levelized CSE (3% Discount) (\$/kwh) | Lifetime CSE (\$/kwh) | First Year CSE (\$/kwh) |
|-------------------------------|--------------------------------------|--------------------------------------|-----------------------|-------------------------|
| Commercial & Industrial (C&I) | \$ 0.021 | \$ 0.018 | \$ 0.015 | \$ 0.188 |
| Residential | \$ 0.018 | \$ 0.016 | \$ 0.014 | \$ 0.116 |
| Low Income | \$ 0.070 | \$ 0.059 | \$ 0.049 | \$ 0.569 |
| Cross Sectoral/Other | \$ 0.017 | \$ 0.014 | \$ 0.012 | \$ 0.120 |
| National CSE | \$ 0.021 | \$ 0.018 | \$ 0.015 | \$ 0.162 |

Values in this table are based on the 2009-2011 data in the LBNL DSM Program Impacts Database. CSE values are for program administrator costs and based on gross savings. Values are savings-weighted average CSE calculated using all savings and expenditures at the level of analysis.

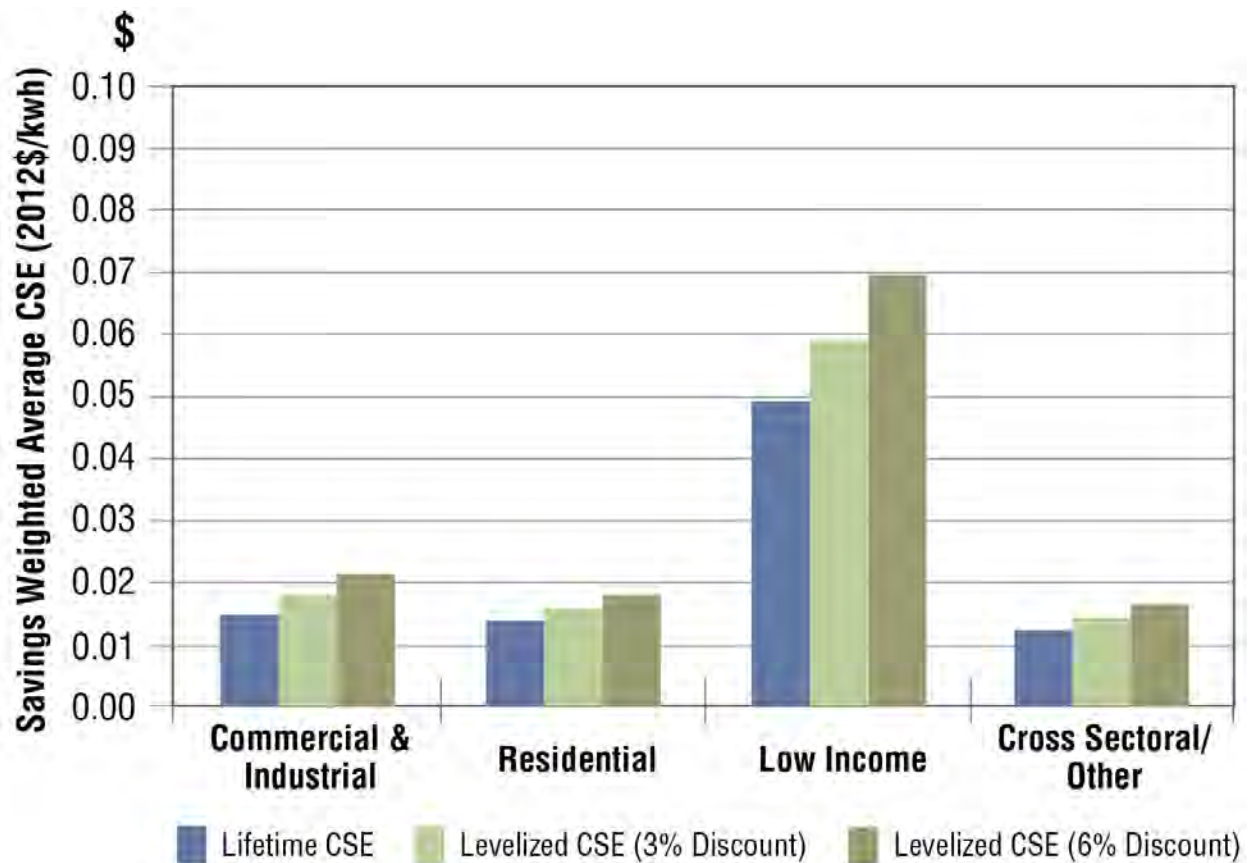


Figure 3-8. National savings-weighted average CSE for electricity efficiency programs by sector

Table 3-5 shows national saving-weighted average CSE values for the natural gas efficiency programs in the LBNL DSM Program Impacts Database. Figure 3-9 depicts the lifetime and levelized CSE values (\$/therm) for gas efficiency programs by sector.^{56,57} Gas efficiency programs targeted at C&I customers had a significantly lower CSE (\$0.17/therm; 6% discount rate) than programs targeting residential (\$0.56/therm) and low-income (\$0.59/therm) customers, indicating the importance of the C&I sector for natural gas programs.

Table 3-5. The program administrator CSE for gas efficiency programs by sector: national savings-weighted averages (\$/therm)

| Sector (Natural Gas) | Levelized CSE (6% discount) (\$/therm) | Levelized CSE (3% discount) (\$/therm) | Lifetime CSE (\$/therm) | First Year CSE (\$/therm) |
|-------------------------|--|--|----------------------------|------------------------------|
| C&I | \$ 0.17 | \$ 0.14 | \$ 0.11 | \$ 1.61 |
| Residential | \$ 0.56 | \$ 0.43 | \$ 0.32 | \$ 6.44 |
| Low Income | \$ 0.59 | \$ 0.47 | \$ 0.36 | \$ 6.26 |
| Cross Sectoral/Other | \$ 1.78 | \$ 1.55 | \$ 1.34 | \$ 12.37 |
| National CSE | \$ 0.38 | \$ 0.31 | \$ 0.24 | \$ 3.93 |

Values in this table are based on the 2009-2011 data in the LBNL DSM Program Impacts Database. CSE values are for program administrator costs and based on gross savings. Values are savings-weighted average CSE calculated using all savings and expenditures at the level of analysis.

⁵⁶ Fifty program administrators reported natural gas program data.

⁵⁷ There are a number of combined fuel programs that have reported interactive effects on natural gas. These impacts are not included in program level CSE calculations; however, they are included in portfolio and sector level calculations.

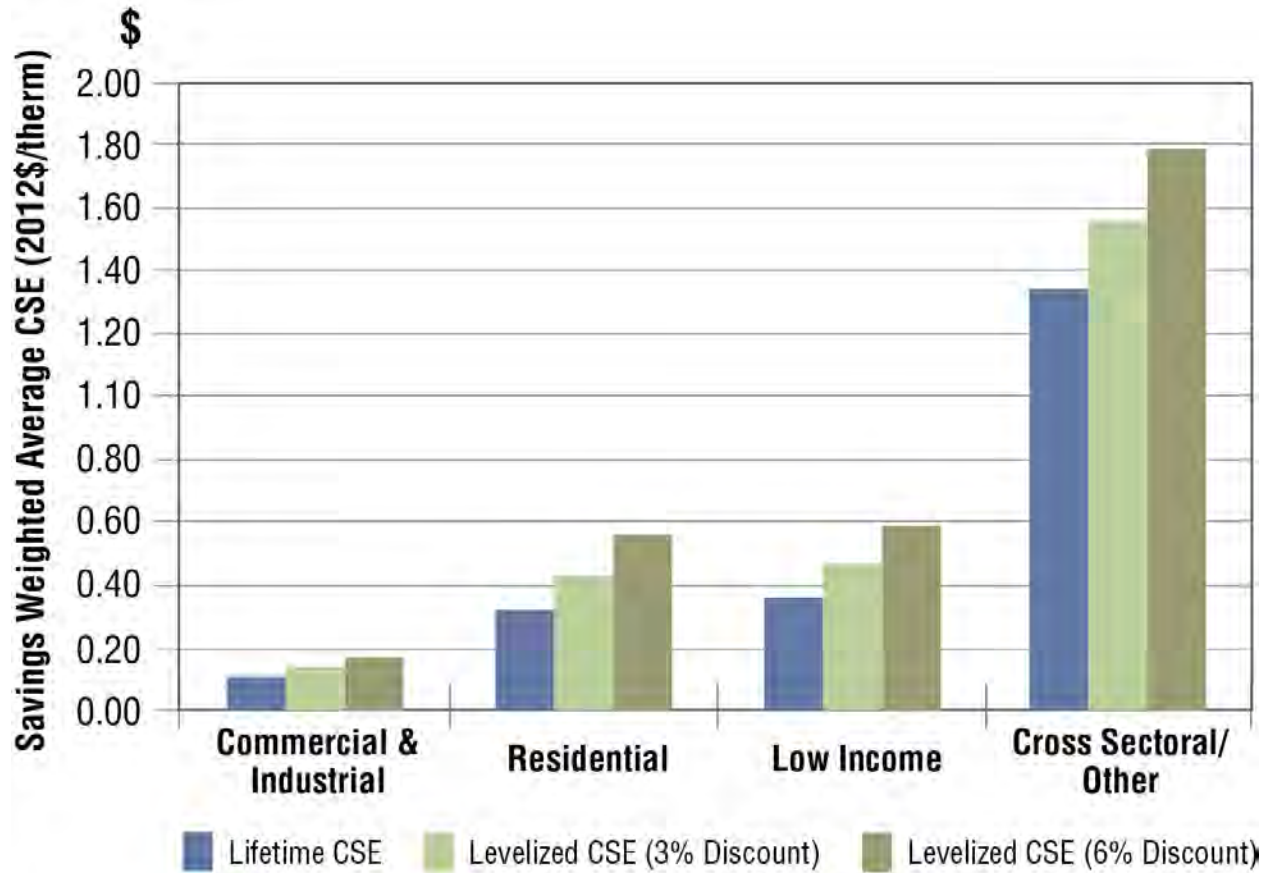


Figure 3-9. CSE for natural gas efficiency programs by sector

3.2.2 Sector and Program Level Observations for Electricity Efficiency Programs

We present CSE values at the sector and program level in this section. For simplicity, the remainder of this chapter presents CSE values using the levelized CSE for a 6% (real) discount rate (except where otherwise indicated).⁵⁸

Figure 3-10 presents the levelized CSE results on a national basis, depicting the savings-weighted average, median and inter-quartile range for each sector. We found that both C&I and residential electricity efficiency programs included in our database had an average levelized CSE of about \$0.02/kWh. Looking at these sectors in more detail shows that the residential sector had a slightly lower weighted-average CSE than the commercial sector but a higher median CSE (~\$0.04/kWh). The CSE values for residential sector programs also had a larger inter-quartile range than commercial sector programs (e.g., inter-quartile range of CSE values ran from just

⁵⁸ We use a levelized CSE because we believe it is technically more appropriate for comparing resources. The 6% real discount rate is representative of a typical utility cost of capital. Lower discount rates result in lower CSE values. For example, for a program with an average measure life of 10 years for installed measures, a 6% discount rate results in a CSE that is about 15% higher than a 3% discount rate. There is significant interaction between discount rates and assumed measure lives. For example, the CSE value is 50% lower if we assume a 10 year measure life and 6% discount rate compared to a 20 year measure life and a 3% discount rate. See Appendix D for additional discussion of this issue.

under \$0.02 to \$0.09/kWh for residential programs vs. \$0.015 to \$0.05/kWh for commercial programs). We suspect that this is due to the very wide range of program types in the residential sector.

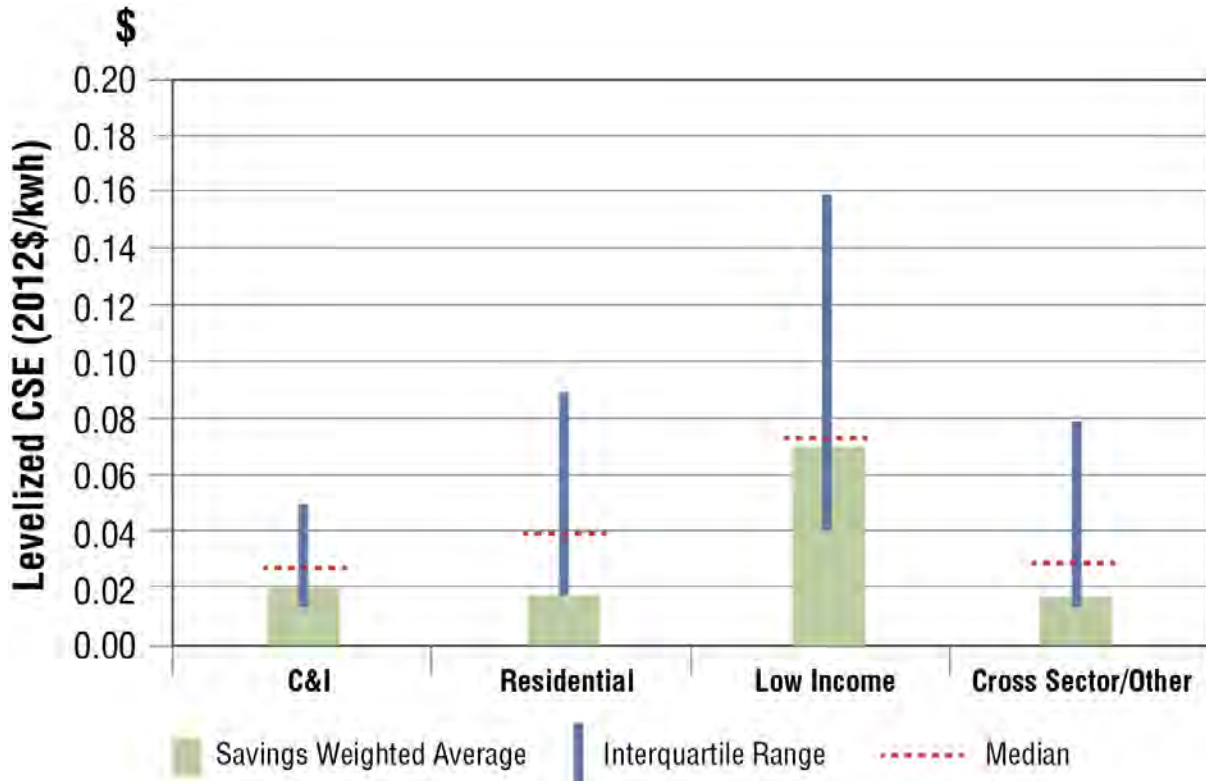


Figure 3-10. National levelized CSE for electricity efficiency programs by sector

Low-income programs have much higher savings-weighted average and median values for the program administrator CSE (on the order of \$0.07 to \$0.08/kWh). Low-income programs typically have a higher program administrator CSE for several reasons. Most notably, these programs are designed to achieve specific social policy objectives in addition to energy resource acquisition goals. These programs can include a variety of health and safety actions (correct structural issues, window replacement, mold removal, etc.) that need to be completed prior to completing any efficiency upgrades, adding to the program costs. Finally, low-income programs are often delivered at little or no cost to participants; thus the CSE for low-income programs is more comparable to an all-in or total resource cost perspective (i.e., including both program administrator and participant costs).

The cross sector/other program category, illustrated in Figure 3-10, is quite broad and includes a diverse mix of program types (e.g., equipment rebate programs that include both residential and non-residential customers, workforce development and training programs). Thus, at a high level, it is difficult to draw conclusions for the sample of programs included in this category.

At a national level, we observe a wide variation in CSE values for programs in most sectors (e.g., CSE values for programs in a sector have an inter-quartile range that varies by a factor of three to five). We also find that the savings-weighted average CSE was typically lower than the median value for CSE for a sector or program category (see Figure 3-11 and Figure 3-12). This suggests

that much of the savings for each sector is coming from programs or program types on the low end of the CSE range for that program or sector.

Figure 3-11 and Figure 3-12 show levelized CSE values for the simplified program categories for C&I and residential sectors, respectively.⁵⁹

The simplified C&I program categories had median values for the program administrator’s CSE that range from \$0.01/kWh to \$0.05/kWh. It is worth noting that the savings-weighted average CSE for custom and prescriptive rebate program categories were \$0.018/kWh and \$0.015/kWh, respectively. Since these two program categories accounted for almost 70% of C&I sector savings (see Figure 3-4), they tended to drive the overall CSE results for the C&I sector: program administrators had an average levelized CSE of less than \$0.02/kWh in the C&I sector. The C&I programs (Figure 3-11) also had a relatively smaller inter-quartile range of CSE values compared to the residential program categories (Figure 3-12).

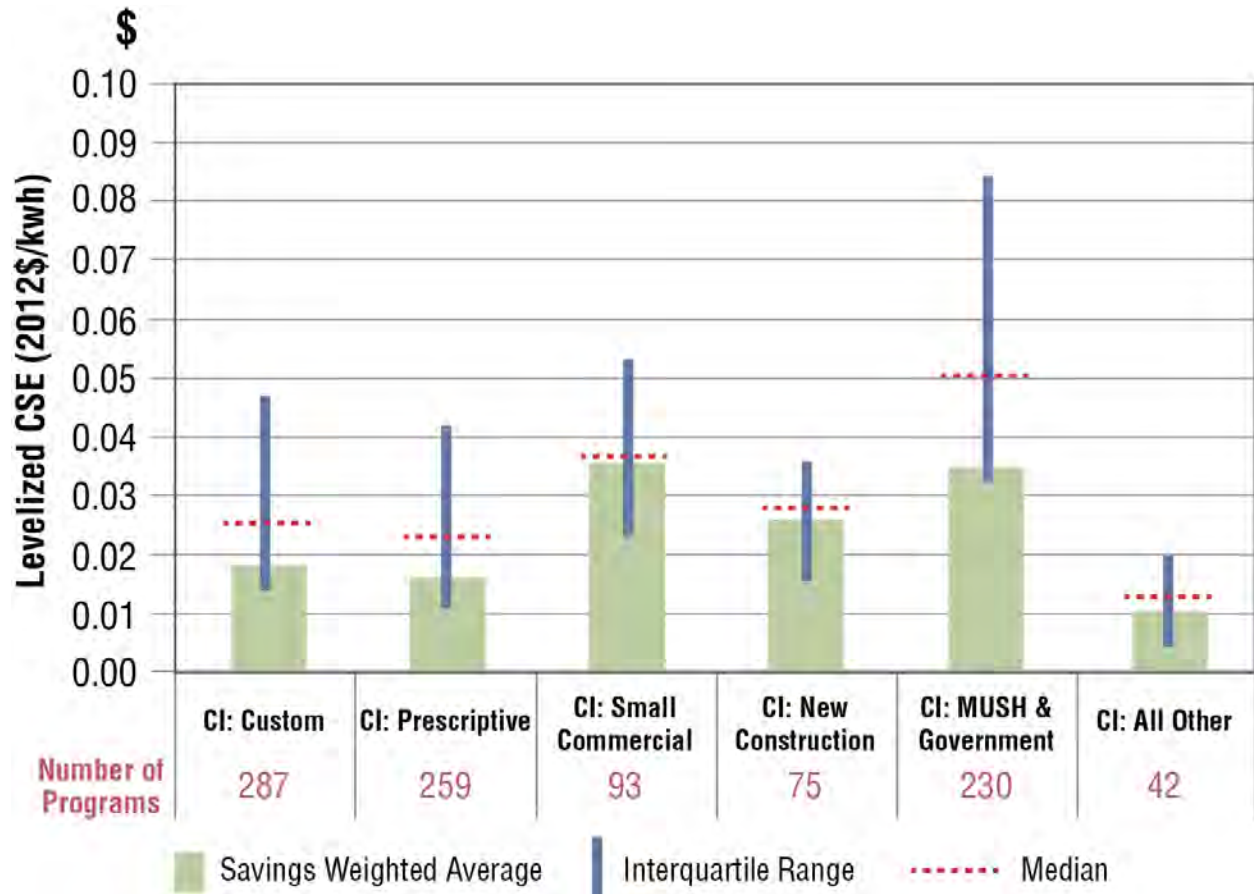


Figure 3-11. National levelized CSE for commercial and industrial sector simplified program categories

⁵⁹ Note that the y-axis scales for CSE are different in Figures 3-11 and 3-12, illustrating differences in the range of CSE values in C&I and residential sector programs.

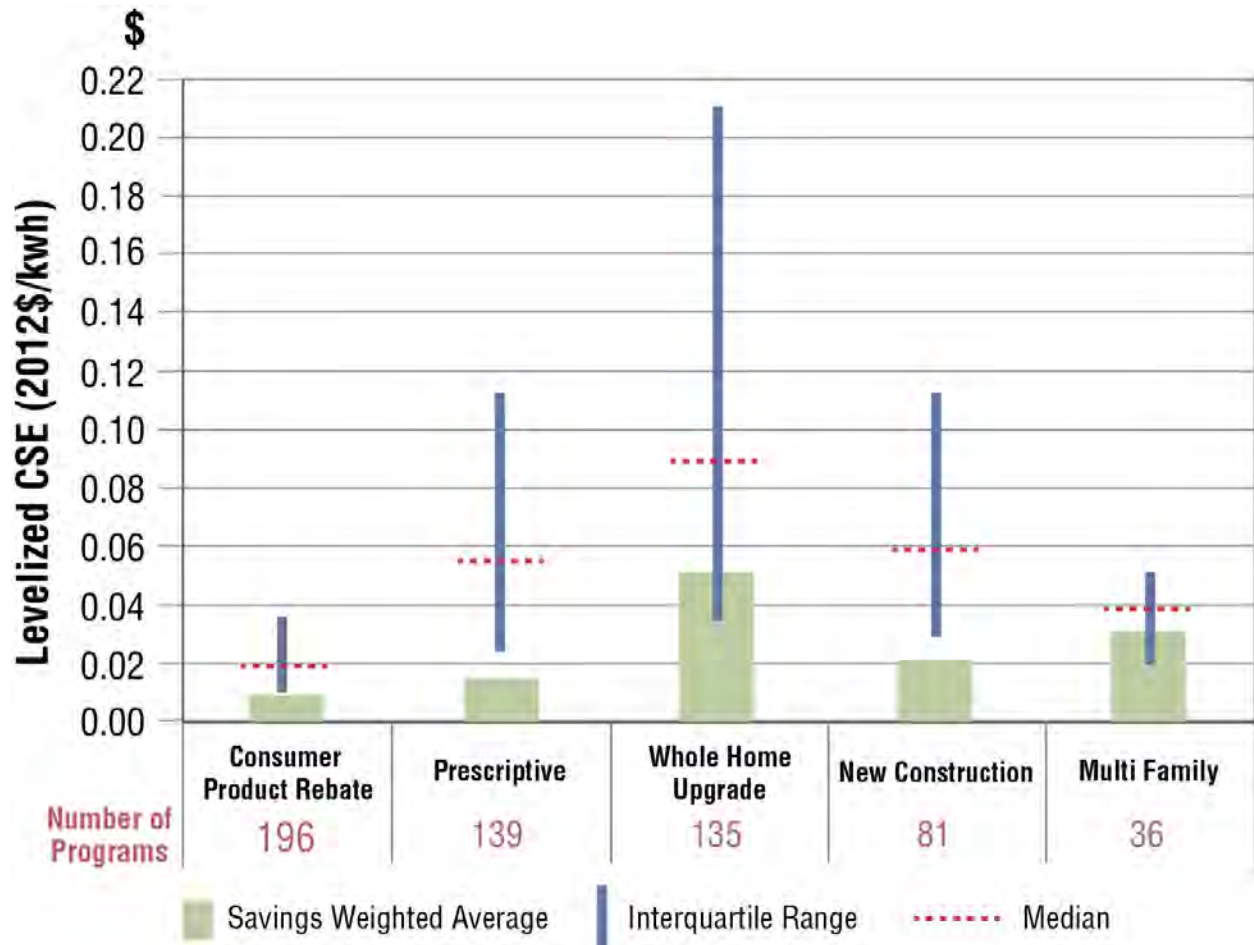


Figure 3-12. National levelized CSE for residential sector simplified program categories

For the residential programs, several program categories had a relatively tight range of program administrator CSE values. For example, Consumer Product Rebate programs had an interquartile range of \$0.01/kWh to nearly \$0.04/kWh and a low savings-weighted average (~\$0.01/kWh). However, the Residential Prescriptive (\$0.03/kWh to \$0.11/kWh), New Construction (\$0.03/kWh to \$0.11/kWh) and Whole-Home Upgrade (slightly more than \$0.03/kWh to \$0.21/kWh) program types had significantly larger ranges. There are several possible reasons for the larger range of CSE values in each of these program categories. The prescriptive simplified program category includes detailed program types that implement a wide variety of measures (e.g., HVAC, insulation, windows, pool pumps) as well as some generic “prescriptive” programs⁶⁰ that often include measures also found in the Consumer Product Rebate category. This broad measure mix and the variation in costs and measure lifetimes associated with those measures are possible drivers for the wide range of CSE values for the prescriptive category.

⁶⁰ Some programs include all their rebated measures under the same program title and it is not possible to determine where the majority of the savings is coming from. In these cases, the programs were categorized as “Residential Prescriptive.”

For the Whole-Home Upgrade program category, the broad range of program designs and delivery mechanisms (this category includes audit, direct install, and retrofit/upgrade programs) may help explain the relatively wide range of CSE values. Figure 3-13⁶¹ shows program administrator CSE values for detailed program categories under the Whole-Home Upgrade program category. We observe that the inter-quartile range of CSE values for both direct install and whole-home upgrade programs ranged from about \$0.03/kWh to about \$0.26/kWh, with median values of \$0.06/kWh and \$0.12/kWh, respectively. Whole home audit programs have a much smaller inter-quartile range, from \$0.03/kWh to \$0.11/kWh, and a median value of \$0.07/kWh.

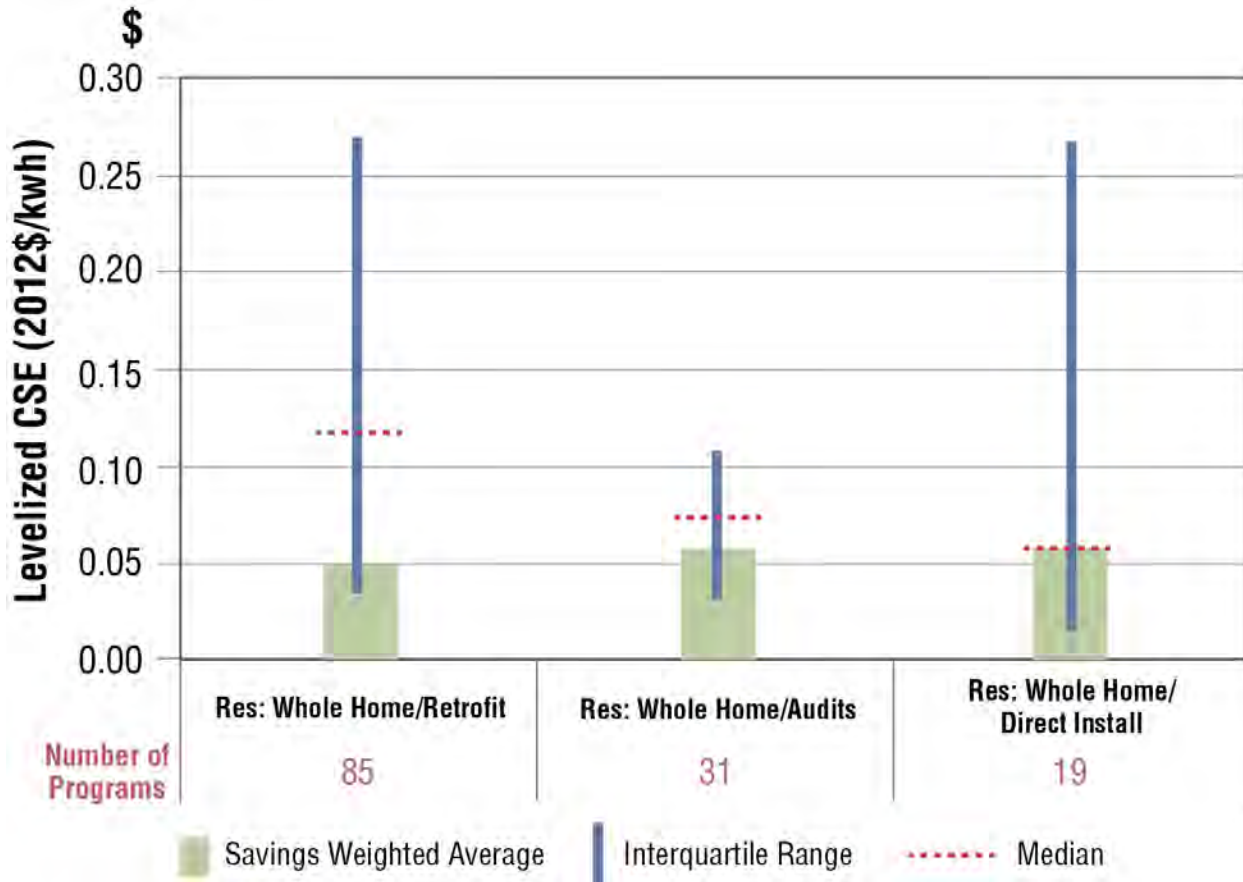


Figure 3-13. National levelized CSE for residential whole home detailed program category

Recall that about 44% of the residential sector lifetime gross savings came from lighting rebate programs that are part of the Consumer Product Rebate simplified program category (see Figure 3-13). Thus, we took a closer look at the CSE results for the four detailed program types within this category (see Figure 3-14).

The median and average levelized CSE values for lighting rebate programs were quite low (about \$0.01/kWh) with a small inter-quartile range (see Figure 3-14). Future investigation of these programs' CSE values, savings estimates, and drivers is probably warranted given that a

⁶¹ Note that the y-axis scale in Figure 3-13 has higher CSE values than other figures in this chapter.

large percentage of savings came from lighting measures and that lighting CSE may rise as baselines (and thus perhaps savings) are lowered for many of these measures given implementation of more aggressive lighting equipment standards.

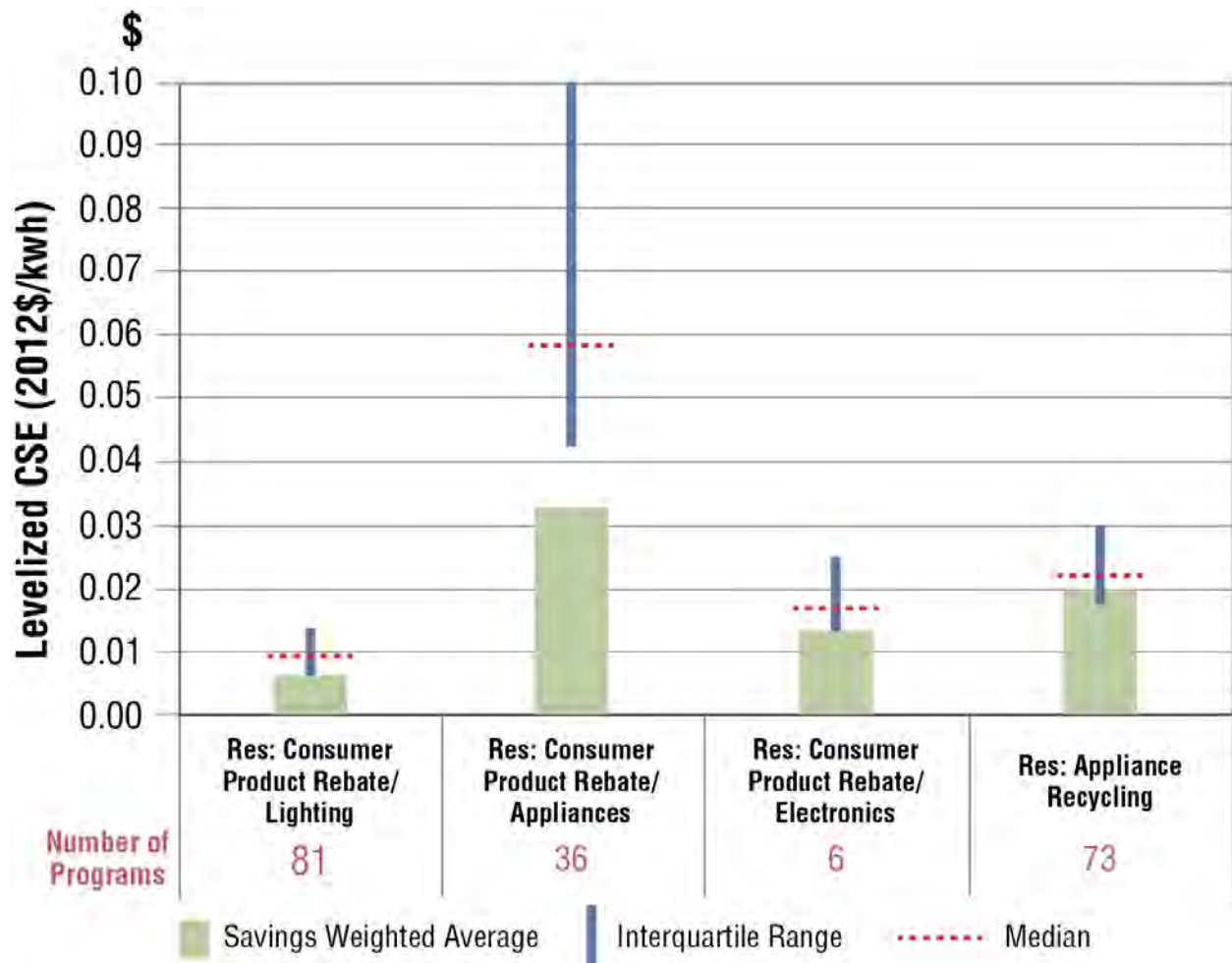


Figure 3-14. National levelized CSE for residential consumer product rebate detailed program categories

3.2.3 Regional Observations in Electricity Efficiency Programs

In this section, we examine some of the potential underlying drivers of CSE, including region (i.e., geographic location), climate, and baseline building efficiency requirements. Figure 3-15 presents regional CSE values for programs in the database (see Table 3-2 for assignment of states to region).

Across all programs, the savings-weighted average CSE (\$0.014/kWh) and median CSE (\$0.019/kWh) values were lowest in the Midwest. This is consistent with the information in Figure 3-5 and Figure 3-6, which shows that program administrators in the Midwest in aggregate reported relatively low expenditures and relatively high savings (compared to other regions). Possible explanations for this phenomenon include the relative “newness” of the Midwest energy

efficiency programs and savings targets. Most of the states in this region enacted their first EERS targets in the late 2000s (Barbose et al. 2013). As a result, most of these states are perhaps still able to achieve significant savings from programs targeting low cost measures (i.e., lighting rebate programs). Another possible explanation is that gross savings values and/or measure lifetimes are higher because of baseline conditions or because EM&V practices are less mature in some states.

In contrast, many states in the Northeast region have consistently been running efficiency programs for many years, have much higher savings targets (e.g., “all cost effective” efficiency mandates) and relatively well established and rigorous savings evaluation requirements. In aggregate, program administrators in the Northeast have a higher savings-weighted CSE (\$0.033/kWh) and a much wider range of CSE values among types of programs, which possibly indicates that there was a broader mix of program designs and delivery mechanisms, as well as desire to achieve more comprehensive savings driven by state policy objectives (e.g., regulatory decisions or legislation that directs program administrators to achieve all cost-effective efficiency).

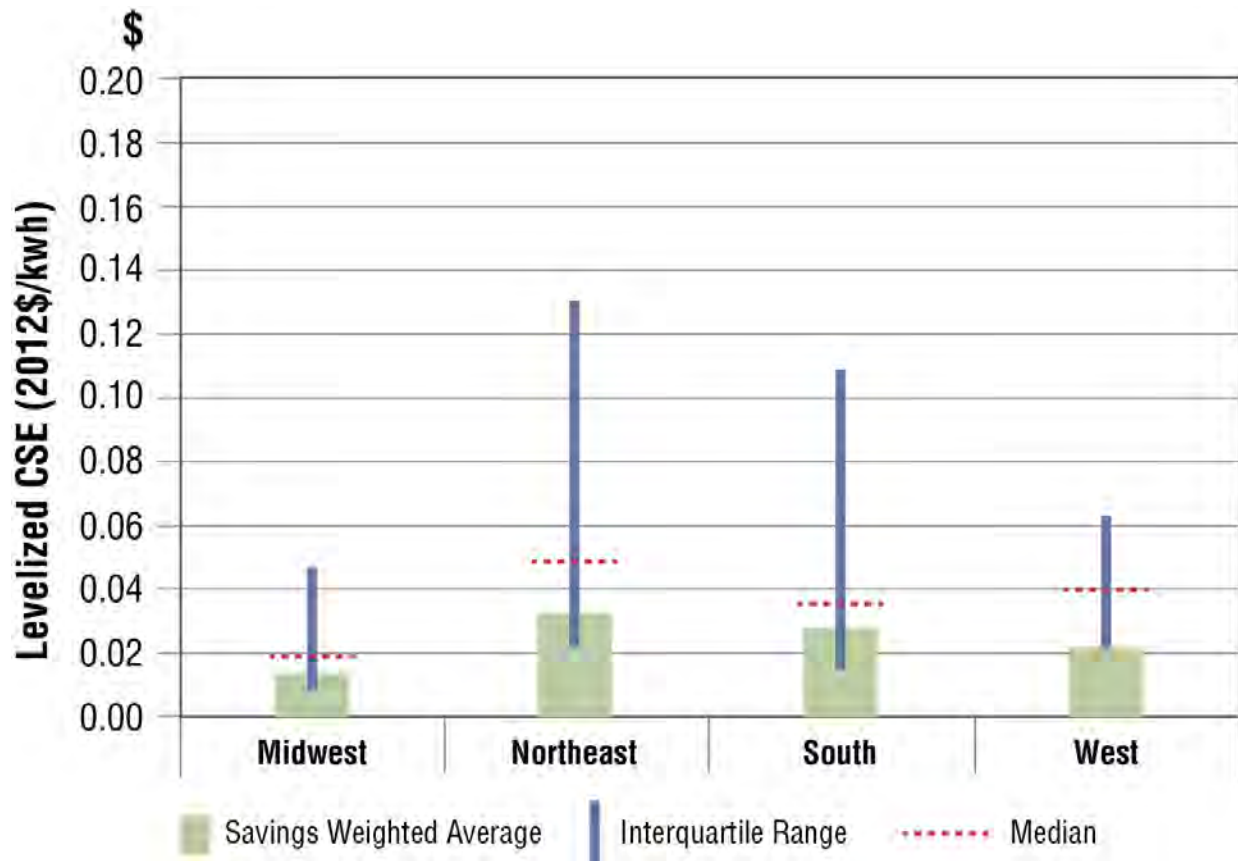


Figure 3-15. Levelized CSE for electricity efficiency programs by region

We also looked at average CSE values for all C&I and residential programs (excluding low-income programs) among program administrators in states (see Figure 3-16). Low-income programs were excluded for several reasons: (1) not all states either offer or reported information on their low-income programs; (2) the policy rationale(s) for low-income efficiency programs

differs among states: some states require low-income programs to pass cost-effectiveness screening tests while other states use multiple criteria to assess budgets and design of low-income programs (e.g., equity reasons, cost-effectiveness); and (3) the scale of low-income programs varies significantly among states. Thus, including low-income program data has the potential to skew state by state observations in CSE.

With several exceptions, we observe some clustering of average CSE values for efficiency programs for states in a region (see Figure 3-16) with several exceptions (e.g., FL, PA, NJ). It is worth noting that Massachusetts and Vermont have all cost-effective efficiency mandates and both of those states had a savings-weighted average CSE over \$0.04. Conversely, Pennsylvania has many characteristics that are typical of other states in the Midwest (e.g., relatively new efficiency programs, similar climate, economies) and had an average savings-weighted CSE more similar to program administrators in the Midwest than the Northeast. At this time, we cannot definitively explain the higher savings-weighted average CSE for program administrators in Florida.

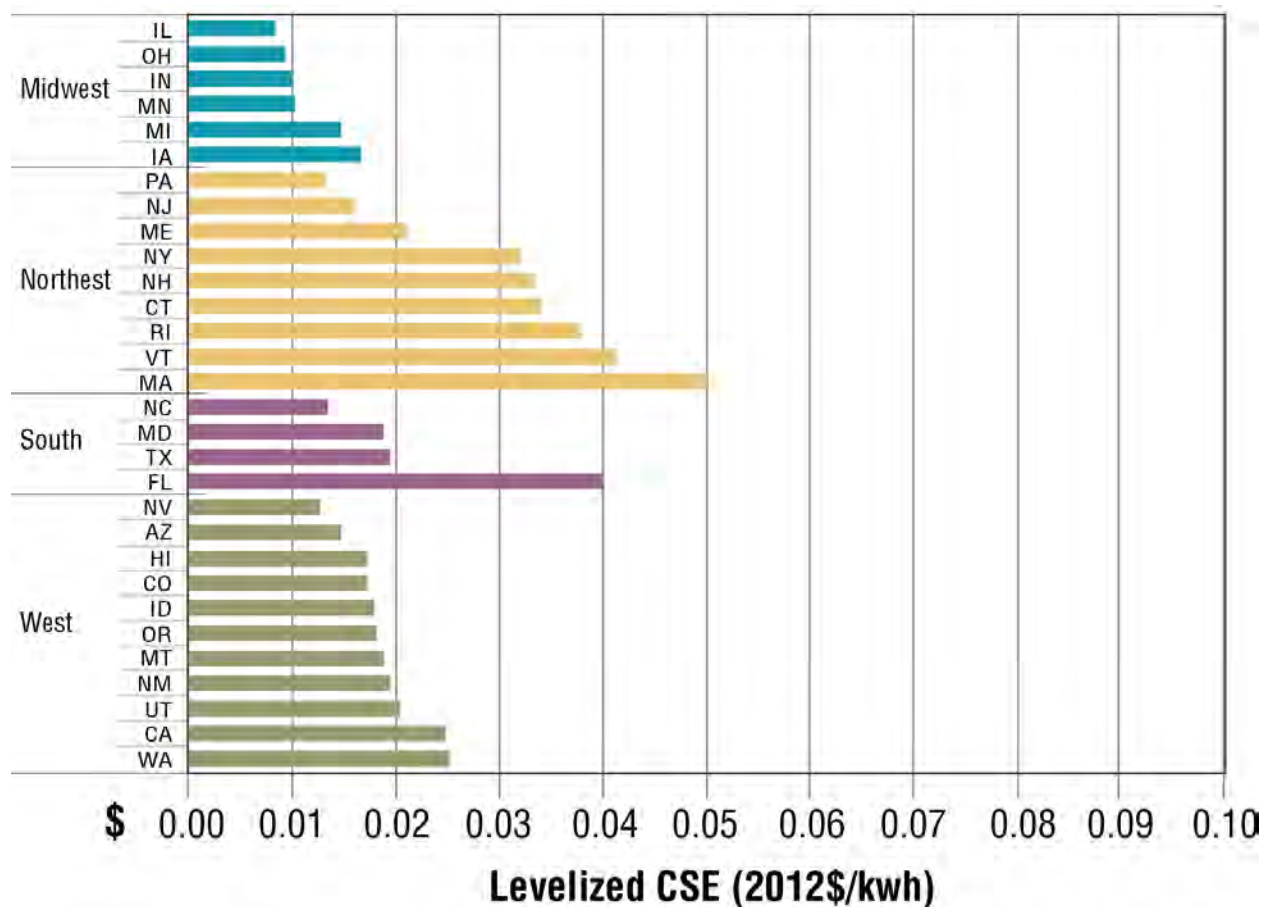


Figure 3-16. CSE values by state for electricity efficiency programs (excluding low-income programs)

A number of factors may influence the observed variation in the program-level CSE, including those that program administrators can influence (e.g., how program administrators report program costs, program design, incentive levels, and measure mix) and those largely outside of program administrator control (e.g., climate, area labor rates, building stock, regulatory requirements). We conducted exploratory analysis that examined two potential factors that may influence program-level CSE values: climate and building codes. First, we calculated the percentage of each region’s lifetime gross savings by savings-weighted program administrator CSE and climate zone for all program categories in the database (see Figure 3-16). The size of the bubbles in Figure 3-17 represents the percentage of the total regional lifetime savings that falls within the respective climate zone in which the program was administered. For example, for the West, there are more savings in the database in the warm climate zone that includes much of California.

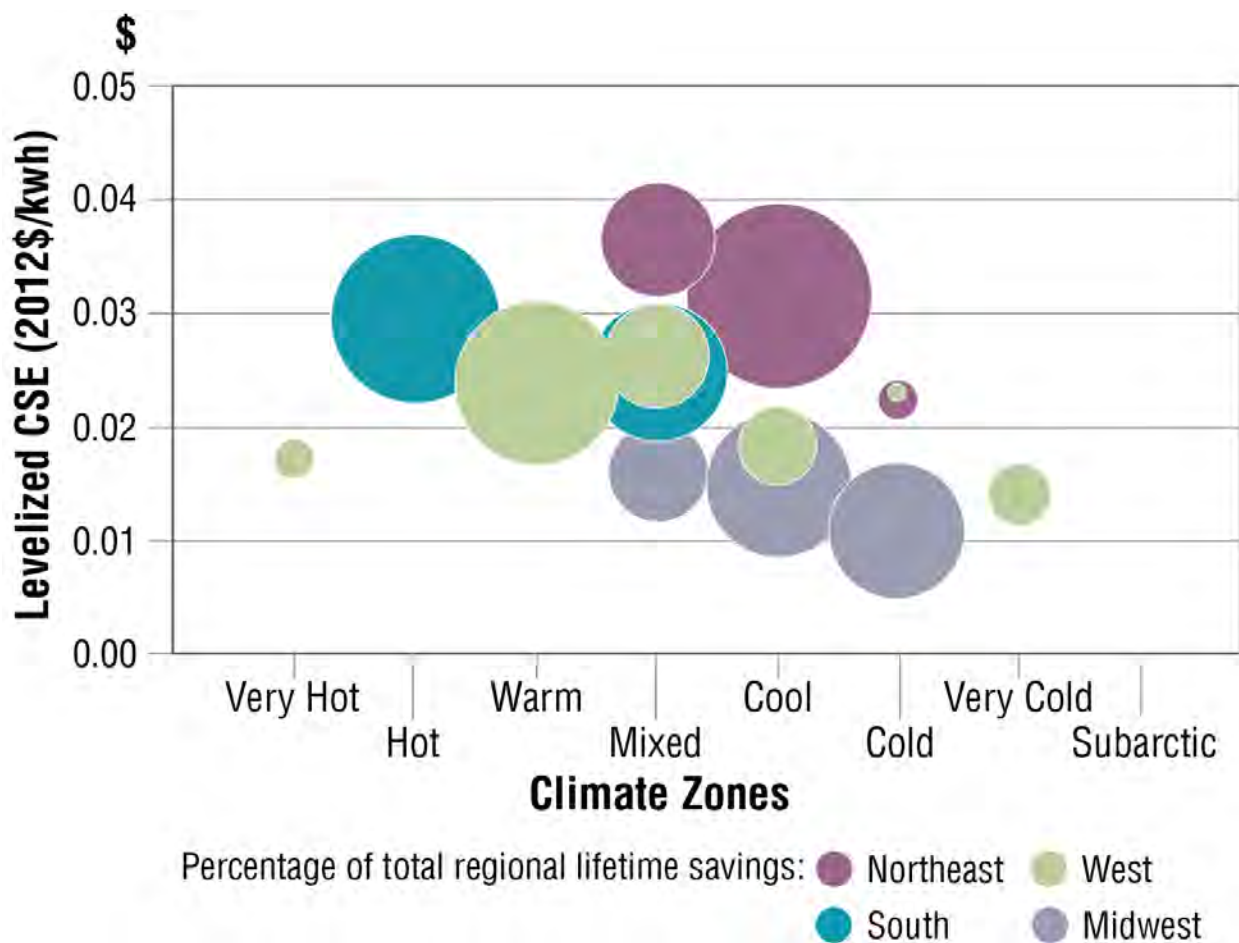


Figure 3-17. Percent of regional lifetime savings by climate zone and levelized CSE for electricity efficiency programs⁶²

⁶² States were assigned to climate zones adopted for the International Energy Conservation Code (IECC), in which the climate zones are delineated geographically as regions defined by certain historical averages for temperature, humidity and precipitation. A single zone was assigned to each state based on where the majority of the state's population—and presumably load—is concentrated. This method is imperfect but useful as a proof-of-concept test for an approximate relationship with levelized CSE. A description for the climate zones was adapted from the

In each region, we observe a pattern that as the climate gets cooler, the savings-weighted average CSE decreases for electricity efficiency programs. However, we also see that the savings-weighted average CSE varied significantly within a climate zone (see mixed and cool). Had climate been a significant driver for CSE, we would expect to see more agreement on the CSE by climate zone, even in different regions. This indicates that there are probably other factors that have more impact on the regional CSEs than climate zone. Additional analyses may be required to focus only on program types with climate dependent measures (e.g., cooling and heating system retrofits) or conduct more detailed analysis of participant costs and incentives which can vary by climate zone as cost effectiveness varies (e.g., a cooling system retrofit would be more cost-effective in a very hot climate than a cool one, possibly justifying higher incentives, but also perhaps not requiring them since the participant benefit to cost ratio would also be higher).

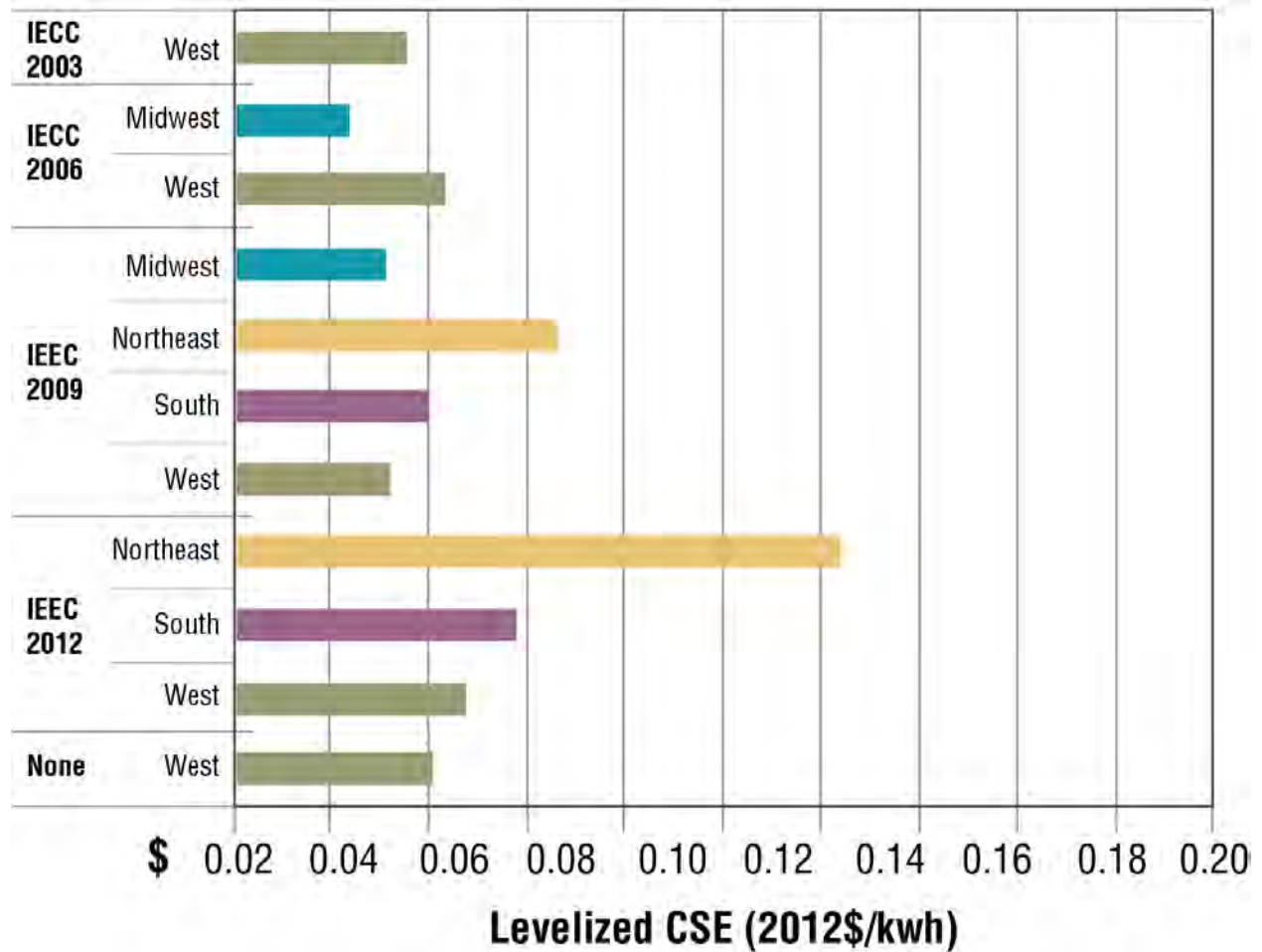


Figure 3-18. Levelized CSE for residential new construction programs compared to residential building energy codes adopted by states in each region⁶³

Building America discussion of IECC and Building America climate zones found here: http://apps1.eere.energy.gov/buildings/publications/pdfs/building_america/ba_climateguide_7_1.pdf

⁶³ U.S. DOE. 2013. Building Energy Codes Program. Washington, DC. Accessed at: <http://www.energycodes.gov/status-state-energy-code-adoption> in September 2013.

Another potential influence on CSE values is differences in baseline building efficiency across states and regions. In Figure 3-18 and Figure 3-19, we examine the savings-weighted average CSE for new construction programs in the residential and commercial sectors, respectively. For the residential programs, we calculate the savings-weighted average electric levelized CSE for new construction programs in each region plotted against each state’s current International Energy Conservation Code (IECC) status.^{64,65} The newer the adopted code, the lower the assumed baseline energy consumption, which tends to reduce the incremental electricity savings for any given efficiency action. For example, the gross savings calculated for a fixed set of measures for a building than meets the 2006 IECC code would be greater than for the same set of measures for a building that meets the 2012 IECC code. Note that the West, as a region, has the most diversity among states in terms of building energy code requirements.

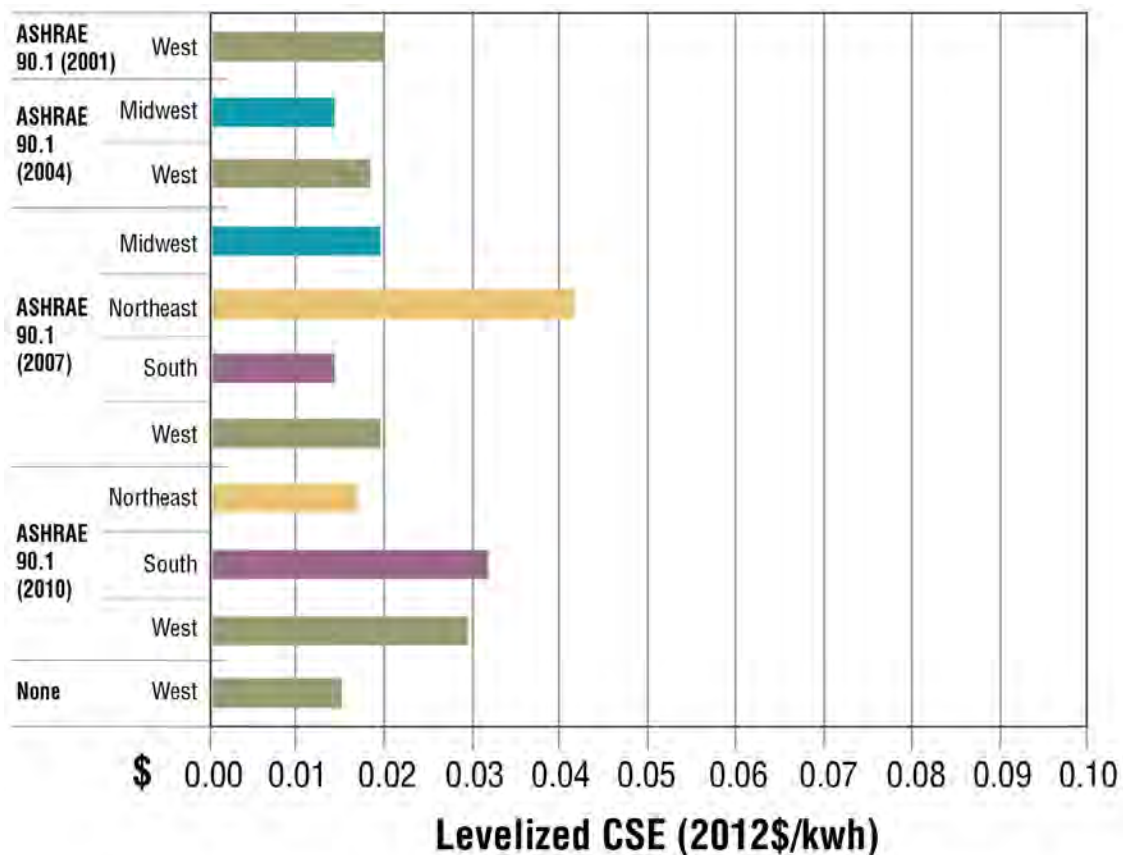


Figure 3-19. Regional levelized CSEs for commercial new construction programs compared to commercial building energy codes adopted by states in each region⁶⁶

⁶⁴ The IECC (<http://www.iccsafe.org/gr/Pages/IECC-Resource.aspx>) is a national model energy code for the United States. It sets minimum requirements for energy efficiency that new buildings—as well as additions and renovations to existing buildings—must meet wherever the code has been adopted into law, usually on state-by-state basis. The IECC is updated on a 3-year cycle, and the most recent version is 2012.

⁶⁵ By using current (2103) IECC code adoption status, we do not directly reflect the baseline status at time of program implementation (2009-2011). However, we expect that this approach may still be indicative of relative baseline status while not requiring state-by-state, year-by-year analysis of code status.

⁶⁶ U.S. DOE. 2013. Building Energy Codes Program. Washington, DC. Accessed at: <http://www.energycodes.gov/status-state-energy-code-adoption> in September 2013.

It might be reasonable to expect that the CSE would increase as the codes for new buildings set more stringent baseline efficiency requirements (e.g., incremental savings opportunities are less for any given investment). Some evidence for this pattern can be observed in the average CSE values for Midwest, Northeast and South residential programs segmented by the year of the building energy codes. However, the expected pattern in average CSE values does not readily emerge for states in the West that offer residential new construction programs.

The picture is even less clear when looking at the savings-weighted CSE for commercial new construction programs plotted against commercial codes (see Figure 3-19). CSE values do not follow the expected pattern for states in either the West or Midwest. The savings-weighted average CSE values for states in the Northeast seems to have been lower where more stringent codes exist, although there are a limited range of code requirements among states in the Northeast. Thus, the effects of code status on CSE values require further inquiry.

3.2.4 Sensitivity Analysis: Impact of Measure Lifetime

In Chapter 2, we discussed data gaps and inconsistent criteria for reporting lifetime energy savings (and by extension efficiency measure lifetimes), noting that lifetime savings (or program average measure lifetime) were not reported for about 50% of the program years in the database.⁶⁷ In this section, we illustrate and discuss results of a sensitivity analysis that explores the impact of varying assumptions regarding program measure lifetime on CSE values reported by program administrators.

Figure 3-20 compares the “LBNL approach” used to estimate lifetime savings for those programs that did not report this information to two other potential approaches in which we apply the minimum and maximum reported program average lifetimes for each detailed program type to all programs of that type.

The minimum and maximum values for each program type (see the light and dark green bars in Figure 3-20) dramatize the impact on levelized CSE values of varying assumptions for the average measure lifetime of efficiency programs. For five of the 12 reported program categories, if we use the minimum reported program average lifetime (and apply it to all other programs in that category), the levelized CSE values more than doubles compared to the CSE values using the LBNL measure lifetime approach. This underscores the importance of understanding and accurately reporting the average measure lifetime of measures installed in programs since it significantly impacts the cost of saved energy (and the underlying cost-effectiveness of efficiency actions).

⁶⁷ For those programs, we calculated a program-average measure lifetime by detailed program category and applied those values to the reported gross first-year savings to calculate lifetime savings.

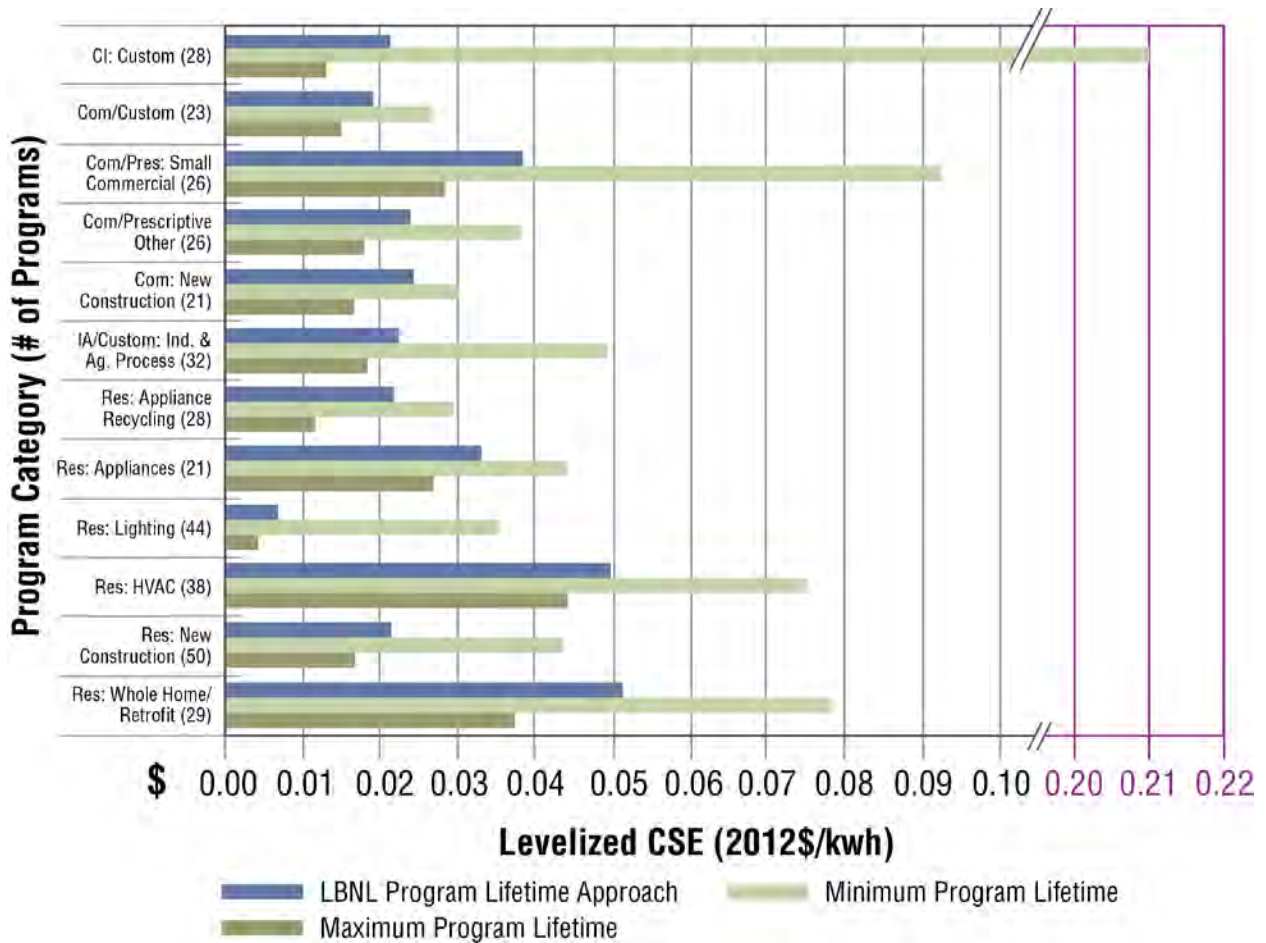


Figure 3-20. Impact of different program average measure lifetime assumptions on the levelized CSE for electricity efficiency programs

3.2.5 Program Administrator and Participant Cost Analysis: The Total Resource Cost of Saved Energy

This study focuses primarily on the program administrator CSE because participant costs were not consistently reported. We collected participant costs at the program level when reported, although this information was available for only 265 electric programs years (less than 10% of the programs in the database) in 11 states.⁶⁸ When reported, participant costs are subject to at least two additional sources of uncertainty: (1) whether the participant costs are based upon full program measure costs or incremental program measure costs; and (2) whether participant costs are based upon customer receipts and/or supplier invoices (i.e., actual participants paid those full costs) or whether incremental participant costs are based upon deemed values drawn from various sources (e.g., supplier surveys).

⁶⁸ In some of the 11 states, participant costs are only reported for select programs and not the entire portfolio.

Given small sample size and uncertain reporting of participant costs, it is difficult to assess the “all-in” or total resource cost of efficiency or analyze potential influences on the total cost of the efficiency resource. For these reasons, in Figure 3-21, we compare the program administrator’s levelized CSE vs. a total resource CSE for illustrative purposes only. We calculate this total resource CSE for the simplified program categories where both program administrator and participant costs were available for more than 18 program years.⁶⁹

For the small sample of programs, we found that the levelized total resource CSE values are typically double for most program types with the exception of the Residential Whole Home Upgrade program category (where the total resource CSE is about 25%–30% higher than the program administrator CSE). Further data collection and analyses could help understand how the ratio of program administrator to participant costs varies as a function of sector, measure types, and market maturity; and how incentives and direct support might be optimized to pay no more than is necessary to meet efficiency uptake objectives.

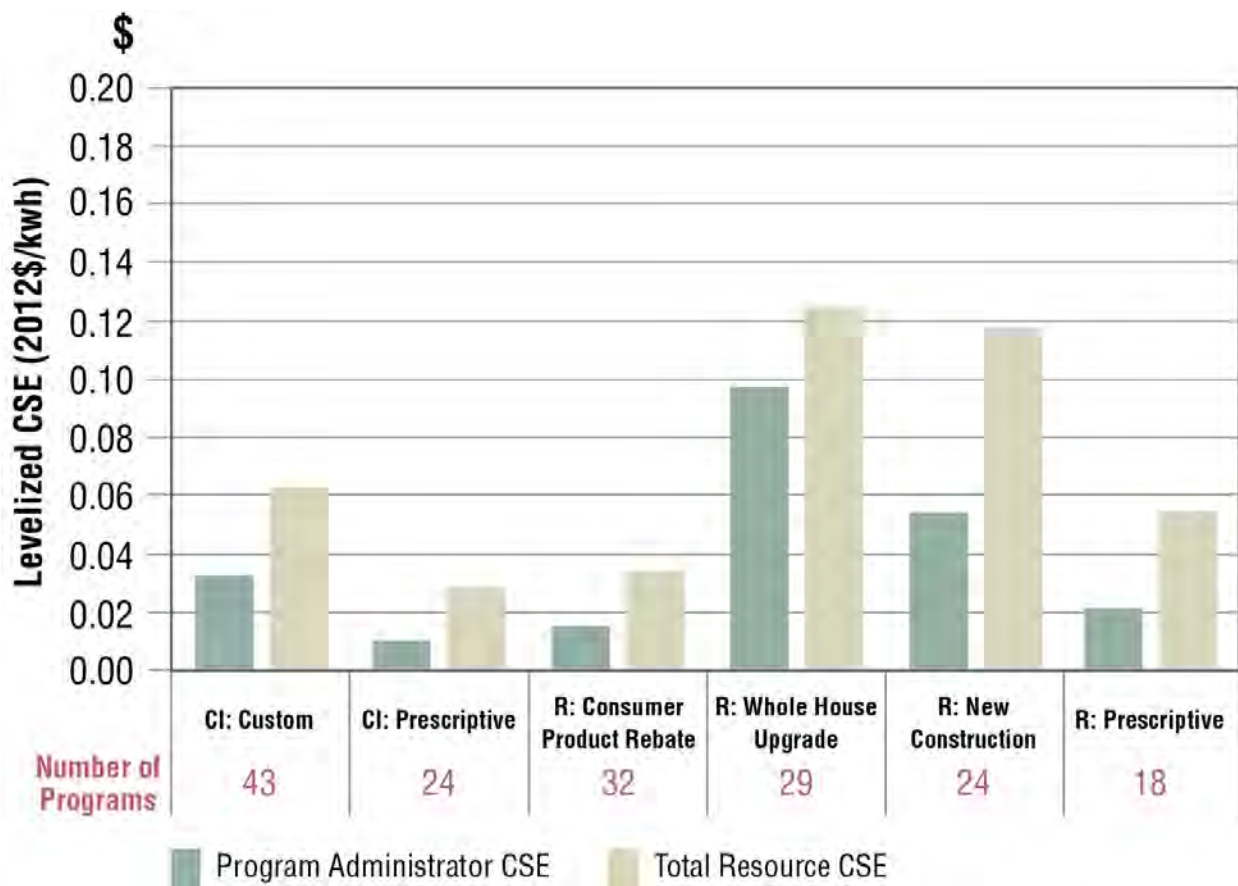


Figure 3-21. Levelized savings-weighted average CSE for electricity efficiency programs that include program administrator costs vs. total resource costs for select program categories⁷⁰

⁶⁹ The “n” of 18 was selected because there was a natural break in the data and also that criteria resulted in only including results for which there was a meaningful number of programs from which to calculate average values.

⁷⁰ This chart includes a very small sample of programs from 11 states; thus, results may not reflect current practices in many jurisdictions.

4. Testing Influences on the Costs of Saved Energy

As shown in Chapter 3, we observe a wide range of values for the program administrator CSE from virtually every perspective—nationally, and across regions, states, portfolios, and sectors. Moreover, we find significant variability within the different types of programs. The inter-quartile range of CSE values (the “middle” 50% of programs) for the first-year CSE can vary by a factor of 10 or more within a program category. In this chapter, we explore some factors that may be associated with this variability in the CSE. We describe the results of statistical analyses aimed at quantifying the relationship of CSE and a few, selected independent variables.

To initiate these analyses, we postulated three sets of potential explanations for these ranges of CSE values:

- Differences internal to the programs themselves and over which program administrators have at least some influence (e.g., the mix of measures in programs and thus the adoption patterns of consumers, the scale of programs, the maturity of the programs, program design, and program implementation);
- Differences external to the programs and over which program administrators have very little or no influence (e.g., climate, labor costs, and the policy framework within which programs operate).
- Incorrect information arising from problems with the primary data or faulty categorization of programs, or both (e.g., if gross energy savings are inaccurately reported in the source reports).⁷¹

We suspect that most or all of these factors influence the CSE values, interacting in ways that can be difficult to disentangle. In this chapter, we focus on the first two explanations (i.e., potential internal and external program influences) in order to see if their hypothesized influences on CSE are observed or not, using the programs in the database.⁷²

In the long run, we hope the collected data and this type of statistical analyses can:

- Inform policymakers and other stakeholders about the variability of the CSE to distinguish between controllable and uncontrollable sources of variability and, ideally, to identify ways of reducing costs or otherwise improving program design and delivery; and
- Lead to predictive models that specify and quantify major influences on CSE values and thus could inform cost or savings projections for use by portfolio planners, regulators, and resource planners.

⁷¹ See Chapter 2 for a discussion of data issues and Appendix C for a description of the quality control procedures implemented for this project.

⁷² As noted in Chapter 3, CSE values are derived as follows: Program costs refer to program administrator costs only; the CSE values exclude participant costs. Savings are *gross savings* as reported by the program administrator. When program administrators only reported net savings values and we either had or could derive program-specific net-to-gross ratios, we used those ratios to calculate gross savings values from reported net savings. Savings values are based on savings at the end-use site and not at the power plant or natural gas pumping station and thus do not account for transmission and distribution losses.

4.1 Hypotheses

Table 4-1 indicates five hypotheses postulated as part of this research effort. We present results for three of these hypotheses in this report (shown in black).⁷³ Future reports may provide more in-depth results for these hypotheses and analyses of other hypotheses (shown in gray), both indicated in Table 4-1 and under development.

Table 4-1. Factors that may influence the cost of saved energy

| Factors that May Influence the Cost of Saved Energy | Hypotheses | Proxy Variables | Level at which Variable Was Tested | Sources for Proxy Variable Data |
|--|--|--|--|--|
| Program Administrator Experience | Program administrators with more experience learn to deliver programs more effectively and efficiently, with resulting lower CSE | Years of energy efficiency program spending from 1999-2012⁷⁴ above a <i>de minimis</i> threshold | Portfolio and sector levels | U.S. Energy Information Administration Form 861 survey⁷⁵ data, 1999-2012 |
| Scale of Program | Larger programs reap economies of scale and thus have lower CSE | Number of program participants | Sector and simplified and detailed program level | LBNL DSM Program Impacts Database |
| Labor Costs | Areas with higher labor costs have higher CSE because labor is a significant component of both administrative and (indirectly) incentive costs. | State average wages for the construction industry | Portfolio, sector, and simplified and detailed program levels | U.S. Bureau of Labor Statistics |
| State Policy Environment | Strong efficiency policies can both raise the baseline for energy savings potential and drive program administrators to reach deeper into the economy for savings; over time, both factors | Estimated statewide savings targets, as a percent of retail sales | Portfolio, sector, and program levels | Various reports by LBNL and ACEEE State Scorecards |

⁷³ We plan to explore other hypotheses in future reports.

⁷⁴ This period was chosen largely because reporting of energy efficiency program spending and savings to EIA was less consistent in the early 1990s. See subsection on preliminary findings on program administrator experience for a discussion of the implications of selecting this period.

⁷⁵ We measured experience as the number of years that each program administrator has funded program portfolios at 0.1 percent of retail revenues for that program administrator or for utilities in that program administrator's territory. Where a time series of program funding could not be obtained (e.g., through gaps in reporting or delayed recognition of a non-utility program administrator in the survey data), we used the launch date for a multi-sector portfolio by that program administrator or, in a few cases, relied upon in-house knowledge of the level of energy-efficiency activity by that program administrator.

| | | | | |
|--------------------------------|--|---|---|--|
| | are likely to result in higher CSE. | | | |
| Retail Rate Environment | Higher retail energy costs result in lower CSE because the higher energy costs encourage more customers to invest in energy savings, thus lowering the program administrator's costs of securing participation and savings | Residential, commercial and industrial retail rates | Commercial and Industrial (C&I) and residential sectors | U.S. EIA 826 and 861 reports (the Monthly Electric Sales and Revenue Report with State Distributions Report and the Annual Electric Power Industry Report) |

Through the exercise of developing the hypotheses and identifying associated independent variables, it became clear that several of our theorized influences on the CSE interact in complex ways. Several variables operate in synergistic or countervailing ways. For example, some policies that are generally supportive of saving energy (e.g., energy savings targets) may dampen the costs of saving energy for program administrators in some circumstances and yet increase those costs under other circumstances. Further, the resulting effects may not operate uniformly or in the same direction from one market sector to another or across program types. Thus, the identification of potential influences on the CSEs, development of testable hypotheses and identification of valid independent variables is an iterative process, the early phases of which are described below.

4.2 Approach

For our dependent variable, we chose the first-year electric CSE, which is simply the program administrator cost (2012\$) divided by first-year gross electricity savings (in kWh). The primary advantage of using first-year savings (versus lifetime savings) is eliminating uncertainties associated with the measure lifetime data; see Chapters 2 and 3 for discussion of limitations of lifetime energy savings data.

The disadvantage of using first-year savings is the inability to examine the ways that potential influences on CSEs vary for shorter- versus longer-lived efficiency measures, as using a levelized or lifetime CSE might allow. Since energy resources are generally evaluated over their economic lifetime, we anticipate analyzing factors that may be associated with levelized CSE values.

Statistical Regressions

Statistical regressions do not necessarily imply causality. Regressions can establish correlation or a probability that changing one or more independent variables is significantly associated with a quantifiable change in the dependent variable (e.g., the CSE).

We identified and collected data on the independent variables as proxies for the factors chosen to represent the potential influences over CSE. We then performed single-variable ordinary least squares regressions to screen independent variables, followed by a limited number of multivariate regressions to test the correlation between variables and the relative contributions of the variables. Appendix F describes our data collection procedures for the independent variables, the statistical analysis process and contains a table of these preliminary regression results.

4.3 Preliminary Results: Analysis of Factors that May Influence the Cost of Saved Energy

Our preliminary results to date suggest that many factors influence the CSE, and the degree of those influences varies across market sectors and programs. In the following subsections, we present an illustrative sampling of preliminary results and also discuss some of the challenges in identifying valid independent variables and interpreting results.

4.3.1 Program Administrator Experience

We hypothesized that program administrators with more experience would, to some demonstrable degree, have optimized the efficacy of program implementation and thus have lower CSE values for their portfolio of programs after an initial period. Experienced program administrators might realize these cost savings by one or more mechanisms, including having already established the necessary program infrastructure and trade alliances, identifying cost efficiencies in overhead expenses, and learning what measures and marketing approaches tend to elicit more customer participation or deeper savings.

We defined the program administrator experience variable as follows: each year of spending above a minimum program spending threshold (0.1% of revenues) as reported to the Energy Information Administration counted as a year of experience administering efficiency programs.⁷⁶ Years of experience were summed up for all years where spending exceeded the threshold to the program year for the data being tested. For example, utility X offered an informational energy audit program to customers in 2004 and expanded their programs in subsequent years such that spending exceeded 0.1% of revenues in 2006. Thus, we assumed that this utility had four years of experience for their 2010 programs and five years of experience for their 2011 programs.

The nature of the relationship between first-year CSE values and program administrator experience is depicted in Figure 4-1. The blue dots in Figure 4-1 represent CSE values for the portfolio of programs offered each year by individual program administrators. The cost of first-year gross electricity savings is plotted on the y-axis, the years of program administrator experience are shown on the x-axis.

There may be a quadratic relationship, such that program administrator experience and the cost of first-year savings may trace a curve in which first-year CSE declines as program administrators gain experience and then, beyond a certain number of years, costs increase, as

⁷⁶ See Appendix F for a more detailed explanation of the basis for determining program administrator years of experience. Response rates vary among program administrators from year to year in providing EIA Form-861 information. Third-party program administrators were not included in the EIA datasets until very recently. The names and parent companies for some program administrators changed over time. Some EIA survey data terms and definitions have changed over time and program administrators may have interpreted those terms (e.g., direct vs. indirect spending) in different ways. These limitations increase as the data reaches back to the early years of the EIA survey. We therefore chose to limit the count of years above the spending threshold to a period from 1999 to 2012. We recognize that bounding our metric for program administrator experience to this 14-year period imposes an artificial ceiling on the level of experience for the most mature program administrators. This may affect the correlation between program administrator maturity and the cost of saved energy. However, this impact is likely to be limited because 80% of the program administrators in our dataset have spent above the designated spending threshold for 10 or fewer years.

saturation of low cost measures increases and program administrators offer programs that include more costly measures or target harder to reach market segments. However, a regression analysis with a quadratic specification using the first-year CSE values at the portfolio level does not show a statistically significant relationship,⁷⁷ and the magnitude of the effect, if it exists, is small (see a table of regression results in Appendix F). We plan to gather additional data, refine our method to estimate program administrator experience variable, and re-examine evidence for this relationship.

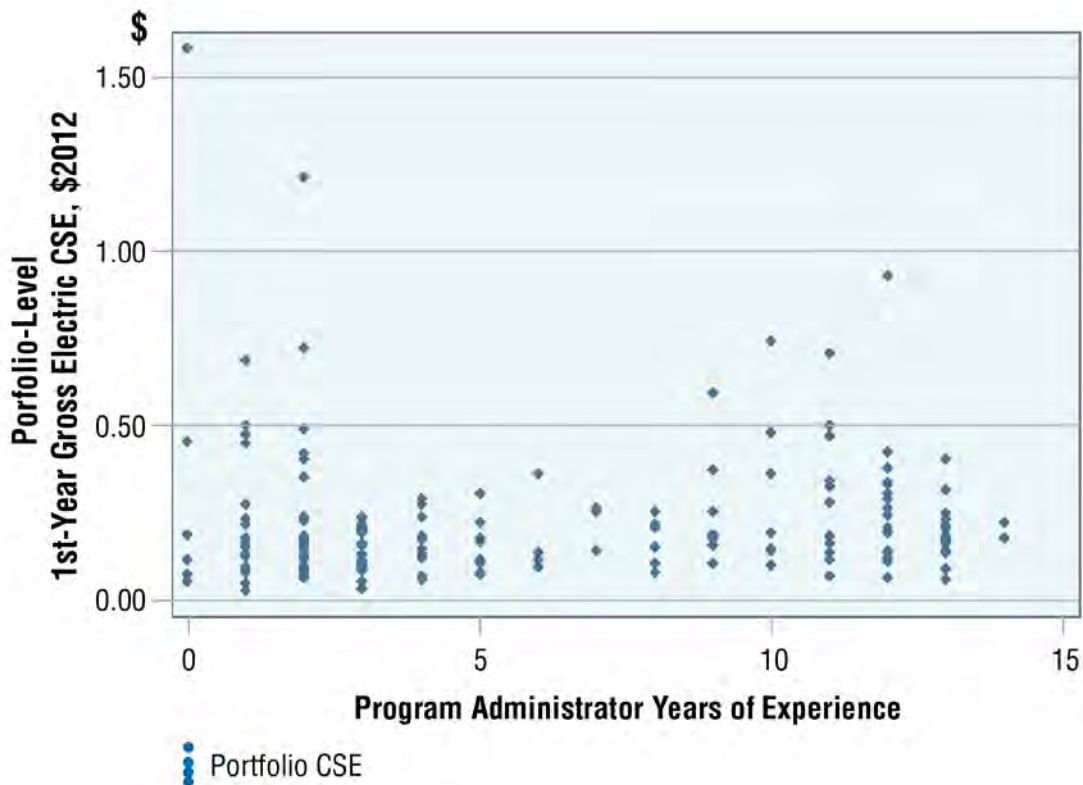


Figure 4-1. First-year portfolio-level CSE and program administrator experience, as measured by years of program spending above a minimal level.

4.3.2 Scale of Program

Based on economic theory, we would expect to see increasing economies of scale (i.e., lower CSE values as program fixed overhead costs are spread among more participant projects) at least up to a certain point. We found that the size of a program, as measured by number of participants, is often, but not always, indirectly associated with a decline in costs for some program types. This result is statistically significant for only certain program types. More reporting of participation levels could help determine, for different program types, when scaling up a program is likely to reduce the cost of saved energy.

As an example, Figure 4-2 depicts the relationship of participant count to first-year CSE for residential appliance recycling programs. The blue dots in Figure 4-2 represent first-year CSEs

⁷⁷ We use a 5% level as a threshold for statistical significance.

and reported participation for individual program years for appliance recycling programs. The red line is a linear fit across the data points, with the slope of the line indicating the predicted relationship between first-year cost performance and participation. For appliance recycling programs in our database, a doubling, or 100% increase, in the number of participants would, on average, be associated with about 0.01% of a reduction in the first-year CSE. This effect is statistically significant at the 5% level.

However, we also found that this effect is not statistically significant⁷⁸ for many other program types.

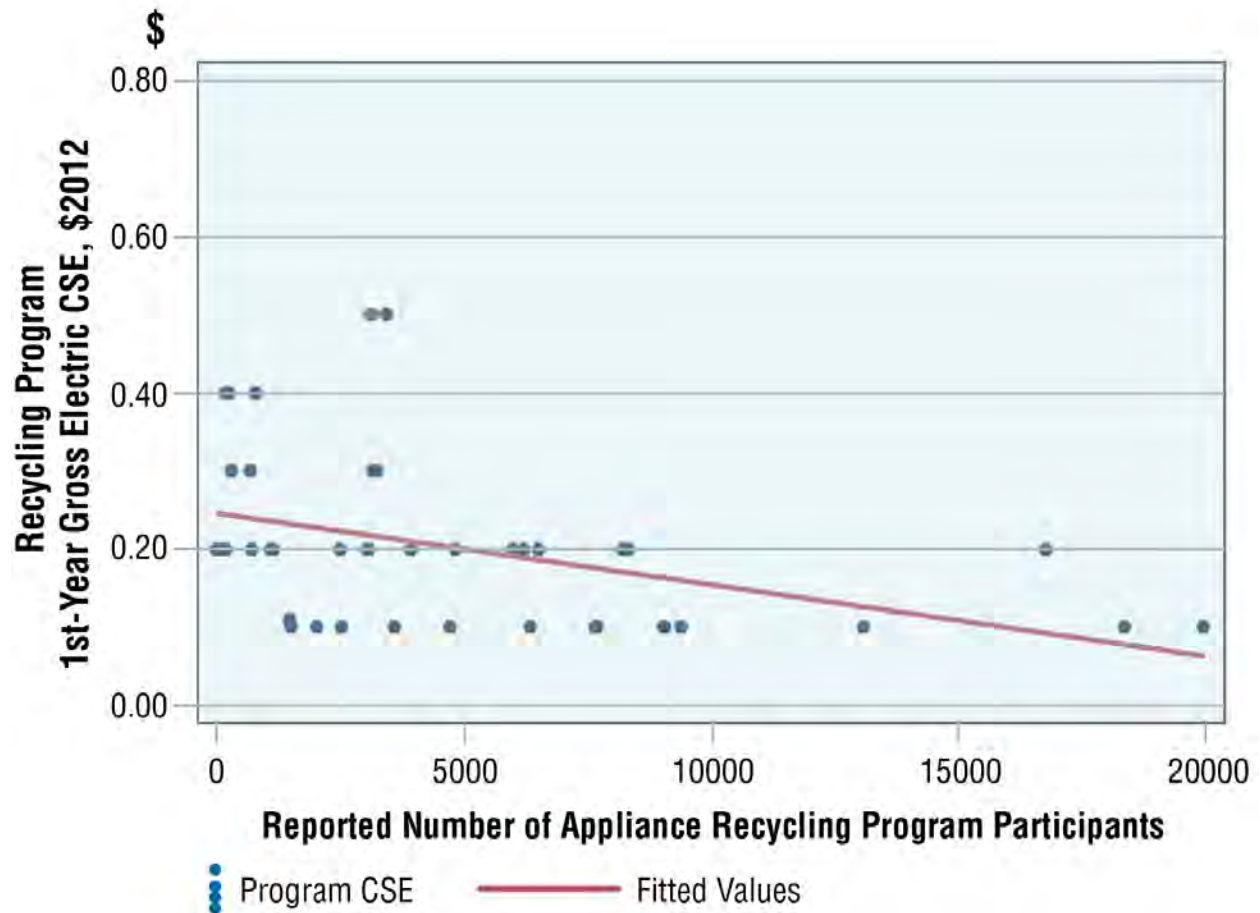


Figure 4-2. First-year CSE for appliance recycling programs and the reported number of recycling program participants

⁷⁸ The relationship between participation and first-year gross CSE for some other residential programs is statistically significant at the 20% level.

4.3.3 Labor Costs

We also theorized that higher labor costs result in higher CSE values (see Table 4-1). We present portfolio-wide CSE values as a function of state average hourly wages for construction industry employees in Figure 4-3. The blue dots represent CSE values for individual program administrator portfolios with the cost of first-year gross electricity savings plotted on the y-axis and the average hourly construction wages for the state in which the portfolios are administered on the x-axis.

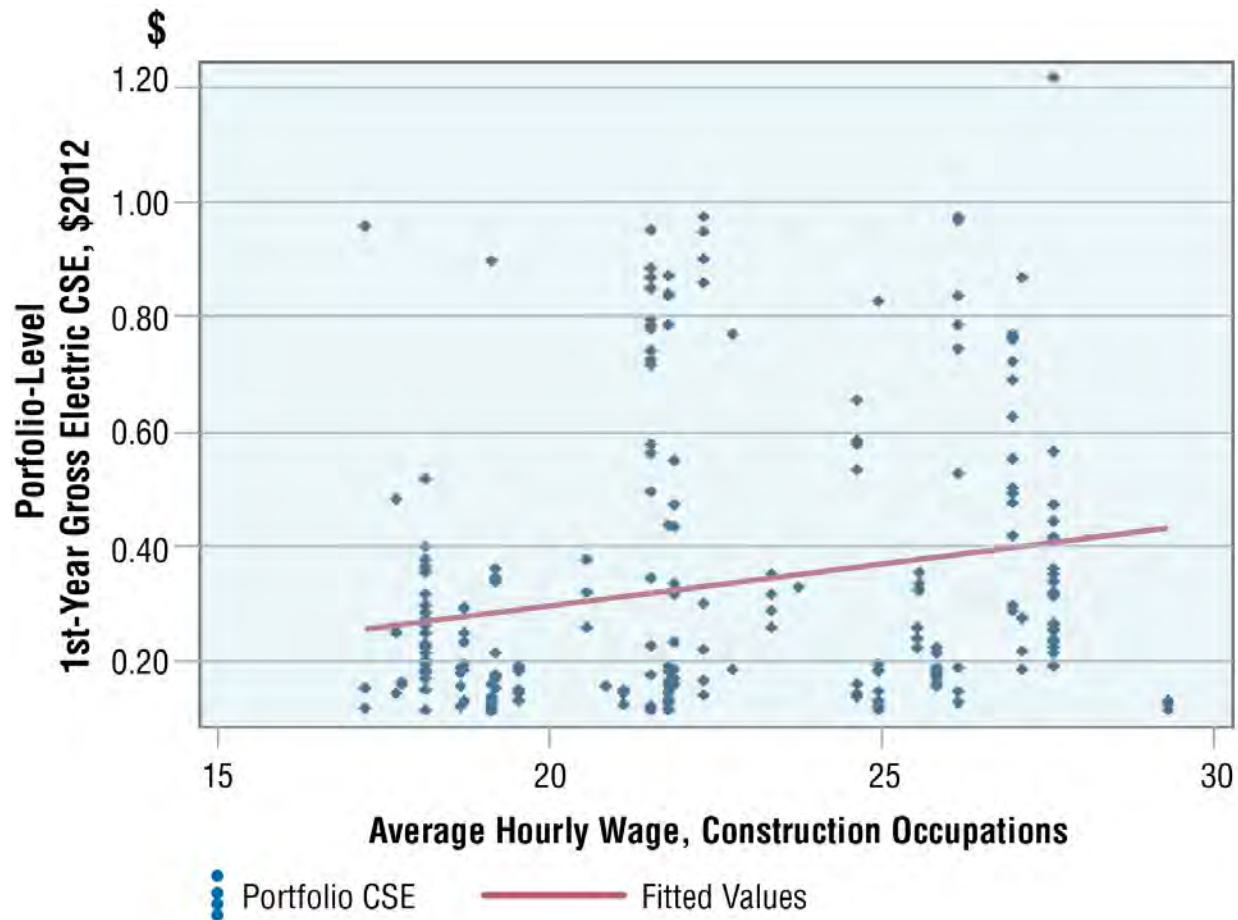


Figure 4-3. First-year portfolio-level CSE values and state average wages for construction industry employees (\$/hour)

We selected construction hourly wages at the state level as our independent variable because research on the makeup of the energy-efficiency program workforce suggests that the construction industry is generally representative of that workforce (Goldman et al., 2010; Carol Zabin, UC-Berkeley Labor Center, personal communication). Our analysis shows that there is a positive correlation between construction wages and portfolio-level first-year gross CSEs. This result is statistically significant at a 5% level. However, the demonstrated effect is generally small, as can be seen from the fairly shallow slope of the fitted line in Figure 4-3. The effect is also neither uniform nor statistically significant across individual program types. As an aside, we also tried state average per capita income as the independent variable and found that the results

are similar to those using construction hourly wages; this seems to indicate that labor costs are likely to play some role in the cost of saving energy.

4.4 Analytical Challenges

We also conducted exploratory analysis of other hypotheses (e.g., policy and retail price environments in which programs operate) and found that results varied substantially by market sector and program type. Many of these theorized relationships with the CSE are significant only at the 10%-15% level; further study is warranted.

The statistical analysis results described in this chapter depend critically on defining valid independent variables as well as the quality and quantity of the primary data underlying both the independent and dependent variables. Some of the difficulty in parsing these effects is a function of limitations in the underlying data for the independent variables. Drawing on an example noted earlier, we used data that program administrators voluntarily reported to the Energy Information Agency (EIA) to develop proxies for years of administrator experience. Program administrators sometimes do not report spending for every year or have interpreted EIA survey questions in different ways. More work is needed to minimize these and other sources of error or uncertainty in values for the independent variables.

Another challenge is specifying independent variables that are not highly correlated with other variables, that is, some proxies for influences on CSE can be overlapping in effect. For example, program administrators with more experience usually are required to achieve higher levels of savings. States that have higher labor costs also often have higher retail rates.

Likewise, it can be difficult to examine economies-of-scale questions when participation data are not provided. No participation data are reported for more than two-thirds of the program years in the database. In other cases, the data may be incorrect (numbers identified as participants are actually units sold or assumed installed) or ambiguous (unit and participant numbers are commingled or undifferentiated). Finally, many other questions pertinent to program design and delivery could be tested if spending breakdowns were available by program (i.e., program expenditures disaggregated into customer incentives, various categories of administration, marketing and outreach, and evaluation).

The primary data contained in the database have limitations, as discussed earlier. For the regression analysis, our total sample size was 2,035 data points. Many of the program years in the database are for gas-only programs, which are not included in an analysis of electricity program CSEs. Moreover, for some programs, the administrator did not report a key value (e.g., did not include program-level spending or allocate program costs by fuel for combination electric-gas programs).

5. Discussion of Key Findings and Recommendations

In this chapter, we summarize key findings from this initial report of the LBNL CSE Project and discuss opportunities for improving information provided by program administrators on the costs and impacts of efficiency programs.

5.1 Key Findings

We calculated the administrator costs of saving a unit of natural gas or electricity and reported the CSE in several ways, through first-year savings, lifetime savings and levelized savings. It is important to note that the CSE values presented in this report are retrospective and may not necessarily reflect future CSE for specific programs, particularly given updated appliance and lighting standards. The cost of efficiency as a function of first-year energy savings may be useful for budgeting to meet incremental annual savings targets. The cost of lifetime energy savings captures the efficiency that accrues throughout the effective lifetime of the implemented measures and therefore is more broadly applicable in designing programs and portfolios. In this study, we focused more attention on the program administrators' levelized cost of energy savings based on gross savings because relatively few program administrators reported the cost contributions of participants (or incremental measure costs) or net savings values. In future reports, our goals are to also provide the "all-in" or total resource CSE and to include CSE values based on net savings as well.

Key findings from this study are:⁷⁹

- The U.S. average electricity CSE was slightly more than two cents per kilowatt-hour in the period 2009-2011 when gross savings and spending are aggregated at the national level and the CSE is weighted by savings.⁸⁰ This levelized CSE is somewhat lower than reported by other previous studies. In a 2009 study, for example, Friedrich et al. found an average program administrator levelized CSE of \$0.025/kWh in constant 2007 dollars or \$0.027/kWh in constant 2012 dollars—about 29% higher than is reported here.⁸¹ The LBNL DSM Program Impacts Database contains a larger sample of program administrators, many of whom may have used longer program measure lifetimes that could affect CSE values. Moreover, nearly 40% of the program administrators in the database that administer electric efficiency programs have offered programs for less than four years and so may be early in accessing energy savings in their respective state economies or be targeting the least costly savings opportunities first.⁸²
- Other findings for electricity efficiency programs include:

⁷⁹ All values reported here are program administrator CSEs for gross energy savings, levelized at a 6% real discount rate and given in constant 2012 dollars.

⁸⁰ This average value is based on the efficiency program portfolios of 100 electric and electric-gas program administrators that represent just less than half of the program spending in the U.S. during 2009 through 2011. These PAs are a large and diverse group in terms of geography, baseline efficiency, and historic levels of program activity.

⁸¹ Friedrich et al. used a slightly lower discount rate (5 percent vs. 6 percent used in this report), so that the actual difference is larger.

⁸² See Appendix A for summary of current and previous CSE research.

- Residential electricity efficiency programs had the lowest average levelized CSE at \$0.018/kWh. Commercial, industrial and agricultural (C&I) programs had a slightly higher average levelized CSE at \$0.021/kWh. Low-income programs show an average levelized CSE at \$0.070/kWh.
- In reviewing regional results, the Midwest programs had the lowest average levelized CSE (\$0.014/kWh) and the Northeast programs the highest (\$0.033/kWh). The average levelized CSE values for programs in the West and South, to the extent sufficient reporting was found, were \$0.023/kWh and \$0.028/kWh, respectively.
- The database provides a valuable resource for understanding the composition and the CSE for various efficiency measures and program types. For example, at least 44% of the reported gross savings in the residential sector came from dedicated lighting programs and lighting rebate programs had a savings-weighted average CSE of \$0.007/kWh with a small inter-quartile range.
- Natural gas efficiency programs had a national, program administrator savings weighted CSE range of \$0.24 (lifetime CSE) to \$0.38 per therm (levelized CSE, 6% discount rate), with significant differences between the commercial/industrial and residential sectors (\$0.11–\$0.17 vs. \$0.32–\$0.56 per therm respectively).
- Not surprisingly, the levelized CSE varied widely both among program types and within program types. We found that the median value was typically higher than the savings-weighted average for nearly all types of programs. One possible explanation is that our sample includes a number of very large programs and for any given program type, larger efficiency programs have lower CSE than smaller programs because administrative costs are spread over more projects (e.g., economies of scale). Some of our statistical analyses tend to demonstrate this relationship; however, other factors are probably at work as well.
- The “all-in” or total resource cost of energy savings is subject to the uncertainties and very limited availability of information on participant costs. Based on our small sample of programs that reported participant costs, we found that the program administrator costs account for about a third to a half of the total CSE (including program administrator and participant costs). One exception is residential Whole-Home Upgrade programs in our database, for which the median value for the program administrator’s CSE is closer to three-quarters of the median CSE value that includes both program administrator and participant costs.
- We developed several hypotheses regarding factors that may influence the variability in the cost of saved energy. Preliminary statistical analyses of cost of first year energy savings suggest that myriad factors both internal and external to program design and implementation play some role in influencing the CSE:
 - Program administrator experience and the cost of first-year savings may show a curve where first-year CSE declines as new program administrators gain experience and then, beyond a certain number of years, costs increase, consistent with administration of portfolios that have matured beyond acquiring the least expensive resources. However, the demonstrated effect is generally small and not statistically significant at this time.

- Higher construction labor costs are associated with higher costs of energy savings at the portfolio level. However, the demonstrated effect is generally small and is not uniform (or statistically significant) across all types of programs.
- The size of a program, as measured by the number of participants, is associated with a decline in costs for some types of programs, suggesting that certain programs (e.g., Appliance Recycling programs) can achieve economies of scale by spreading fixed overhead across more projects. However, we also found that this result is not statistically significant for many other types of efficiency programs. More reporting of participation data could help determine when scaling up a program is likely to reduce costs and for what program types.

5.2 Discussion: Program Data Collection and Reporting

Program administrator annual reports are typically the product of state regulatory requirements or traditional practices that have evolved over time. In compiling and analyzing more than 4,000 program-years of data, we discovered a wide spectrum in the level of detail and completeness in annual program reporting. Barbose et al. (2013) found that over 45 states are running utility customer-funded efficiency programs. Many program administrators report program-level data at a very high level of completeness and transparency. However, we also found many examples of annual reports from program administrators that do not provide a complete picture of the impacts or costs of the efficiency investments at the program level. Although these reports may meet regulatory requirements in their state, they were not sufficient for the purposes of CSE analysis and therefore we were not able to include results from program administrators in many states.

With respect to current program reporting practices, we found:

- Inconsistencies in the quality and quantity of the costs and savings data which led LBNL to develop and attempt to apply consistent data definitions in reviewing and entering program data:
 - Program administrators in different states did not define savings metrics (e.g., varying definitions of net savings) and program costs consistently; and
 - Market sectors and program types were not characterized in a consistent fashion among program administrators.
- Many program administrators did not provide the basic data needed to calculate a CSE at the program level (i.e., program administrator costs and annual and lifetime savings), which introduced uncertainties into the calculation of CSE values.

This project brought into sharp relief the challenges of creating a program spending and savings database and calculating reliable, internally consistent metrics for assessing programmatic energy efficiency. For example, program measure lifetimes are essential for converting annual to lifetime savings while participant costs are essential for calculating the total resource costs of energy savings. We believe that nearly all program administrators must collect this information in order to satisfy cost-effectiveness screening requirements, yet many program administrators did not include this information in their annual efficiency reports:

- Less than 45% of electric program administrators reported lifetime savings;
- About 25% of electric program administrators reported program measure lifetimes;

- Only about half of electric program administrators reported both net and gross annual savings; and
- Less than a third of electric program administrators reported participant costs.

As a practical matter, the quality and quantity of program data reported by program administrators is an important factor in assessing energy efficiency as a resource in the utility sector. Therefore, we encourage further efforts to improve consistency in program administrator reporting of this information.

Regional and national policymakers have also expressed increasing interest in integrating energy efficiency as a resource and the value of transparent and complete reporting of program metrics as a foundation for increasing their confidence in this resource.⁸³ For example, ISO-New England, New York ISO and PJM Interconnection are collecting, or are considering collecting, demand-side spending and savings data from program administrators.⁸⁴ One objective is to develop better load forecasts in order to inform transmission planning, market development and operations. A second objective is to gain visibility into the future for wholesale energy and capacity markets. More rigorous and consistent reporting can help energy markets count and confidently value energy efficiency resources. Finally, all stakeholders that are engaged in any aspect of the efficiency effort share an interest in making energy-efficiency portfolios as cost effective as possible; consistent and more standardized reporting of efficiency program data and metrics are a prerequisite for this to occur.

We believe that there is a direct connection between the maturation of energy efficiency as a utility and national resource and increased consistency in periodic reporting of efficiency program costs and impacts. Additional rigor, completeness, standard terms, and consensus on at least essential elements of reporting could pay significant dividends for program administrators and increase confidence among policymakers and other stakeholders. With more consistent and comprehensive reporting of program results, we may obtain additional insights on trends in the costs of energy efficiency as a resource as program administrators scale up efforts, why those costs might vary from place to place and year to year, what saving energy costs among an array of strategies and what cost efficiencies might be achieved.

⁸³ The Northeast Energy Efficiency Partnerships' (NEEP) Regional Evaluation, Measurement and Verification Forum (EM&V Forum) supports the development and use of common, consistent protocols to evaluate, measure, verify, and report the savings, costs, and emission impacts of energy efficiency. The EM&V Forum has developed the Regional Energy Efficiency Database (REED), launched in early 2013, which includes data from eight states, soon to be nine states and the District of Columbia. REED was informed by the Forum's "Common Statewide Energy Efficiency Reporting Guidelines," which were adopted by the Forum's Steering Committee in 2010. See <http://neep.org/emv-forum/about-the-emv-forum/index>.

⁸⁴ The NY ISO and ISO NE develop projections on efficiency program impacts based on future program budgets and cost information about past program performance. See, e.g., the NY ISO 2013 Gold Book (http://www.nyiso.com/public/webdocs/markets_operations/services/planning/Documents_and_Resources/Planning_Data_and_Reference_Docs/Data_and_Reference_Docs/2013_GoldBook.pdf) and the 2014 Energy-Efficiency Data Review by the ISO NE Energy-Efficiency Working Group at http://www.iso-ne.com/committees/comm_wkgrps/othr/engry_effncy_frcst/2014mtrls/final_2014_eefwg_data_review.pdf

Therefore, we urge state regulators and program administrators to consider annually reporting certain essential data fields at a portfolio level and more comprehensive reporting of program-level data in order to facilitate benchmarking of efficiency program results at state, regional and national levels. The reporting hierarchy in Figure 5-1 illustrates this approach.

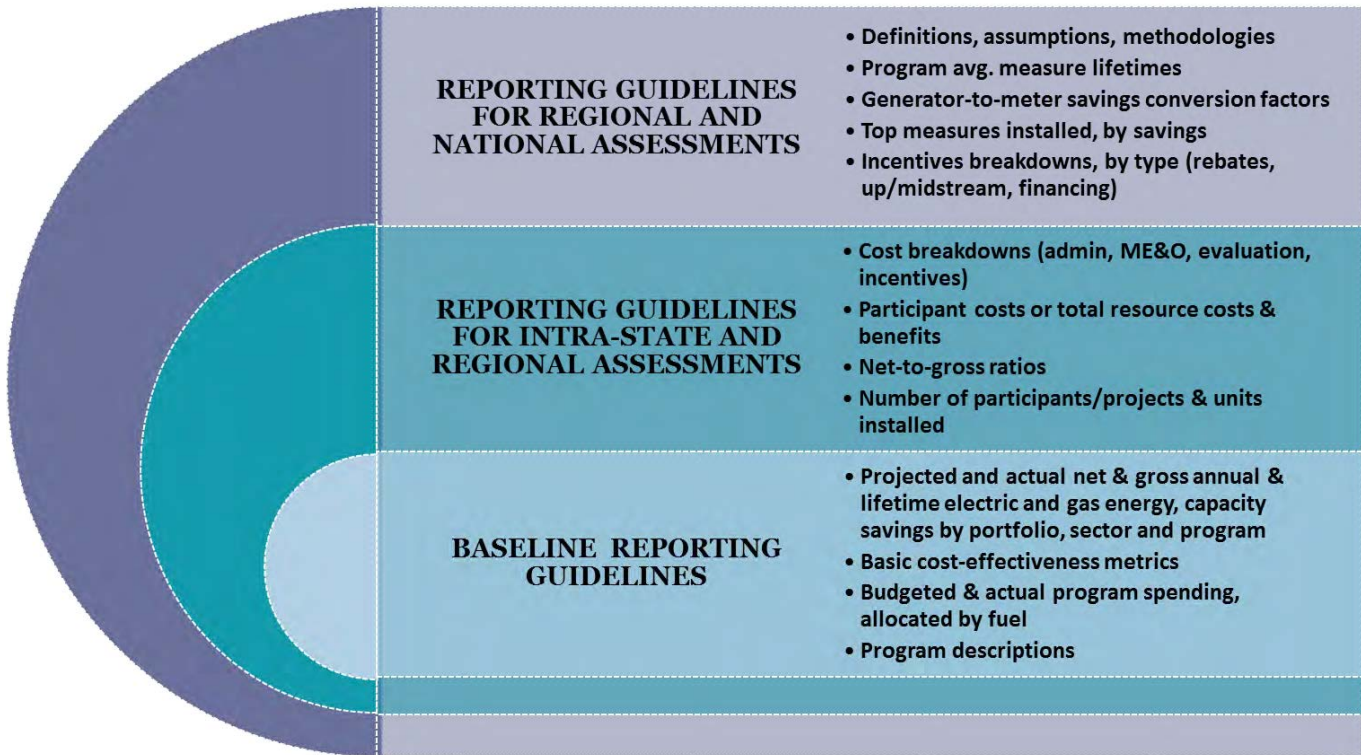


Figure 5-1. Components of annual energy efficiency program reporting

The program information included in each circle above correspond to gradually increasing visibility into program performance, increasing confidence in the reported values and potential relevance to policymakers and more stakeholders across broader geographic areas. The most basic level of reporting (light blue background) provides information that state regulators can use to ensure that programs are available to all customer classes and are cost-effective as implemented. The next level of reporting (teal background) provides critical information for calculating the CSE, assessing program efficacy and market penetration, and ensuring savings are attributable to program activities. The third level of reporting (purple background) enables comparisons of programs and cost performance in different states, reinforces assessments of program efficacy, and allows visibility into key assumptions to ensure those assumptions are valid and comparable to those used by other program administrators.⁸⁵

⁸⁵ The components of annual reporting in Figure 5-1 are not exclusive. A number of states require significantly more, including indicators of performance on multiple fronts. Examples include estimates of market penetration; estimates of economic impacts; and cost breakdowns by internal spending, payments to or for external evaluations, payments to implementation contractors, payments to installation contractors, etc.

If program administrators were to report, at a minimum, the data under the baseline guidelines, this analysis would include nine additional program administrators among the 31 states included in this study, and programs from at least an additional 14 states. This would facilitate a more comprehensive national analysis of the impact of utility-customer funded energy efficiency.

We also encourage program administrators, regulators and other stakeholders to provide feedback on our efforts to encourage consistent reporting of efficiency program results, particularly the program typology and data definitions. We will be soliciting input more formally as we move forward with the next phases of this project. Given sufficient interest and resources, it is our hope to update the LBNL DSM Program Impacts Database on a periodic basis and prepare comprehensive reports and policy briefs that are publicly available that explore key issues in energy efficiency programs.

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US Experience with Efficiency As a Transmission and Distribution System Resource

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Though we could not have completed this report without the help of those identified above, it is important to note that some of the feedback we received was conflicting. In addition, in a few cases, we disagreed with and therefore elected not to make some specific changes suggested by one or more reviewers. We make these points to underscore that we, the authors, are ultimately solely responsible for the information presented and the conclusions drawn in the report.

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Executive Summary

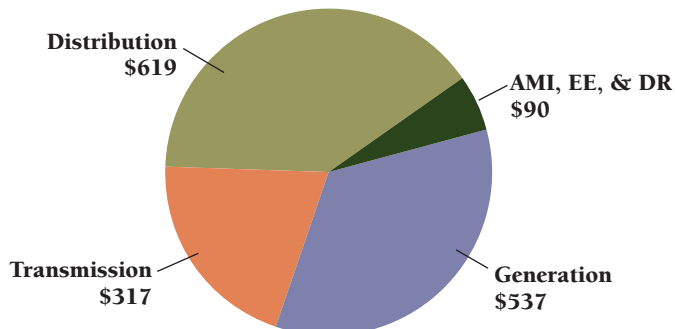
Improvements to electric efficiency in homes and business provide a variety of benefits to both the customers making the improvements and to the electric system as a whole. The most widely recognized are energy savings and system peak demand savings. A much less widely recognized or valued benefit is the potential to enhance the reliability of the transmission and distribution (T&D) system. This paper focuses on that potential, summarizing lessons learned from US initiatives in which geographically targeted efficiency programs have played a major role in electric utility funded efforts to defer T&D investments.

Importance of T&D Investments

The potential to defer T&D upgrades deserves much more serious consideration than it has received to date. The U.S. utility sector has invested on the order of \$35 to \$40 billion per year in the T&D system over the past decade and is forecast to invest nearly \$50 billion per year over the next two decades. As Figure ES-1 shows, this represents approximately 60% of total forecast investments for the sector. Only 6% of the forecast capital investments are in advanced metering infrastructure (AMI), energy efficiency (EE) and demand response (DR). Not all forecast T&D investments will be deferrable. Some will be required to address time-related deterioration of equipment or other factors that are independent of load. However, a significant portion of T&D investment is likely to be associated with load growth. The potential benefits of deferring even a

Figure ES-1

US Power Sector Capital Investment Needs (2010 – 2030)
(in billions of 2009 dollars)



modest portion of such investments could be substantial.

Passive Deferral vs. Active Deferral

Efficiency programs can defer T&D investments either passively or actively. We define “passive deferrals” as those that occur as a result of efficiency programs that were not undertaken primarily for the purpose of deferring T&D upgrades. For example, system-wide efficiency programs will reduce loads on virtually all major elements of the T&D system. As a result, at least some load growth-related investments in the T&D system will be deferred for at least some period of time. Indeed, Consolidated Edison (Con Ed) reduced its projected T&D capital expenditures by more than \$1 billion after separately adjusting 10-year load forecasts for each of its 91 distribution networks and load areas in New York to reflect the expected impacts of system-wide efficiency programs.

In contrast, “active deferrals” are those that result from efficiency programs that are geographically-targeted for the express purpose of deferring the need for upgrades to specific elements of the T&D infrastructure. Though there are a number of notable exceptions, this concept has not yet been widely pursued due to a variety of inter-related factors:

- **Financial incentives** – utilities typically earn more from investing in “poles and wires” than from investing in efficiency and/or other alternatives;
- **Efficiency’s multiple attributes/benefits** – because efficiency investments provide energy savings, peak capacity savings, reserve margin savings, and other benefits in addition to T&D reliability improvements, comparing them to “poles and wires” investments requires a holistic, systemic perspective that has not been universally adopted by utilities, their regulators, independent system operators (ISOs), or regional transmission operators (RTOs);
- **System planning is highly technical** – the technical specialization needed to do T&D planning fosters an environment biased to technical solutions;
- **System engineers distrust demand resources** – those charged with planning to meet reliability needs typically have limited interaction with efficiency program managers and limited direct experience with the performance of demand resources;

- **Risk aversion** – utilities are typically reluctant to try new approaches, particularly if they perceive any regulatory risk in doing so;
- **Socialization of transmission investment costs** – while the cost of transmission solutions are often socialized regionally, the cost of efficiency programs or other non-wires solutions that could meet the same reliability objectives are not; and
- **Responsibility for transmission planning is diffuse** – with state regulators, utilities, independent system operators or regional transmission operators and the Federal Energy Regulatory Commission all having roles, it is difficult for a new approach (i.e. non-wires solutions) to gain traction.

U.S. Experience with Active Deferrals of T&D Investments through Efficiency

Though far from widespread, a number of jurisdictions have tested and/or are in the process of testing the role that geographically-targeted efficiency programs could play in cost-effectively deferring T&D investments. This paper examines ten different initiatives or policies – four in the 1990s and six others that are much more recent and/or still underway. As summarized below, this experience provides valuable lessons to guide future policies for the successful deployment of energy efficiency as a T&D resource.

Pacific Gas and Electric's Delta Project (California, early 1990s)

The project aimed to defer the need for a new substation that would otherwise be required to serve a growing community of 25,000 homes and 3000 businesses in far eastern Contra Costa County. Several efficiency programs were quickly launched in the region to reduce peak loads, with more than 10% of homes receiving some major measures. The project did defer the need for the substation for at least two years, though at a higher cost than expected because some measures provided much lower peak savings than expected. While other measures provided greater savings than expected, the compressed timeframe for the project did not allow for switching of strategies early enough to keep average costs at more reasonable levels.

Portland General Electric's Downtown Portland Pilot (Oregon, early 1990s)

This project focused on several opportunities. In the case of individual buildings where load reductions were needed to defer transformer upgrades, the utility aggressively marketed existing system-wide efficiency programs to

the building owners. For grid network objectives, where peak demand reductions of 10-20% for entire 10-15 block areas were needed, the utility contracted with energy service companies (ESCOs) to deliver savings. Results were mixed. For one building, savings were enough to defer and possibly permanently eliminate the need for a \$250,000 upgrade. In another building an unexpected conversion from gas to electric cooling eliminated any opportunity to defer the upgrade. The ESCOs contracted to achieve savings in a grid area network succeeded in reducing peak load by more than the 20% required. However, the utility's distribution engineering staff decided to proceed with their construction project before the savings were documented.

BPA's Puget Sound Area Electric Reliability Plan (Washington, early 1990s)

The Bonneville Power Administration (BPA) and local utilities decided to address a transmission reliability concern through a strategy of adding voltage support to the existing transmission system (the most important part of the strategy) and more intensive deployment of energy efficiency programs (a complementary element). The project ended up delaying construction of a new cross-Cascade transmission line for more than a decade.

Green Mountain Power's Mad River Valley Project (Vermont, mid to late 1990s)

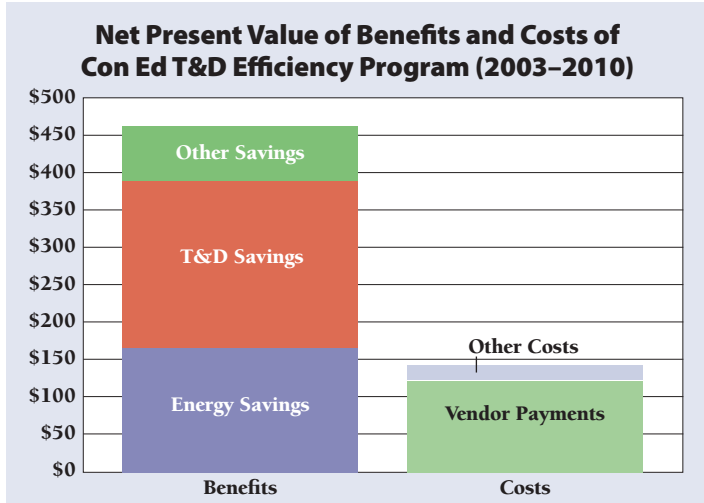
The project aimed to defer the need for a new distribution line in an area dominated by a large ski resort which had announced expansion plans that would add 15 MW of new load to the system. When it became clear that the resort may be required by Vermont regulations to bear most of the cost, negotiations between the utility, the resort and the state's rate-payer advocate led to an alternative plan in which the resort would better manage its load to ensure that total loads were within existing system tolerances and the utility would aggressively pursue efficiency improvements with its customers in the region. In the end, the project succeeded with the efficiency programs coming close to achieving overall savings goals.

Consolidated Edison (New York City, early 2000s to present)

In 2003, Con Ed launched a program to defer distribution system upgrades using a competitive bidding process to select the resources it would pursue. To date, only efficiency resources have been selected. To address reliability concerns, contracts for those resources include both significant upfront security and downstream liquidated damage provisions. All told, between 2003 and 2010, the Company employed geo-

graphically-targeted efficiency programs to defer upgrades in more than one third of its distribution networks. The resulting savings were very close to forecast needs and, as Figure ES-2 shows, provided more than \$300 million in net benefits to ratepayers. In some cases, the efficiency investments not only deferred upgrades, but bought enough time to allow the utility to refine load forecasts to the point where it now believes that capacity extensions may never be needed.

Figure ES-2



Efficiency Vermont Geo-Targeted DSM (2007 to present)

Efficiency Vermont’s performance goals were modified to include not only system wide savings targets, but also much more aggressive targets in selected geographic areas which the state’s utilities had identified as candidates for deferring T&D investments. The initiative has had some success. Although peak demand savings in the targeted areas were at least 30% below targets, they were still three to five times greater than those achieved statewide (notable since the statewide savings were already the highest in the nation). The state’s largest utility has observed that it has not had to schedule deployment of additional system upgrades in the targeted areas. The extent to which that is attributable to the geo-targeted efficiency programs, changes in economic conditions, other factors has not yet been determined.

NV Energy (Nevada, late 2000s)

NV Energy launched an efficiency initiative in and around Carson City in an effort to obviate the need to either run the locally situated but relatively expensive Fort Churchill generating station more frequently or construct a new transmission line and substation to bring less expensive power into the region. At the same time, the

utility began re-conductoring the existing 120-kVA line to the region. An economic recession also hit at the same time, dampening growth. As a result, the Company has not had to revisit the need for either running the Fort Churchill station more often or adding new T&D capacity.

Central Maine Power (currently under development)

In 2010, the Maine regulators approved a settlement agreement that supported construction of most elements of a large transmission project, but identified two areas – the Mid-Coast region and the city of Portland – where pilot projects to test the efficacy of non-transmission alternatives would be launched. In March 2011, Central Maine Power filed a plan for the Mid-Coast region that proposed using a competitive process to identify and acquire needed distributed resources. The plan suggested that efficiency resources were expected to be “highly competitive”. A variety of issues regarding both the forecast capacity needs and the process for acquiring distributed resources were unresolved as this report was being finalized.

National Grid (Rhode Island, currently under development)

In 2006, Rhode Island adopted a “System Reliability Procurement” policy that required utilities to file plans every three years. The plans must consider non-wires alternatives – including energy efficiency – whenever a T&D need is not based on an asset condition, would cost more than \$1 million, would require no more than a 20% reduction in load to defer and would not require investment in a “wires solution” for at least three years. Based on these guidelines, in late 2011, National Grid proposed an initial pilot project to defer the upgrading of a substation through a combination of load management and energy efficiency.

Bonneville Power Authority (Washington, Oregon and Idaho, currently under consideration)

In 2002, the Bonneville Power Authority launched an initiative in which it committed to investigating options for deferring potential transmission reinforcement projects. A year later, it formed a Non-Wires Solutions Round Table of key stakeholder groups to provide input to its work. It then developed a formal process by which transmission alternatives – including efficiency – would be assessed. That process includes an initial screening to determine if a project is a possible candidate for a non-wires solution. The project qualifies if it is estimated to cost at least \$5 million, it is driven by load growth and the need is at least eight years in the future. Bonneville is currently conducting detailed

feasibility assessments of non-wires solutions to three projects – one each in Oregon, Washington and Idaho – that passed this initial screen. In each case, efficiency is part of a package of options being considered.

Lessons Learned

Our review of these efforts to use efficiency programs to defer T&D investments – alone or in concert with other resources – leads us to the following initial conclusions:

- **Geographically-targeted efficiency can defer T&D investments.** That appears to have been the case in New York City; Vermont’s Mad River Valley; Portland, Oregon; and Contra Costa County, California.
- **Efficiency can be a cost-effective T&D resource.** There is less evidence regarding the cost-effectiveness of efficiency as an alternative to T&D investments. However, analysis of the most intensive and longest-standing effort – Con Ed’s experience in New York City – concluded that T&D savings alone out-weighed the cost of efficiency. When all efficiency benefits are considered, the initiative had a three-to-one benefit-cost ratio.
- **Unexpected events can affect the benefits of efficiency.** In several of the cases analyzed, some or all of the T&D investment being considered for deferral ended up being constructed for reasons having nothing to do with the effectiveness of deployment of efficiency resources. However, forecasting uncertainty works in both directions. Indeed, in a couple of cases, efficiency investments bought enough time to enable a utility to conclude that – contrary to initial forecasts – a T&D upgrade may never be needed.
- **Sufficient lead time is critical.** It is necessary to allow for sufficient planning, for sufficient deployment of efficiency resources to meet needs (particularly for larger projects) and for refinement of efficiency strategies during the deployment process.
- **Smaller is easier.** The smaller the area being addressed, the easier it is to consider efficiency and other non-wires alternatives. It is easier to characterize the opportunity in small areas. Also, savings will need to be acquired from fewer customers. Both of those things mean shorter lead times will be required.
- **Distribution is easier than transmission.** Distribution deferral projects will be smaller in scope. They are also less technically complex, involve fewer parties, and do not involve ISOs/RTOs and associated regional cost allocation frameworks (i.e. cost socialization issues).
- **Cross-discipline communications is critical.** Collaboration between efficiency program managers and T&D planners is critical to considering deploying

efficiency as an alternative to T&D investments. Both have much to learn from each other. Some level of trust must be developed between the two groups.

- **Efficiency should be integrated with other distributed resources.** Although efficiency programs can sometimes be sufficient to defer T&D investments, they will often need to be deployed in concert with demand response, distributed generation and other resources to enable deferral of T&D investments (particularly for larger projects).

Recommendations

The potential economic and other benefits of efficiency programs as a T&D resource are largely being ignored today. Some fundamental policy changes are required if that is to change:

- **Require least-cost T&D planning.** Experience in several jurisdictions suggest this is essential (though not sufficient) to beginning serious consideration of efficiency and other non-wires alternatives.
- **Require consideration of integrated solutions.** To ensure that potential synergies between efficiency and other non-wires alternatives are considered, any requirement for least cost-planning should make clear that all options, including different combinations of distributed resources, should be considered.
- **Institutionalize a long-term planning horizon.** The longer the lead time, the more likely it will be that efficiency and/or other distributed resources could cost-effectively defer T&D investments. At a minimum, T&D needs should be forecast at least 10 years into the future.
- **“Level the playing field” in payment for wires and non-wires alternatives.** Cost-allocation frameworks that socialize costs for transmission projects across a region but require all the cost of non-wires alternatives to be born locally create enormous disincentives to pursue least cost solutions.
- **Collect more data on efficiency’s impacts.** In much of the country, relatively little data on the hourly and seasonal impacts of efficiency resources has been collected and made public over the past two decades. Better data should help address concerns of T&D system planners.
- **Start with pilot projects.** Pilots offer important, lower risk opportunities to bring together efficiency program and T&D planners.
- **Leverage “smart grid” investments.** Customer and end-use data collected through such systems may enable better assessments of the potential for efficiency to serve as a T&D resource.

Table Of Contents

| | | | |
|--|---------------------------|--|--------------------------|
| Acknowledgements | <i>inside front cover</i> | Distribution is Easier than Transmission. | 20 |
| I. Introduction. | 2 | Cross-Discipline Communication is Critical. | 20 |
| Context – Historic and Future Investments in T&D. | 2 | Integrate Efficiency with | |
| “Passive Deferral” vs. “Active Deferral” | 3 | Other Distributed Resources | 20 |
| II. Active Deferral of T & D Investment – Selected Examples | 6 | IV. Recommendations | 21 |
| A. Early History | 6 | Require Least Cost T&D Planning | 21 |
| Pacific Gas and Electric (California) – | | Rhode Island | 21 |
| Delta Project | 6 | Vermont | 21 |
| Portland General Electric (Oregon) – | | Bonneville Power Administration | 22 |
| Downtown Portland Pilot | 7 | Require Consideration of Integrated Solutions | 23 |
| Bonneville Power Administration. | 8 | Institutionalize a Long-Term Planning Horizon | 23 |
| Green Mountain Power (Vermont) – | | “Level the Playing Field” in Payment for | |
| Mad River Valley | 8 | Wires and Non-Wires Alternatives. | 24 |
| B. More Recent Developments | 10 | Collect More Data on Efficiency’s Impacts | 24 |
| Consolidated Edison (New York City). | 10 | Start with Pilot Projects | 24 |
| Efficiency Vermont Geo-Targeted DSM | 12 | Leverage “Smart Grid” Investments | 24 |
| Central Maine Power | 15 | Appendix A: Rhode Island Standards for Least Cost | |
| NV Energy | 16 | Procurement and System Reliability Planning – | |
| III. Lessons Learned | 18 | Excerpt on Distributed Resources in Relation | |
| Geographically-Targeted Energy Efficiency | | to T&D Investment | 25 |
| Can Defer T&D Investments | 18 | Appendix B: Excerpts from Vermont’s Act 61. | 27 |
| Efficiency Can Be a Cost-Effective T&D Resource | 18 | Bibliography. | 29 |
| Stuff Happens! Unexpected Events Can | | Other RAP Publications on Energy Efficiency | 31 |
| Affect Benefits of Efficiency | 18 | Acronym Glossary | <i>inside back cover</i> |
| Sufficient Lead Time is Critical. | 19 | | |
| Smaller is Easier. | 20 | | |

1. Introduction

Improvements to electric efficiency in homes and businesses provide a variety of benefits to both the customers making the improvements and the electric system as a whole.¹ The most widely recognized are annual energy savings and system peak demand savings. Most consumers are primarily interested in energy savings because they typically drive cost savings on electricity bills. Utilities and grid operators are often most interested in reductions in load at the time of system peak, which enable them to avoid purchasing expensive peak generating capacity. A much less commonly recognized or valued benefit of efficiency investments is the potential for cost-effectively deferring upgrades to transmission and distribution (T&D) systems.

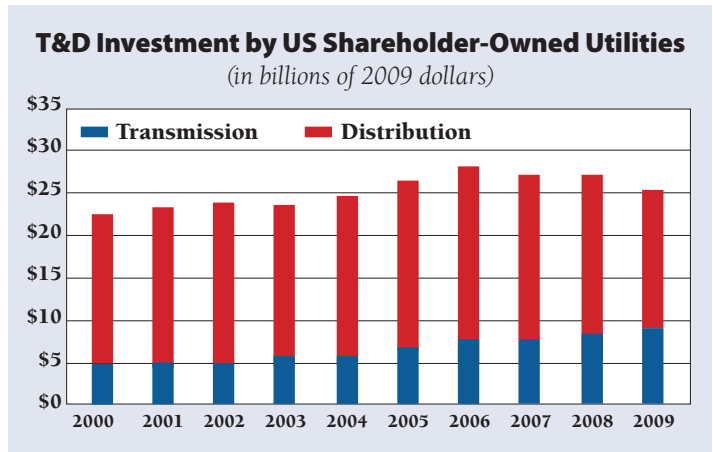
This paper focuses on that potential. In particular, it summarizes US experience to date and lessons learned from initiatives in which geographically targeted efficiency programs have played a major role in electric utility funded efforts to defer transmission and/or distribution system investments. Although other demand resources such as demand response and distributed generation can also be considered viable alternatives to T&D investments and have occasionally been deployed for that purpose, this paper does not explore those options in any detail, except when they are deployed as part of a multi-pronged strategy in conjunction with geographically targeted efficiency programs.

Context – Historic and Future Investments in Transmission and Distribution

The potential to defer upgrades to T&D warrants much more serious consideration than it has historically been given. As Figure 1 shows, T&D investments by investor-owned utilities, which collectively account for approximately two thirds of electricity sales in the United States, have averaged about \$26 billion annually over the past decade.

If public utilities are investing in T&D at the same rate, then total T&D investment nationally would be on the order of \$40 billion per year. That level of investment is expected to continue, if not increase, in the future. Indeed, as Figure 2 illustrates, the Edison Electric Institute

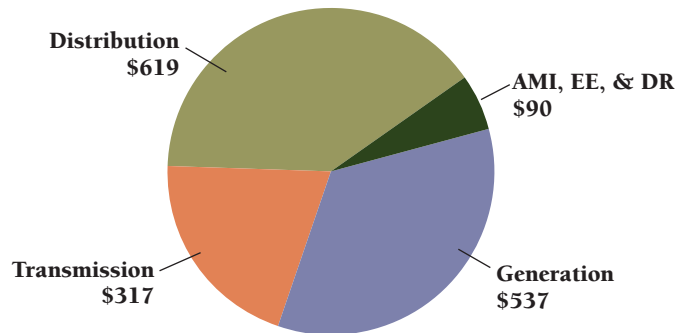
Figure 1²



recently commissioned a study that concluded the US power sector, including both investor-owned and public utilities, will require over \$1.5 trillion in capital investments

Figure 2³

US Power Sector Capital Investment Needs (2010 – 2030) (in billions of 2009 dollars)



- 1 There are also often a number of non-energy benefits (e.g., improved comfort, water and/or other resource savings, reduced operation and maintenance costs, increased productivity) that we do not address in this paper.
- 2 Personal communication with Steve Frauenheim, Edison Electric Institute (EEI), August 5, 2011. Data are from EEI's Statistical Yearbook of the Electric Power Industry 2009 Data, Table 9.1.

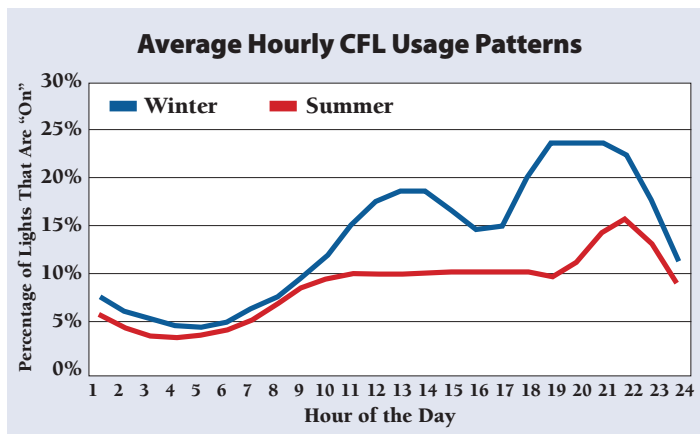
between 2010 and 2030 (2009 dollars), and that 40% of that investment – more than \$600 billion (i.e., more than \$30 billion/year) – will be in distribution system infrastructure and another 20% – more than \$300 billion (i.e., more than \$15 billion/year) – will be in transmission system infrastructure. Only about one third of the forecast investment is in new generation; another 6% is in advanced metering infrastructure, energy efficiency, and demand response.

“Passive Deferral” vs. “Active Deferral”

Deferrals of T&D investments can take two forms: passive deferral and active deferral. Passive deferral occurs when the growth in load or stress on feeders, substations, transmission lines, or other elements of the T&D system is reduced as a result of broad-based (e.g., statewide or utility service territory-wide) efficiency programs. For example, a statewide program to promote the sale and purchase of compact fluorescent light bulbs (CFLs) will have the effect of lowering loads on every element of the T&D system every hour of the day. To be sure, the amount of load reduction from such a program will vary considerably depending on the season (more during winter than summer), hour of the day (e.g., more during the evening than the day), and the customer mix served (e.g., more for feeders, substations, etc. serving primarily residential customers). As Figure 3 shows, however, the load shape of residential lighting is such that – across a population of program participants – some reductions in energy use will occur every hour of the year. Some reductions thus will occur during every hour of peak demand for every element of the T&D system.

Passive deferral benefits are sometimes reflected in average statewide or utility service territory-wide avoided T&D costs. Such avoided costs – along with avoided costs

Figure 3⁴



of energy and system peak capacity – are commonly used to assess whether efficiency programs are cost-effective (usually a regulatory requirement for funding approval). At the most general level, estimates of avoided T&D costs are typically developed by dividing the portion of forecast T&D capital investments that are associated with load growth (i.e., excluding the portion that is associated with replacement due to time-related deterioration or other factors that are independent of load) by the forecast growth in system load. Such estimates can vary considerably, often as a function of the utilities’ assumptions regarding how much investment is deferrable. For example, in New England, utility estimates of avoided T&D costs typically have ranged from about \$55 per kW-year to \$120 per kW-year.⁵ Avoided distribution costs typically account for 70% to 80% of those values (i.e., avoided distribution costs are typically two to four times greater than avoided transmission costs). Estimates for several utilities in California and the Pacific Northwest have ranged from \$30 to \$105 per kW-year, with an average of close to \$50.⁶ Again, avoided distribution costs are the larger

3 Chupka, Marc et al, (The Brattle Group). *Transforming America’s Power Industry: The Investment Challenge 2010-2030*, prepared for the Edison Foundation, November 2008. The forecast presented here is for the report’s base case scenario, including “realistically achievable potential” for energy efficiency and demand response. The report’s 2006 costs were increased by 6.4% so that they could be presented in 2009 dollars (based on changes in the Consumer Price Index between 2006 and 2009).

4 Nexus Market Research, *Residential Lighting Markdown Impact Evaluation*, submitted to Markdown and Buydown Program Sponsors in Connecticut, Massachusetts, Rhode Island, and Vermont, January 20, 2009 (from Figures 5-1 and 5-2).

5 Most are in the range of \$55 to \$85 (Synapse Energy Economics, *Avoided Energy Supply Costs in New England: 2009 Report*, revised October 23, 2009, p. 6-66). Vermont’s, however, is approximately \$120 per kW-year for summer peak savings and \$80 per kW-year for winter peak savings (personal communication with Erik Brown, Efficiency Vermont, December 23, 2011).

6 Northwest Power and Conservation Council, *Sixth Northwest Conservation and Electric Power Plan*, February 2010 (http://www.nwcouncil.org/energy/powerplan/6/final/SixthPowerPlan_Appendix_E.pdf), p. E-14.

of the two components – on the order of twice as large as avoided transmission costs.⁷ At the other extreme, in some jurisdictions it is conservatively assumed that no T&D investments can be avoided.⁸

Active deferral of T&D investments can occur when a conscious decision is made to invest in energy efficiency measures or programs – in targeted geographic locations – for the specific purpose of lowering loads on local T&D system elements. This concept has been actively pursued in relatively few jurisdictions to date. A variety of factors likely contribute to its limited testing for both transmission and distribution needs:

- **Economic incentives.** Utilities typically earn rates of return on capital investments. In many jurisdictions they do not make money on investments in efficiency.⁹
- **Efficiency's multiple attributes/benefits.** Efficiency resources provide a variety of benefits, including energy savings, peak capacity savings, environmental emission reductions, and T&D reliability improvements. Properly assessing whether efficiency could be a cost-effective alternative to T&D investments requires accounting for all of those benefits (e.g., although efficiency may not be cost-effective when considering just its T&D reliability benefits, it may be when considering all its benefits). That requires a holistic, systemic perspective that has not been universally adopted by utilities or their regulators, however, and is generally not a concern of ISOs/RTOs.
- **System planning is highly technical.** The technical specialization needed to do T&D planning fosters an environment biased to technical solutions. Put

another way, utilities and ISOs/RTOs tend to be engineering oriented, with a propensity toward building capacity to meet growing consumer demand.

- **System engineers distrust of demand-side resources.** System engineers trust assets that they can control, like “poles and wires,” and tend to be more skeptical or distrustful of investments on the customer side of the meter to reduce demand.
- **Risk aversion.** Related to the point above, utilities (like many other businesses) are often reluctant to try something different, particularly if they perceive any regulatory risk from doing so.

In general, the barriers to deployment of non-wires solutions to transmission needs are greater than those for distribution system needs. To begin with, transmission needs are typically more technically complex. In addition, the magnitude of the demand resources needed to defer them are larger and spread across much larger populations of customers. That can enhance system planners' fear of the ability of demand resources to meet reliability needs. It also typically means that longer lead times for consideration of non-wires solutions are necessary. Two additional factors are also critically important.

- **Socialization of transmission investments, but not non-wires alternatives.** The costs of transmission investments are often socialized regionally (i.e., across the entire grid), whereas the costs of efficiency programs or other non-wires solutions must typically be borne entirely by the local utility and its customers. This creates a classic “tragedy of the commons” in which it is less expensive for the local utility to choose what is often the most expensive option for a region.

7 Ibid. Figures E-5 (avoided transmission costs) and E-6 (avoided distribution costs) each provide eight separate examples. Only three of those examples are common, however: PG&E, PacifiCorp and PGE. For those three utilities, avoided distribution cost estimates were roughly double avoided transmission cost estimates.

8 For example, see: Consumers Energy, *2012-2015 Amended Energy Optimization Plan*, submitted to the Michigan Public Service Commission, Case No. U-16670, August 1, 2011, p. 25.

9 A recent ACEEE study identified 18 states that had a mechanism that allowed investor-owned utilities to earn shareholder incentives for good performance in administering efficiency programs (Hayes, Sara et al, *Carrots for Utilities: Providing Financial Returns for Utility Investments in Energy Efficiency*, ACEEE Report Number U111, January 2011).

- **Diffusion of responsibility for transmission planning and decision-making.** State regulators, utilities, ISOs/RTOs, and ultimately FERC all have roles in transmission planning and approval of transmission investments. It is difficult for a new approach (i.e., non-wires solutions) to get traction when there is no one entity “in charge” that can require consideration of such approaches. It is unclear how the recent FERC Order 1000, which requires ISOs/RTOs to consider state policies in their decisions, will change things.

Despite these barriers, aggressive geographically targeted

energy efficiency programs have been implemented in several jurisdictions in an attempt to defer specific T&D projects. The purpose of this paper is to document the lessons learned from those efforts. Again, although there are a variety of potential non-wires alternatives that can be and have been deployed to defer T&D investments, the focus of this paper is only on those projects in which energy efficiency played or is playing a substantial role. It is also important to note that this paper documents the consideration of efficiency as a T&D resource as of late 2011. Several of the cases described below are still evolving, potentially in ways that could add significantly to information and ideas presented herein.

2. Active Deferral of T&D Investment – Selected Examples

A. Early History

The concept of using geographically targeted energy efficiency investments to cost-effectively defer T&D system upgrades is not a new one. One can find numerous papers on the concept in efficiency conference proceedings going back to at least the early 1990s. The Electric Power Research Institute (EPRI), a research organization serving the utility industry, began pursuing several projects to assess the potential for integrating demand-side management (DSM) into utility T&D planning during the same time period. Most important, several groundbreaking projects were undertaken in the 1990s to test the concept. What follows are brief descriptions of those projects.

Pacific Gas and Electric (California) – Delta Project

One of the most widely publicized of these early projects was the Pacific Gas and Electric (PG&E) Model Energy Communities Program, commonly known as the Delta Project, which ran from July 1991 through March 1993. Its purpose was to determine whether the need for a new substation that would otherwise be required to serve a growing “bedroom community” of 25,000 homes and 3,000 businesses in far eastern Contra Costa County, California could be deferred through intensive efficiency investments. Peak demand in this area occurred on summer weekdays between 7 pm and 8 pm – much later than PG&E’s system peak (typically between 3 pm and 5 pm). This later local peak was driven by the fact that 74% of the peak load was residential, with many of the residential customers being two-income families who had long commutes from the San Francisco and Oakland areas and turned on their air conditioners when arriving home to 100° F heat.¹⁰

As a result, the largest portion of the project’s savings was

projected to come from a residential retrofit program targeted to homes with central air conditioning (the vast majority of homes in the targeted area). Under the initial design, participating homes would receive free installation of low-cost efficiency measures (e.g., CFLs, low flow showerheads, water heater blankets) during an initial site visit and would be scheduled for follow-up work with major measures such as duct sealing, air sealing, insulation, sun screening, and air conditioner tune-ups. More than 2,700 homes received such major measures. Later the program changed its focus to promoting early replacement of older, often over-sized and inefficient central air conditioners with new, efficient models. Other components of the Delta Project included commercial retrofits, a residential new construction program, and a small commercial new construction program.

Evaluations suggested that the project produced 2.3 MW of peak demand savings. The savings did come at a high cost – roughly \$3,900 per kW. This can likely be attributed to a couple of key factors. First, the project had an extremely compressed timeframe. It was planned and launched within six months; the implementation phase was less than two years. A second related factor was that some of the efficiency strategies produced much lower levels of savings than initially estimated, whereas others produced more. Because of the compressed timeframe for the project, the switch in emphasis to the better performing program strategies could not occur early enough to keep total costs per kW at more reasonable levels. For example, the residential shell and duct repair efforts were initially projected to generate nearly 1.8 MW of peak demand savings, but in the end, produced only about 0.2 MW at a cost of over \$16,000 per kW. In contrast, the early replacement residential central air conditioners produced 1.0 MW of peak savings – about 2.5 times the original forecast of about 0.4 MW – at a cost of about \$900 per kW.

10 The Results Center, “Pacific Gas & Electric Model Energy Communities Program,” Profile 81, 1994.

The final evaluation of the project suggested that the savings achieved succeeded in deferring the need for the substation for at least two years.¹¹ Although the project suggested that geographically targeted DSM could potentially defer T&D investments, no projects of this kind appear to have been pursued in California since.

Portland General Electric (Oregon) – Downtown Portland Pilot

In 1992, Portland General Electric (PGE) began planning the launch of a pilot initiative to assess the potential for using DSM to cost-effectively defer distribution system upgrades; implementation began in early 1993.¹² The pilot focused on several opportunities for deferring both transformer upgrades planned for large commercial buildings and grid network system upgrades planned for downtown Portland, Oregon. The projects were identified from a review of PGE's 5-year transmission and distribution plan. Although the PGE system was winter-peaking, downtown Portland was summer-peaking, so the focus would be on efficiency measures that reduced cooling and other summer peak loads. To be successful, deferrals would need to be achieved in one to three years, with the lead time varying by project. In each case, the value of deferring the capital improvements was estimated. The estimates varied by area, but averaged about \$35 per kW-year.¹³

Two different strategies were pursued. In the case of the individual commercial buildings, where peak demand reductions of several hundred kW per building were needed to defer transformer upgrades, the utility relied on existing system-wide DSM programs, but target marketed the programs to the owners of the buildings of interest using sales staff that already had relationships with the building owner or property management firm. For the grid network system objectives, where peak reductions of 10% to 20% for entire 10- to 15-block areas were needed, the utility contracted with energy service companies (ESCOs) to deliver savings. The ESCO contracts had two-tier pricing structures designed to encourage comprehensive treatment of efficiency opportunities and deep levels of savings. The first tier addressed savings up to 20% of a building's electricity consumption. The second tier was a much higher price for savings beyond 20%.¹⁴

The results of the pilot were mixed. For example, savings in one of the targeted commercial buildings was nearly twice what was needed, deferring and possibly permanently

eliminating the need for a \$250,000 upgrade. Savings for another building, however, fell short of the amount of reduction needed to defer its transformer upgrade. While other options were being explored to bridge the gap, an unexpected conversion from gas to electric cooling of the building “eliminated any opportunity to defer the upgrade.”¹⁵ The results for the first grid area network targeted were also very instructive. Of the 100 accounts in the area, the largest 20 accounted for more than three quarters of the load. By ultimately treating 12 of those 20, the ESCOs contracted by PGE actually succeeded in reducing load through efficiency measures by nearly 25% in just one year. That was substantially more than the 20% estimated to be necessary to defer the need for a distribution system upgrade. The utility's distribution engineering staff decided to proceed with construction of the upgrade before the magnitude of the achieved savings was known, however, because they did not have sufficient confidence that the savings would be achieved and would be reliable and persistent. It is also worth noting that the utility's marketing staff who were managing the ESCO's work were not even made aware of the decision to proceed with the construction until after it had begun – a telling indication of the lack of communication and trust between those responsible for energy efficiency initiatives and those responsible for distribution system planning.¹⁶

Despite some notable successes with its pilot, PGE has not subsequently pursued any additional efforts to defer distribution system upgrades through energy efficiency.¹⁷

- 11 Pacific Gas and Electric Company Market Department, *Evaluation Report: Model Energy Communities Program, Delta Project 1991-1994*, July 1994.
- 12 Personal communication with Rick Weijo, Portland General Electric, August 10, 2011.
- 13 Weijo, Richard O. and Linda Ecker (Portland General Electric), “Acquiring T&D Benefits from DSM: A Utility Case Study,” *Proceedings of 1994 ACEEE Summer Study on Energy Efficiency in Buildings*, Volume 2.
- 14 Ibid.
- 15 Ibid.
- 16 Ibid.
- 17 Personal communication with Rick Weijo, Portland General Electric, August 10, 2011.

Bonneville Power Administration

In the early 1990s, the Puget Sound area received more than three quarters of peak energy (i.e., during times of high demand for electric heat) via high voltage transmission lines that crossed the Cascade mountain range. Bonneville Power Administration (BPA) studies concluded the region could experience a voltage collapse – or blackout or brownout – if one of the lines failed during a cold snap.¹⁸ The level of risk “violated transmission planning standards.”¹⁹

The traditional option for addressing this reliability concern would have been to build additional high voltage transmission lines over the Cascades into the Puget Sound area. BPA and the local utilities chose instead, however, to pursue a lower cost path that included adding voltage support to the transmission system (e.g., “series capacitors to avoid building additional transmission corridors over the Cascades”) and more intensive deployment of energy efficiency programs (focused on loads that would help avoid voltage collapse). The voltage support was by far the most important of these elements.²⁰ The project, known as the Puget Sound Area Electric Reliability Plan, ended up delaying construction of expensive new high voltage transmission lines for at least a decade.²¹ Indeed, no new cross-Cascade transmission lines have been built to date.²²

As discussed further below, BPA has not yet pursued an

additional project to defer transmission system investments with efficiency programs.²³ It has, however, institutionalized a process for assessing whether non-transmission alternatives, including efficiency, would be preferable and, for the past decade or so, has initiated that process on several occasions (the most recent just getting started in the spring of 2011).

Green Mountain Power (Vermont) – Mad River Valley

In 1995, Green Mountain Power (GMP), Vermont’s second largest investor-owned electric utility, launched an initiative – the first of its kind in the state – to defer the need for a new distribution line in the Mad River Valley – a region in the central part of the state made famous by the Sugarbush and Mad River ski resorts. The existing U-shaped 34.5-kV line serving the valley had a reliable capacity of 30 MW. Sugarbush, which was located at the base of the “U” (its weakest point) and was already the largest load on the line, had announced plans to add up to 15 MW of load associated with a new hotel, a new conference center, and additional snow-making equipment. The existing line could not accommodate that kind of increase. Studies suggested that a new parallel 34.5-kV line would need to be added at a cost of at least \$5 million. Sugarbush initially requested that GMP

18 US Department of Energy, Bonneville Power Administration, Public Utility District Number 1 of Snohomish County, Puget Sound Power & Light, Seattle City Light and Tacoma City Light, “Puget Sound Reinforcement Project: Planning for Peak Power Needs,” Scoping report, Part A, Summary of Public Comments, July 1990.

19 Bonneville Power Administration Non-Construction Alternatives Roundtable, “Who Funds? Who Implements?” Subcommittee, “Non-Construction Alternatives – A Cost-Effective Way to Avoid, Defer or Reduce Transmission System Investments,” March 2004.

20 Indeed, although the plan included additional investments in efficiency, the additional capacitors, coupled with the addition of some local combustion turbines, were likely enough to defer the transmission lines even without the additional efficiency investments (personal communication with Frank Brown, BPA, 11/7/11).

21 Bonneville Power Authority, “Non-Wires Solutions Questions & Answers” fact sheet.

22 The system has been significantly altered over the past two decades as a result of substantial fuel-switching from electric heat to gas heat, the addition of significant wind generating capacity (much of it for sale to California), and other factors. At least until recently, BPA thus has had more “North-South issues” than “East-West issues” (personal communication with Frank Brown, BPA, 11/7/11). That may change in the future as utilities begin to rely more on wind generators east of the cascades (personal communication with Joshua Binus, BPA, 12/12/11).

23 In the mid to late 1990s, however, it did invest substantially in a demand response initiative in the San Juan islands to address reliability concerns after the newest of three underwater cables bringing power to the islands was accidentally severed. The initiative ran for five years and succeeded in keeping loads on the remaining cables at appropriate levels until a new cable was added.

pay for the new line. GMP was hesitant to do so, however, and Vermont's line extension rules were such that the utility and others could legitimately argue that much of the cost should be directly imposed on Sugarbush (and therefore less on other ratepayers).²⁴ Ensuing negotiations between GMP, Sugarbush, and the state's rate-payer advocate ultimately led to an alternative solution:

1. Sugarbush would ensure that load on the distribution line – *not just its load, but the total load of all customers* – would not exceed the safe 30 MW level;²⁵ and
2. GMP would invest in an aggressive effort to promote investment in energy efficiency among all residential and business customers in the region.²⁶

To meet its end of the bargain, GMP filed and regulators approved the following four efficiency programs targeted to the Mad River Valley:

- Large commercial/industrial retrofit program (targeting the 10 largest customers in the valley);
- Small commercial/industrial retrofit program;
- Residential retrofit program, focusing particularly on homes with electric heat and hot water (promoting both fuel-switching and weatherization); and
- Residential new construction assessment fee program, which imposed a mandatory fee on all new homes being constructed in the valley to pay for a home energy rating and offered both repayment of the fee and an additional incentive for building the home efficiently.²⁷

A couple of these programs were largely the same as programs GMP was offering to customers across its entire service territory, except that they were more aggressively marketed to Mad River Valley customers. In 1996, the year during which most of the project activity took place, GMP's efficiency program spending on the Mad River Valley represented about one quarter of its total DSM spending,²⁸ despite the fact that the area served represented no more than about 5% of its sales base.²⁹

By the time the targeted efforts were concluded in early 1997, roughly half of the target populations had participated in the small commercial and industrial (C&I) retrofit and residential retrofit programs, and 7 of the 10 customers targeted by the large retrofit program had participated. Further, three of the four programs had achieved their savings goals. The large C&I retrofit program was the one exception, having achieved only about 20% of the forecasted savings (suggesting that the depth of savings achieved per participant was much lower than projected). Because that program represented less than one fifth of the total savings projected for the Mad River Valley project, however, the project as a whole came close to achieving its overall savings goal.

This project was initially touted as “the first of many” designed to address T&D constraints.³⁰ As discussed further below, it took more than a decade for that vision to begin to be realized. Nevertheless, it was an important stepping stone in the process of distributed utility planning in Vermont.

24 Cowart, Richard et al., “Distributed Resources and Electric System Reliability, Regulatory Assistance Project, September 2001. Available: <http://www.raponline.org/document/download/id/682>.

25 This was possible because Sugarbush was such a large portion of the load on the line. It subsequently installed a real-time meter to monitor the consumptions of its own operations and telemetry to monitor total load from all customers at the local substation. It used this information to manage its own operations, including the timing of its snow-making, to keep total loads on the substation below 30 MW. In addition to avoiding any costs associated with its responsibility for the need to upgrade the power line, Sugarbush also received a rate discount from GMP. (Ibid.)

26 Ibid.

27 Green Mountain Power Corporation, “Demand Side Management Program Filing,” April 28, 1995 (Revised 5/5/95).

28 Green Mountain Power Corporation, “Demand Side Management Programs 1996 Annual Report,” April 1, 1997.

29 Personal communication with Dave Grimason, former GMP efficiency program manager, November 7, 2011.

30 Green Mountain Power Corporation, “Demand Side Management Program Filing,” April 28, 1995 (Revised 5/5/95), Executive Summary p. 2.

B. More Recent Developments

In the past several years, several additional efforts to defer T&D system investments have been undertaken. In a couple of additional jurisdictions, processes have been put in place to require that efficiency and other demand resources be considered as alternatives.

Consolidated Edison (New York City)

Consolidated Edison (Con Ed), the electric utility serving New York City and neighboring Westchester County, has been perhaps the most aggressive in the United States in integrating end-use energy efficiency into T&D planning. That integration has occurred on two levels.

First, as part of the annual development of its 10-year “load relief plan” (in which it forecasts any shortfalls in transmission, sub-transmission, and area substation capacity and establishes plans for addressing those shortfalls), the Company now routinely estimates the effects of system-wide efficiency programs on the individual peak demands of each of its 91 distribution networks and load areas, adjusting for the geographic variability in the market penetration of different efficiency programs, the load profiles of different efficiency programs, and the load profiles (and peak periods) of each distribution network. The company recently estimated that “including demand-side management in the 10-year forecast reduced projected capital expenditures by more than \$1 billion.”³¹

Second, Con Ed routinely assesses whether additional, geographically targeted investments in demand resources could cost-effectively defer investments in its distribution system. More important, where analysis suggests such cost-effective deferrals are possible, the utility invests in, closely tracks, and carefully evaluates the impacts of those resources. When Con Ed assesses cost-effectiveness, it considers all the benefits of efficiency investments, not just the T&D benefits (i.e., it compares the net present value of energy savings, system peak capacity savings, and T&D deferral benefits to the costs of the efficiency programs).

This geographically targeted investment in efficiency

began in 2003, when growth in demand was causing a number of Con Ed’s distribution networks to approach their peak capacity. Given the density of its customer base, much of the company’s system is underground, making upgrades expensive and disruptive. The Company thus began to assess whether it would be feasible and cost-effective to defer such upgrades through locally targeted end-use efficiency, distributed generation, fuel-switching, and other demand-side investments. At least initially, the focus was on projects “with need dates that were up to five years out and... required load relief that totaled less than 3% to 4% of the predicted network load.”³² A decision was made to proceed with geographically targeted demand resource investments, however, whenever it was determined that such investments were likely to be both feasible and cost-effective.

To maximize the financial benefits of relying on demand resources, Con Ed has chosen “not to hedge its bets by continuing the T&D planning and implementation process” in parallel with its pursuit of alternative demand resources. Instead, the Company has chosen to contract out the acquisition of demand resources to ESCOs and – to address reliability risks – to include in those contracts both “significant upfront security and downstream liquidated damage provisions,” as well as rigorous measurement and verification requirements. Contract prices are established through a competitive bidding process, with the Company’s analysis of the economics of deferral being used to establish the highest price it would be willing to pay for demand resources. Those threshold prices have varied from network to network. When the amount of demand resources bid at prices below the cost-effectiveness threshold were insufficient to defer T&D upgrades, supply-side improvements have been pursued instead.

In its initial pilot phase, the Company established contracts with three ESCOs to provide load reductions in nine network areas: five in midtown Manhattan, three in Brooklyn, and one in The Bronx. In subsequent phases, four different ESCOs were contracted to deliver load reductions in 21 additional network areas: 13 in Manhattan, four on Staten

31 Gazze, Chris and Madlen Massarlian, “Planning for Efficiency: Forecasting the Geographic Distribution of Demand Reductions,” in *Public Utilities Fortnightly*, August 2011, pp. 36-41.

32 Gazze, Chris, Steven Mysholowsky, Rebecca Craft, and Bruce Appelbaum. “Con Edison’s Targeted Demand Side Management Program: Replacing Distribution Infrastructure with Load Reduction,” in *Proceedings of the ACEEE 2010 Summer Study on Energy Efficiency in Buildings*, Volume 5, pp. 117-129.

Island, and four in Westchester County. Although ESCOs were allowed to bid virtually any kind of permanent load reduction, all of the accepted bids to date have been solely for the installation of efficiency measures. There have been a couple of explorations of distributed generation, but they have not yet been shown to be cost-effective.³³ All told, between 2003 and 2010, the Company employed geographically targeted efficiency programs to defer T&D system upgrades in more than one third of its distribution networks.

This approach has had considerable, but not universal, success. As Figure 4 shows, in aggregate the level of peak load reduction for Phase 1, which ran through 2007, was approximately 40 MW – or 7 MW less than the contracted level. As a result, Con Ed collected considerable liquated damages from participating ESCOs. Load reductions in subsequent phases have been close to those contracted in aggregate. Those aggregate results mask some differences across network areas, however. In particular, reductions in areas dominated by residential loads with evening peaks were achieved ahead of schedule, whereas reductions in areas whose loads were dominated by commercial customers with mid-day peaks have lagged behind goals. On the other hand, much of that commercial sector savings shortfall appears attributable to the recent

Figure 4³⁶

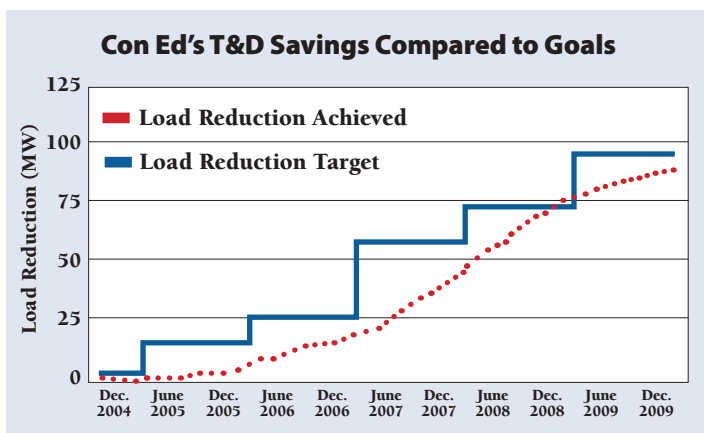
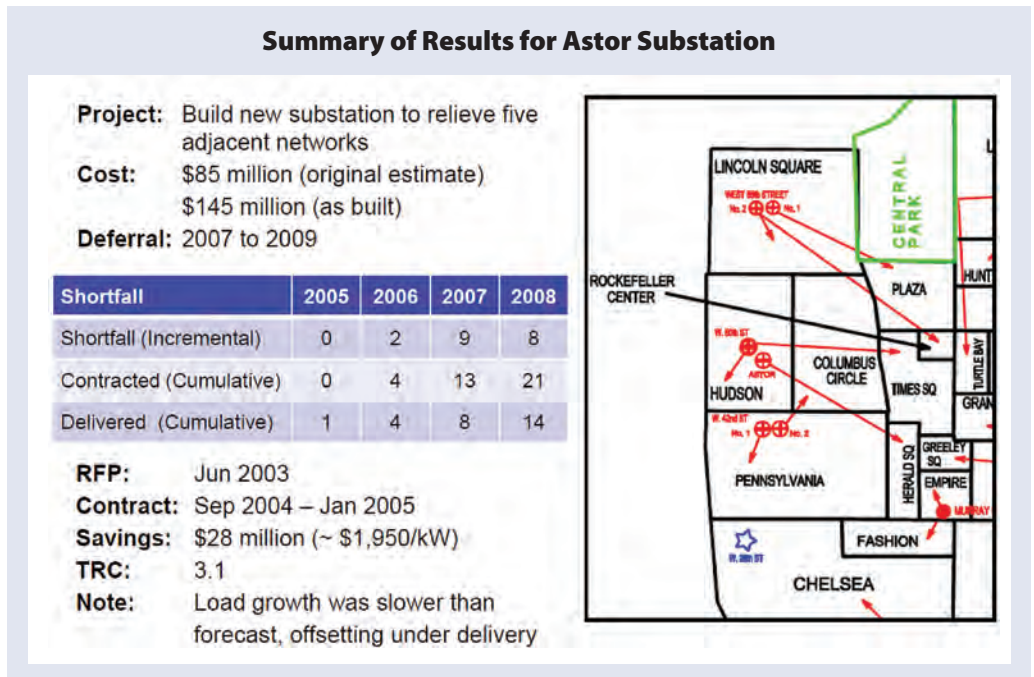


Figure 5³⁷



economic recession, which also had the effect of dampening baseline demand, offsetting most of the efficiency program shortfalls.³⁴ As shown in Figure 5, even when there was a shortfall relative to the savings target for the largest of the T&D deferral projects Con Ed undertook in Phase 1 – the Astor Substation deferral project – the efficiency investments still produced substantial economic benefits (\$28 million, or about \$1,950 per kW of savings) that were very cost-effective (benefit-cost ratio of 3:1).³⁵

This highlights an important benefit of efficiency programs – they are often load-following. Put another way,

33 Although all types of demand resources have been considered, only energy efficiency has been pursued to date, because it is the only demand resource proven to be cost-effective (personal communication with Chris Gazze, February 2011).

34 Gazze, Mysholowsky, and Craft (2010).

35 Gazze, Chris (Con Ed) and Bruce Appelbaum (ICF), “Con Edison’s Targeted DSM Program,” presentation at ACEEE Summer Study on Energy Efficiency in Buildings, August 18, 2010, Pacific Grove, CA.

36 Graph reproduced from Gazze, Mysholowsky, Craft, and Appelbaum (2010) with permission from Con Ed.

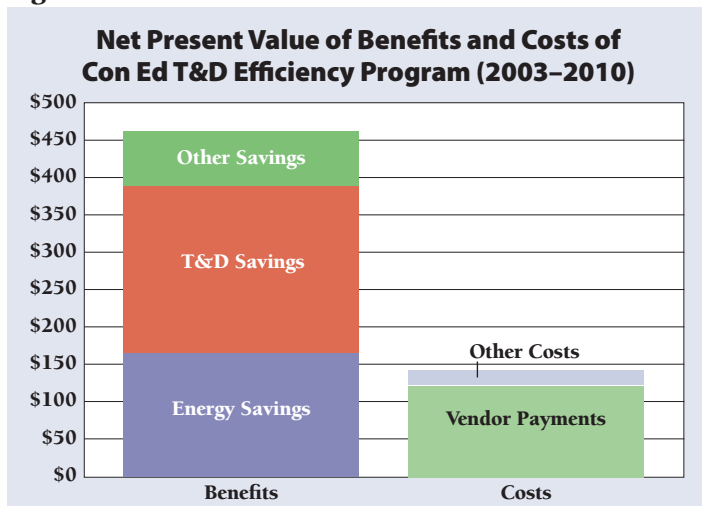
37 Graphic from Gazze and Appelbaum presentation, used with permission from Chris Gazze.

participation in efficiency programs tends to increase when load is growing more quickly and decrease when load is not growing quickly. In that sense, efficiency programs can help mitigate risk associated with forecast uncertainties. As Con Ed put it:

“...using DSM to defer projects bought time for demand uncertainty to resolve, leading to better capital decision making. Moreover, widespread policy and cultural shifts favoring energy efficiency may further defer some projects to the point where they are never needed...In fact, Con Edison has projected that in the absence of this program it would have installed up to \$85 million in capacity extensions that may never be needed.”³⁸

As Figure 6 shows, in aggregate, Con Ed has saved more than \$75 million when comparing the full costs of the efficiency programs to just the T&D costs that were

Figure 6³⁹



avoided. When other efficiency benefits (e.g., energy savings and system peak capacity savings) are also considered, the efficiency investments have saved Con Ed and its customers more than \$300 million.

Efficiency Vermont Geo-Targeted DSM

Shortly after the Mad River Valley project (see discussion earlier) was completed, negotiations began within the state to shift responsibility for efficiency program administration from the utilities to a dedicated “efficiency utility” – eventually to be named “Efficiency Vermont” – that would be selected through a competitive bidding process. The settlement agreement and subsequent September 1999

Public Service Board (the Board) order that created Efficiency Vermont made clear that, although Efficiency Vermont would be responsible for statewide efficiency programs, the utilities would still be responsible for funding and implementing any additional efficiency that could be justified as cost-effective alternatives to T&D system upgrades (although they could contract implementation to Efficiency Vermont). The Board also agreed to “initiate a collaborative process to establish guidelines for distributed utility planning.”⁴⁰ That collaborative culminated in a set of guidelines approved by the Board in 2003,⁴¹ as well as the creation of a number of “area specific collaboratives” in which opportunities for deferring specific T&D upgrades through non-wires alternatives would be explored. None of those discussions led to implementation of any such alternatives, however.

At roughly the same time (i.e., 2003), VELCO, the state’s transmission utility, formally proposed a very controversial large project to upgrade transmission lines from West Rutland to South Burlington (known as the Northwest Reliability Project). As required by Vermont law, VELCO filed an analysis of non-transmission alternatives. In all, five different combinations of alternatives were analyzed – four combinations of different kinds of local generation and a fifth combination of local generation and aggressive DSM. The analysis suggested that the four generation-only options were more expensive than the transmission line, but that the fifth option including DSM had a lower societal cost than the transmission line.⁴² That option, however, would involve much larger capital expenditures than the transmission line. Further, whereas much of the cost of the transmission option would be socialized across the New England Power Pool (Vermont pays a very small share of the portion of costs that are socialized across the region), the cost of the alternative path would be borne entirely by Vermont ratepayers due

38 Gazze, Mysholowsky, and Craft (2010).

39 Cost and benefit data provided by Chris Gazze, February 11, 2011. Note that “other costs” includes program administration (\$2.9 million), M&V (\$9.2 million), and customer costs (\$9.9 million).

40 State of Vermont, Public Service Board Order, Docket No. 5980, pp. 54-58.

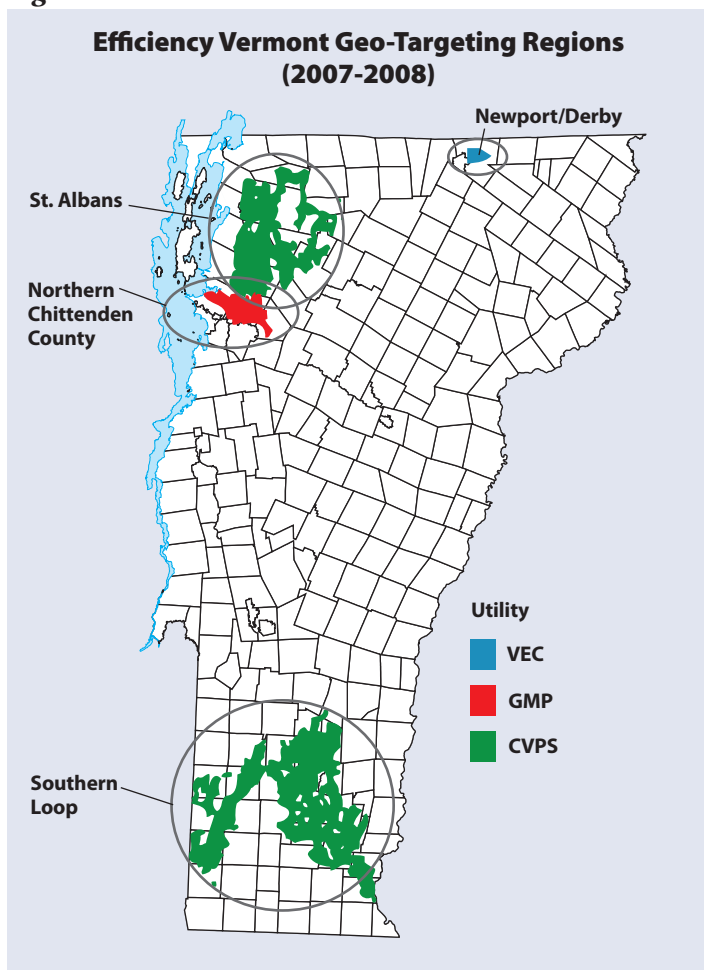
41 State of Vermont, Public Service Board Order, Docket No. 6290.

42 La Capra Associates, “Alternatives to VELCO’s Northwest Reliability Project,” January 29, 2003.

to New England ISO rules. Those concerns, coupled with VELCO's concerns that the level of DSM envisioned would be unprecedented, led the utility to argue in favor of the transmission option.⁴³ The Board ultimately approved VELCO's proposal in early 2005, but expressed concern and frustration with VELCO's planning process, namely that it did not consider alternatives, particularly efficiency, early enough in the process to make them truly viable options.⁴⁴

The approval of the transmission line contributed to the passage later that year of legislation (Act 61) that eliminated the statutory spending cap for Efficiency Vermont, instructed the Board to determine the optimal level of efficiency spending, and made clear that cost-effectively deferring T&D upgrades should be one of the objectives the Board considers in establishing the budget. The Board subsequently increased Efficiency Vermont's budget by about \$6.5 million (37%) in 2007 and \$12.2 million (66%) in 2008 and ordered that all of the additional spending be focused on four geographically targeted areas: northern Chittenden County, Newport, St.

Figure 7⁴⁷



Albans, and the “southern loop” (see Figure 7).⁴⁵ Those areas had been identified by the state's utilities as areas in which there may be potential for deferring significant T&D investment. Collectively, these efforts became known as Efficiency Vermont's “geo-targeting” initiative.⁴⁶

As Table 1 shows, these areas were fairly diverse in terms of the density of population, the geographic area they cover, the relative importance of residential vs. commercial and industrial loads, and the number of large customers. Two of the areas were summer peaking, one was winter peaking, and one had similar summer and winter peaks. The peak loads in the area varied from 18 to 70 MW in 2007. Forecasted load growth without efficiency programs ranged from 1.7% to 4.3% per year. Collectively, the four areas contained 63,000 customers – or 18% of the state's customer base. A total of 167 were large users (greater than 500 MWh of annual consumption), 8,600 were other business customers (many of them quite small), and about 54,000 were residential customers.⁴⁸

It is important to note that the investment in geo-targeting was viewed by the Board, utilities, and Efficiency Vermont as a “proof of concept” experiment. The selection of the targeted areas was rushed and probably not as well vetted as necessary to ensure deferral potential. Indeed, savings targets were not established from an analysis of how much was needed to defer the capital investments. Rather, they were set based on what was estimated to be achievable given available budget resources.

The original 18-month savings targets (from mid-2007 through the end of 2008) were 7.2 MW of summer peak savings (across the three areas with summer peaks) and 7.7

43 Ibid.

44 Vermont Public Service Board, “Board Approves Substantially Conditioned and Modified Transmission System Upgrade”, press release, January 28, 2005.

45 State of Vermont Public Service Board, Order Re: Energy Efficiency Utility Budget for Calendar Years 2006, 2007 and 2008, 8/2/2006.

46 Efficiency Vermont Annual Plan, 2008-2009.

47 Efficiency Vermont Annual Plan, 2007-2008.

48 Massie, Jim, Nancy Wasserman, and Blair Hamilton, “Fast Capacity Reduction through Geographically Targeted, Aggressive Efficiency Investment: Early Results from a Vermont Experiment,” in Proceedings of 2008 ACEEE Summer Study on Energy Efficiency in Buildings, Volume 5, pp. 194-205.

Table 1 ⁴⁹

| Characteristics of Vermont Geographically Targeted Areas (2007-2008) | | | | | | | | |
|--|-----------------|--------------|-------------|---------------------|-------------|----------------|----------------------------|---------------------------------------|
| | Urban vs. Rural | Size of Area | C&I Sales % | Large C&I Customers | Peak Period | 2007 Peak (MW) | Annual Load Growth w/o DSM | Projected Load Growth w/ Targeted DSM |
| N. Chittenden | Urban | Small | 65% | 72 | Summer | 64 | 4.3% | 1.2% |
| Newport | Urban | Small | 64% | 15 | Both | 18 | 1.7% | -0.5% ⁵⁰ |
| St. Albans | Urban | Moderate | 64% | 42 | Summer | 29 | 3.4% | -3.3% |
| Southern Loop | Rural | Large | 48% | 38 | Winter | 70 | 3.4% | -3.4% |

MW of winter peak savings (across the two areas with winter peaks). These targets represented a 7- to 10-fold increase in the peak savings Efficiency Vermont had achieved in the same areas during the previous 18 months. It was estimated that peak demands would not only stop growing but would actually decline in three of the four areas. In the fourth area (Chittenden North), which had the fastest natural growth rate, load growth was projected to decline by about 75% (from 4.3% to 1.2% per year).

To meet these savings goals, Efficiency Vermont implemented a three-pronged strategy:

1. Intensive account management of large commercial and industrial customers (targeted to approximately 148 customers using more than 500 MWh/year) to identify opportunities for deep savings and to negotiate financial incentives (often greater than those offered in other parts of the state) designed to achieve those savings;
2. Launch of an aggressive small commercial/industrial program (targeting those using 40 to 500 MWh/year) in which high savings measures (primarily lighting measures, but also other cost-effective HVAC, refrigeration, and custom measures) designed to achieve an average of 15% savings per business are directly installed at no cost or very low cost to the customer; and
3. Aggressive local promotion of CFLs to residential and small business customers through both targeted marketing campaigns, community awareness campaigns, and the use of direct mail coupons.

All customers in the areas were also still eligible to participate in other statewide programs.

After the selection of the initial four targeted areas, a working group consisting of the state's largest utilities, Efficiency Vermont, and the Vermont Department of Public Service developed a set of criteria for future selections for geo-targeting:

- Areas experiencing high load growth;
- Areas with known concerns regarding the capacity of existing T&D

infrastructure;

- Areas for which the minimum planning horizon for deferral was three years, with a preference for horizons of at least five years; and
- Areas for which there were “no other circumstances requiring immediate investment.”⁵¹

Ultimately, decision-making on geo-targeting priorities was supposed to move to the Vermont System Planning Committee (VSPC), which VELCO was charged by the Board with initiating. Initially, “although the VSPC was formed and has been functioning, for all intents and purposes the selection process remained with the founding geotargeting utilities.” This may have been because many parties still regarded geo-targeting as an experiment.⁵² More recently, however, the VSPC has assumed the role it was intended to play and initiated a robust process to select targeted areas for future efforts.

Approximately one year into its delivery, one of the four initially targeted areas (Newport) was dropped from the geo-targeting program when the distribution utility determined

49 Massie et al and Navigant Consulting et al., “Process and Impact Evaluation of Efficiency Vermont’s 2007-2009 Geotargeting Program,” Final Report, Submitted to Vermont Department of Public Service, January 7, 2011, p. 103.

50 This is the forecasted growth in winter peak demand. The baseline peak demands for summer and winter were the same. Efficiency Vermont forecast that it could reduce summer peak by more than winter peak, however. That would make winter peak the more constraining variable.

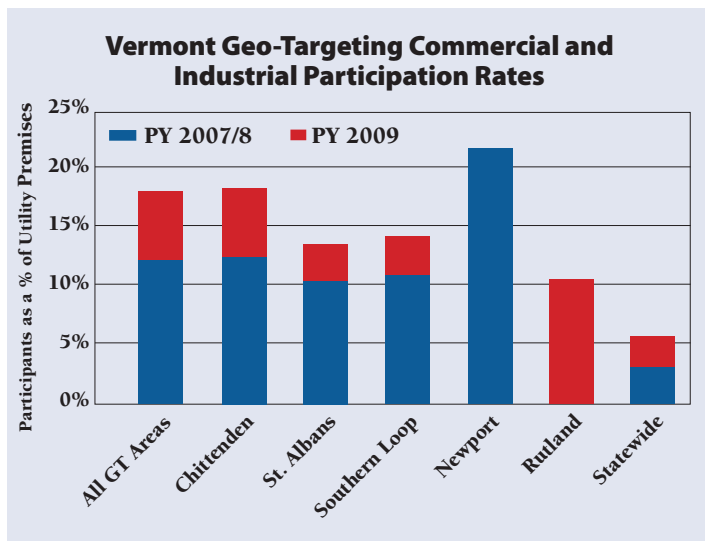
51 Navigant et al. (2011), p. 3.

52 Ibid.

that the substation whose rebuilding the program was intended to defer needed to be rebuilt for reasons other than load growth (i.e., “destabilization of the substation property due to river flooding”).⁵³ Independent of that decision, a new target area – Rutland – was added to the program beginning in 2009.

A recent evaluation of the geo-targeting program suggests that it has had some success, although not all results were as good as hoped or projected. To begin with, efficiency program participation was considerably higher in geo-targeted areas than in the rest of the state. For example, as Figure 8 shows, commercial and industrial customers in geo-targeted areas participated at a rate nearly four times as great as their counterparts in the rest of the state. For those areas that were in their third year of geo-targeted DSM in 2009, the participation rate multiplier (compared to the rest of the state) declined to 2 to 1. The multiplier for the newly added geo-targeted region (Rutland), however, was roughly the same 4 to 1 ratio experienced by the other regions in their first two years.⁵⁴ Savings per participant were also higher than in the statewide programs – 20% to 25% higher for commercial and industrial customers and 30% higher for residential customers. That increase appears to reflect success in achieving greater depth of lighting savings per participant rather than increased penetration of non-lighting efficiency measures.⁵⁵ The net result of those two factors was summer peak demand savings that were three to five times greater (depending on the region) in the first couple of years of the program than would have been achieved under the statewide programs.⁵⁶

Figure 8⁵⁷



All told, over the 2007 to 2009 time period, the program achieved summer peak demand reductions in the targeted areas of 10 MW – about 70% of its goal. Winter peak demand savings were more problematic, with the program achieving only 4.1 MW of reductions, or only about 40% of its goal. Nevertheless, analysis of loads on individual feeders in geo-targeted areas suggests that geo-targeting program impacts “are detectable at the system level” and that the magnitude of savings observed at the utility system level was consistent with those estimated through evaluation of customer savings.⁵⁸

Evaluation of the impacts of the observed peak demand reductions on the potential deferral of T&D investments has not yet been conducted. Central Vermont Public Service (the state’s largest utility), however, has observed that it “has not been required to schedule the deployment of additional system upgrades in Rutland, St. Albans and Southern Loop areas.” While it is difficult to know the extent to which that situation should be attributed to the geo-targeting of DSM, to changes in economic conditions (i.e., the recent economic recession), or to other factors, the Company has recommended to the Board that geo-targeting of DSM continue.⁵⁹

Central Maine Power

In June of 2010, the Maine Public Utilities Commission approved a settlement agreement reached by Central Maine Power (CMP) and a variety of other parties (including several public interest advocates) regarding a large transmission

53 Navigant et al. (2011), p. 26.

54 Navigant et al. (2011), pp. 85-87.

55 Navigant et al. (2011), pp. 89-91.

56 It is important to note that the statewide programs are already considered quite aggressive, achieving greater savings as a percent of sales than any state in the country in both 2007 (Eldridge, Maggie et al., *The 2009 State Energy Efficiency Scorecard*, ACEEE Report Number E097, October 2009) and 2008 (Molina, Maggie et al., *The 2010 State Energy Efficiency Scorecard*, ACEEE Report Number E107, October 2010).

57 Graphic courtesy of Navigant Consulting.

58 Navigant et al. (2011), p. 10.

59 Silver, Morris, Counsel for Central Vermont Public Service, letter to the Vermont Public Service Board regarding “EEU Demand Resources Plan – Track C, Geotargeting,” January 18, 2011.

system upgrade project (the Maine Power Reliability Project) that the utility had proposed.⁶⁰ The settlement supported construction of most elements of the upgrade, but identified two areas – the Mid-Coast region and the city of Portland – where pilot projects to test the efficacy of non-transmission alternatives would be launched.

As part of the settlement, CMP was required to conduct a needs assessment for the two regions and develop a proposal for using non-transmission alternatives in conjunction with one of the intervening parties – Grid Solar. In March 2011, CMP and Grid Solar filed a proposed plan for the Mid-Coast region. The plan looked at a couple of different scenarios, ultimately recommending an approach that would require 25 to 29 MW of distributed resources in the Camden-Rockland area and another 10 MW of distributed resources in the Boothbay region to fully obviate the need for a transmission upgrade. It also proposed to use an RFP process to identify and acquire the least cost mix of resources to meet this need. It further suggested the resources be acquired in phases, with the first RFP covering needs from 2012 through 2015 (10 MW in Camden-Rockland and 6 MW in Boothbay). Subsequent RFPs would be developed and issued “based on load growth in the Mid-coast area, on the performance of distributed resources under contract pursuant to prior RFP(s), and on changes to the physical electric transmission and distribution system circuits in the Mid-Coast area.”⁶¹

Under the proposal, any distributed resource would be eligible to respond to the RFP, including:

- Existing back-up generators (the plan identified 45 generators with a combined capacity of 25 MW in the region);
- New generators that could be acquired to provide both back-up capability to customers as well as distributed resources for the pilot;
- Demand response resources (as much as 15 MW were estimated to be in the region);
- Targeted energy efficiency (the plan estimating maximum achievable potential in the Mid-Coast region to be 15 MW, but suggested that 10 MW of that amount was already captured in CMP’s load forecast, leaving only 5 MW to potentially be acquired);
- Solar PV (the plan suggested that solar PV would not likely be competitive with other resources, but that it may be appropriate to set aside a portion of the RFP as a “solar carve out” to test the applicability of PV as

a transmission resource); and

- Storage (which was also estimated to be too expensive for initial rounds of procurement).

The plan noted that Vermont’s experience with geographically targeted efficiency programs suggested that efficiency resources would likely be “highly competitive with other distributed resources.” It also suggested that the Efficiency Maine Trust, which is responsible for and funded to implement statewide efficiency programs, could bid enhancements to its efficiency initiatives in the target region in response to the RFP. The plan left unaddressed, however, the question of how baseline levels of savings (from which additional savings from a more aggressive set of geographically targeted efforts would presumably be measured) would be established. It was also not clear whether the plan anticipated the possibility of other efficiency resource providers bidding in response to the RFP.⁶²

These issues have not yet been fully explored. In the summer of 2011 the Maine PUC held a Technical Conference on the plan. Among the topics discussed were the impacts of both the economic recession and new (more stringent) reliability standards issued by the North American Electric Reliability Council (NERC) on the forecast resource needs. CMP and Grid Solar are expected to examine these issues and file a new needs analysis and plan in late November 2011. A second Technical Conference is expected to follow in December 2011.⁶³

NV Energy

In 2008 NV Energy faced a situation in a relatively rural portion of its service territory, east of Carson City, in which growth in demand was going to need to be met by either running the locally situated but relatively expensive Fort Churchill generating station more frequently or constructing a 30-mile, 345-kVA transmission line and new substation

60 Maine Public Utilities Commission, Order Approving Stipulation, Docket No. 2008-255, June 10, 2010.

61 Central Maine Power and Grid Solar, Non-Transmission Alternative Pilot Plan and Smart Grid Proposal including Attachments 1-7, filed under Docket No. 2008-255 (Phase II), March 25, 2011.

62 Ibid.

63 Personal communication with Beth Nagursky, Environment Northeast, 11/16/11.

to bring less expensive power from the more efficient Tracy generating facility (situated further north, about 20 miles east of Reno) to the region. When the local county commission began expressing concerns about permitting construction of the substation, regulators instructed the Company to increase the intensity of its DSM efforts in the targeted region as an alternative to meeting the area's needs economically:

*"...the concentration of DSM energy efficiency measures in Carson City, Dayton, Carson Valley and South Tahoe has the potential to reduce the run time required for the Ft. Churchill generation units. The increased marketing costs and increased incentives and subsequent reduction in program energy savings required to attain an increased participation in the smaller market area are estimated to be more than offset by reduced fuel costs. Sierra Pacific, d.b.a. NV Energy, will make a reasonable effort within the approved DSM budget and programs to concentrate DSM activities in this area..."*⁶⁴

NV Energy pursued a variety of efforts to either focus its existing DSM programs more intensely on the Fort Churchill area and/or launch new initiatives. This included:⁶⁵

- **Non-Profit Agency Grants.** NV Energy gave priority to projects in the impacted area and marketed the program accordingly. In the end, 12 of the 35 applications it received were from the targeted area.
- **Energy Education.** NV Energy concentrated its education events in the region, ultimately holding 19 in 2009 – up from just two the previous year.
- **Low Income Weatherization.** NV Energy asked its implementation contractor to make a special effort to solicit program participation in the targeted area. Participation in the targeted area increased from just eight homes in 2008 to 57 in 2009.
- **ENERGY STAR Lighting and Appliances.** NV Energy concentrated marketing and outreach events in the Fort Churchill area, leading to an increase in participation of nearly 20% (although estimated savings did not increase due to changes in assumptions regarding average run times of CFLs).
- **Second Refrigerator Collection and Recycling.** NV Energy increased marketing efforts in the targeted region, in part through a targeted door-to-door campaign that also included distribution of nearly 100,000 CFLs to more than 16,000 homes. This resulted in increased participation in the refrigerator recycling program of nearly 15% in the targeted

region, as well as substantial lighting savings.

- **Energy Smart Schools.** NV Energy offered an "Energy Master Planning Service" to the Carson City and Douglas County School Districts, but both declined the service. The utility also launched a new initiative to distribute CFLs to school district employees.
- **Commercial Retrofit Incentive.** NV Energy renegotiated its contract with its program vendor to support increased marketing in the targeted area, increase financial incentives by 25% in the targeted area, and concentrate all direct install efforts in the target area. The result was a more than 260% increase in savings in the area.
- **Sure Bet Hotel Motel.** NV Energy increased marketing support and financial incentives for this program as well, but no increase in participation was realized.

Of these efforts, the second refrigerator collection and recycling program (primarily the CFL distributions) and the commercial retrofit program were together responsible for the vast majority of the increased DSM savings in the region.⁶⁶

At the same time as these efficiency efforts were launched, NV Energy's transmission staff began re-conductoring the existing 120-kVA line to the region to increase its carrying capacity. The economic recession also hit at the same time, dampening growth. As a result, the Company has not had to revisit the need for either the additional power line and substation or increasing the run time of the Fort Churchill generating station. The project has also facilitated the beginnings of "rich conversations" between demand resource planners and transmission planners within the Company.⁶⁷

64 Jarvis, Daniel et al., *Targeting Constrained Regions: A Case Study of the Fort Churchill Generating Area*, 2010 ACEEE Summer Study on Energy Efficiency in Buildings, Volume 5, pp. 178-189.

65 Sierra Pacific Power Company, 2010 Annual Demand Side Management Update Report, July 1, 2010, pp. 6-9.

66 Ibid, and Jarvis et al.

67 Personal communication with Larry Holmes, NV Energy, 11/9/11.

3. Lessons Learned

Although the actual implementation of efficiency as an alternative to T&D investments has not yet been what one might call “widespread,” there are enough examples in sufficiently diverse circumstances to draw initial conclusions.

Geographically Targeted Energy Efficiency Can Defer T&D Investments

A number of studies have suggested that aggressive, geographically targeted efficiency programs can meet T&D reliability objectives. More important, analyses of the actual deployment of efficiency as alternatives to T&D in several jurisdictions have concluded that supply-side investments were deferred for at least some period of time (e.g., Con Ed in New York City, Green Mountain Power’s Mad River Valley Project in Vermont, PG&E’s Delta Project in California, portions of PGE’s project in downtown Portland, Oregon).

Efficiency Can Be a Cost-Effective T&D Resource

There is less evidence regarding the cost-effectiveness of efficiency as an alternative to T&D upgrades. However, analysis of the most intensive and long-standing effort to defer T&D investments with efficiency programs – Con Ed’s experience in New York City – clearly concluded that the geographically targeted programs were very cost-effective. Indeed, the T&D benefits alone were greater than the costs of the programs. When other benefits (e.g., energy savings and system peak demand savings) are included in the analysis, the geographically targeted efficiency programs had a benefit-to-cost ratio of about 3 to 1.

The realization that energy efficiency provides a variety of electric system benefits is critically important, as that broad range of benefits can often render the pursuit of more intensive efficiency programs in localized areas a

“no regrets” strategy – at least from a purely economic perspective. Indeed, even though a determination of whether the recent Efficiency Vermont geo-targeting program has deferred T&D system upgrades has not yet been definitively made, evaluation of the program suggests it has been cost-effective – with a benefit cost-ratio of about 2 to 1 (under the Total Resource Cost Test) – even if no T&D investments are deferred.⁶⁸

This suggests that, in most cases, the most important concerns regarding the deployment of efficiency as a T&D resource will likely be efficiency savings forecast issues (i.e., particularly uncertainty about whether enough customers will install enough efficiency measures to actually avoid a reliability-driven investment) and possibly equity issues (i.e., concerns about customers in targeted areas getting greater access to and/or greater financial incentives from efficiency programs than those in other areas).

Stuff Happens! Unexpected Events Can Affect Benefits of Efficiency

It is worth noting that in several of the case studies examined for this report some or all of the T&D investment being considered for deferral ultimately ended up being constructed for reasons having nothing to do with the effectiveness of the deployment of efficiency resources. For example, part of PGE’s project in Portland, Oregon (to defer a transformer upgrade for one commercial building) ended when the conversion from gas to electric cooling for the building added too much load to be offset by demand-side measures. More recently in Vermont, one of the original areas targeted for locally intensive DSM programs (Newport) was removed from the program when the existing substation became destabilized due to flooding, necessitating an immediate supply-side investment. In each of those cases, it could be concluded that the investments in efficiency programs ultimately provided either no T&D

68 Navigant et al. (2011), p. 100. Similar analyses for other case studies examined are not available.

benefit or very little benefit.

It is important to recognize that forecasting uncertainty works in both directions, however. In several of the examples discussed in this paper it appears as if efficiency investments not only permitted deferral of a T&D investment, but permanently eliminated the need for the investment. This happened either because the efficiency savings realized were greater than forecast (e.g., in one of the commercial buildings treated by PGE's program in Portland, Oregon) or because the efficiency investments bought enough time for more fundamental changes in demand to take hold (e.g., Con Ed's conclusion that \$85 million in T&D investments that it otherwise would have made may now never be needed).

The bottom line is that there are a variety of risks associated with forecasting of T&D system needs that can affect the potential benefits of using efficiency to defer T&D system investments. These include:

- The reliability risk of under-forecasting demand growth;
- The economic risk of over-building the T&D system due to over-forecasting of demand growth; and
- Both the reliability risk (if it takes longer than expected) and the economic risk (if it ends up costing more)⁶⁹ of siting new poles and wires.

It could be argued that efficiency programs are more likely to mitigate than to exacerbate these risks. To begin with, many efficiency programs are "load-following." For example, efficiency programs designed to promote efficiency in the construction of new buildings will generally have lower participation and savings when construction slows (i.e., when savings are least needed) and higher participation and savings when construction accelerates (i.e., when savings are most needed). Similarly, efficiency programs often have a harder time convincing home-owners and businesses to participate – and therefore have a harder time meeting savings goals – during difficult economic times (i.e., when loads are not growing fast and therefore concerns about exceeding T&D system capacity are lower); they often have an easier time recruiting

participants and exceeding savings goals during good economic times (i.e., when loads are naturally growing faster, imposing greater strains on T&D systems). Indeed, the reality that Efficiency Vermont launched its geo-targeting program just before the recent deep economic recession was probably a contributing factor to their failure to meet initial savings goals. On the other hand, as Central Vermont Public Service has implied, the recession is likely part of the reason the Company has not had to deploy additional system upgrades in its portion of the targeted areas.

Sufficient Lead Time is Critical

It usually takes time to generate enough savings from energy efficiency programs to defer T&D system upgrades. The programs must be planned, developed, and then marketed to consumers before any savings are realized. Reaching a large segment of the eligible market requires on-going marketing and business development efforts. Initial strategies may not be as successful as anticipated, so programs are more likely to be successful if there is time to refine them in response to market feedback. As discussed above, PG&E's Delta Project did not have that luxury and, as a result, ended up falling short of overall savings goals and spending more per unit of savings than originally planned. Even though a very cost-effective strategy was identified part of the way through the project, there was not enough time for it to gain enough traction to offset the less effective results of some of the initially pursued elements. Sufficient lead time may also better enable efficiency program managers to demonstrate to T&D system planners and engineers that efficiency strategies are affecting localized peak loads. Parts of PGE's downtown Portland project ultimately failed to defer T&D upgrades not because the efficiency savings were inadequate, but rather because T&D planners and engineers did not have sufficient confidence that the savings would be achieved and be reliable and persistent.

To be sure, the amount of lead time necessary to enable efficiency programs to defer T&D investments will vary

69 For example, in July 2005, about six months after its proposal to construct a major new transmission line and make other related improvements was approved by the Vermont Board of Public Utilities, VELCO filed with the Board a revised cost estimate that was nearly double the estimate it had made two to three years earlier and presented during the course of the hearing on the project. In order of importance, the increase was attributed to a high rate of inflation for the materials and services needed, regulatory conditions of the approval, and better (higher) estimates of the materials it would need (State of Vermont Public Service Board, Order on Remand RE: Reopening Proceedings, Docket 6860, 9/23/2005).

from project to project. In general, shorter lead times will be needed when the number of customers that must be served by efficiency programs in order to generate sufficient savings is small. One key to ensuring there is sufficient lead time is to conduct more systematic planning for meeting T&D needs, including long-term forecasting of potential needs, integrating the forecasting of such needs with forecasting of savings from system-wide efficiency initiatives, and including analysis of potential additional, localized efficiency programs in early stages of assessment of options for meeting T&D needs.

Smaller is Easier

In general, the smaller the area being addressed, the easier it is to consider efficiency and other non-wires alternatives to T&D investments. Smaller areas mean that efficiency savings need to be acquired from fewer customers. That in turn means that it is often easier to characterize the opportunity for efficiency investments accurately. It also means that shorter lead times will be needed. For example, deferring a transformer upgrade on a single large commercial building may not require much time if one need just convince a single owner of the building to make an efficiency investment. Alternatively, deferring distribution substations or transmission lines serving many thousands of customers will usually take longer unless there are just a few large customers who, if served by an efficiency program, could impact localized peak demands significantly.

Distribution is Easier than Transmission

Deferring distribution system investments is generally easier than deferring transmission investments because the non-wires solutions will generally be smaller in scope (see discussion above). In addition, distribution system planning is generally less technically complex, involves fewer parties, does not involve regional ISOs/RTOs, and

does not involve regional cost-allocation frameworks that often bias investments in favor of “poles and wires” solutions.

Cross-Discipline Communication is Critical

This may seem self-evident, but it is critical nonetheless. T&D planners and engineers are often skeptical of the potential for end-use efficiency to reliably substitute for poles, wires, and other T&D “hardware.” They worry that customers themselves are unreliable. Similarly, staff responsible for administration of programs that promote efficiency, load control, distributed generation, or other demand resources typically do not fully understand the complexities of the reliability issues faced by T&D system planners. Both need to better understand the needs and capabilities of the other.

It can take time to develop the relationships and confidence necessary for efficiency program implementers and their evaluated results and T&D system engineers to work together effectively. Those relationships and that trust must be developed, however, if efficiency programs are to be as successful as possible in deferring T&D investments.

Upper management can be very important in setting expectations that such communication and cross-discipline learning take place within a utility. It is much more difficult to institutionalize such communication when transmission planning has regional elements and implications that necessarily involve the ISO/RTO.

Integrate Efficiency with Other Distributed Resources

Although efficiency programs can sometimes be sufficient to defer T&D investments, other times they will not be. They can, however, be married with promotion of demand-response and distributed generation initiatives to meet the same objective.

4. Recommendations

Though several pilot projects in the past and some more substantial projects today appear to have demonstrated that efficiency programs can be a cost-effective T&D resource, such efforts remain uncommon. Put another way, the potential economic and other benefits of using geographically targeted efficiency programs as a T&D resource are largely being ignored today. Some fundamental policy changes are required if that is to change. In this concluding section of the paper we discuss the policies that should be explored if efficiency's potential is to be realized.

Require Least-Cost T&D Planning

As noted above, both economic incentives in many states and system planning culture have made “poles and wires” (or T&D hardware) the default solution to T&D-related reliability issues almost everywhere. Experience to date suggests that the only way that will change is if T&D planners are required by legislators or regulators to analyze alternatives and choose the least-cost option.⁷⁰

Over the past decade, several jurisdictions have institutionalized such processes. Several notable examples are summarized below. There are certainly costs to such processes – both for the utilities doing the planning and for regulatory oversight. Feedback from several jurisdictions, however, suggests that the process evolves – as it is tested and refined – to one in which the burden on the utility is not only manageable but also much more than offset by cost savings. Once that point is reached and utilities are meeting a high standard in their work, the burden on regulators should be quite modest.

Rhode Island

In 2006, Rhode Island adopted a “System Reliability Procurement” policy that requires utilities to submit system reliability procurement plans every three years. Guidelines detailing what to include in those plans were adopted more recently (see Appendix A). Those guidelines make clear that plans must consider non-wires alternatives – including energy efficiency, distributed generation, and demand response – whenever the T&D need:

- Is not based on an asset condition;
- Will likely cost more than \$1 million to address;
- Would require no more than a 20% reduction in peak load to defer; and
- Would not require investment in a “wires solution” to begin for at least 36 months.

For such cases, the plans must include analysis of financial impacts, risks, the potential for synergistic benefits, and other aspects of both wires and non-wires alternatives.⁷¹

Vermont

Vermont has long imposed an integrated resource planning requirement on its utilities. However, the passage of Act 61 in 2005 – which reinforced those requirements by specifying minimum 10-year planning horizons, required the plans to be filed at least every three years, and required public meetings (in areas close to potential T&D upgrades) at which plans are presented (see Appendix B for legislative language) – has begun to make the process more rigorous. Indeed, VELCO and Efficiency Vermont are now working together to regularly reconcile and integrate

70 Note that this works only to the extent that states actually control the planning process. Although they do for distribution system investments, responsibility for transmission planning decisions is shared with regional ISOs/RTOs. That has lessened states ability to effectively impose least-cost planning requirements. Recent FERC Order 1000, which requires ISOs/RTOs to consider state policies in planning decisions, may give states more influence in the future.

71 Rhode Island Standards for Least Cost Procurement and System Reliability Planning.

their respective forecasts of baseline demand and efficiency program savings.⁷²

Bonneville Power Administration

Although not required by legislation or regulation, in 2002 BPA launched a Non-Wires Solutions (NWS) initiative in which it committed to investigating “least-cost solutions that may result in deferring potential transmission reinforcement projects.”⁷³ A year later, BPA formed a Non-Wires Solutions Round Table composed of key stakeholder groups in the region to assist it in these endeavors.⁷⁴ It then developed a formal process by which non-wires solutions – including energy efficiency, demand response, load control, and distributed generation – would be routinely assessed. To begin with, transmission planners annually assess potential transmission needs over the next 10 to 15 years. That assessment is tied to the Western Electricity Coordinating Council’s power flow and planning framework.⁷⁵ Once a transmission need is identified by BPA’s Transmission Business Line, an initial “screening” is conducted to determine whether the project is a candidate for possible non-wires solutions. A project qualifies for an analysis of non-wires solutions if it meets three criteria:

1. The transmission project cost is estimated to be at least \$5 million;
2. The project need is driven by load growth; and
3. The project need is at least eight years out.⁷⁶

If these criteria are met, a high level economic assessment is conducted using a simplified spreadsheet template that has been developed specifically for this purpose. The analysis includes all of the potential benefits of non-wires solutions. Estimates of energy savings and capacity savings benefits are based on results of the Northwest Power Planning Council’s integrated resource plans (conducted every five years). Avoided transmission costs are estimated for the specific project under consideration. If the analysis suggests both that there are sufficient non-wires resources to defer a project and that the deferral could be cost-effective, a detailed feasibility study is conducted. If that study confirms that the non-wires solution is indeed feasible, then the benefits, costs, and risks of both traditional transmission and non-wires solutions are compared to decide which strategies to pursue. This process is summarized in Figure 9. BPA went through this process on four different occasions between 2002 and 2006. In all of those cases a determination was made that the traditional transmission strategy was needed.

BPA recently reconvened its Non-Wires Round Table to consider new regional transmission needs in this same framework. Three potential non-wires projects are currently undergoing intensive analysis and discussion. Energy efficiency is an element of the non-wires solution being considered for both the I-5 corridor in Oregon and the Hooper Springs area in Idaho. Efficiency plays a more central role in a third potential project that has not yet been made public.⁷⁷

72 This has not been without its challenges, because assumptions about such things as treatment of baseline efficiency conditions, the level of “naturally occurring” efficiency (related to free rider assumptions in efficiency savings forecasts), and other key issues are sometimes different or inconsistent (see Enterline, Shawn and Eric Fox, *Integrating Energy Efficiency into Utility Load Forecasts*, in Proceedings of the 2010 ACEEE Summer Study on Energy Efficiency in Buildings, Volume 5, pp. 86-96).

73 GDS Associates, “Process Evaluation of the Non-Wires Solution Initiative,” prepared for BPA, June 8, 2007.

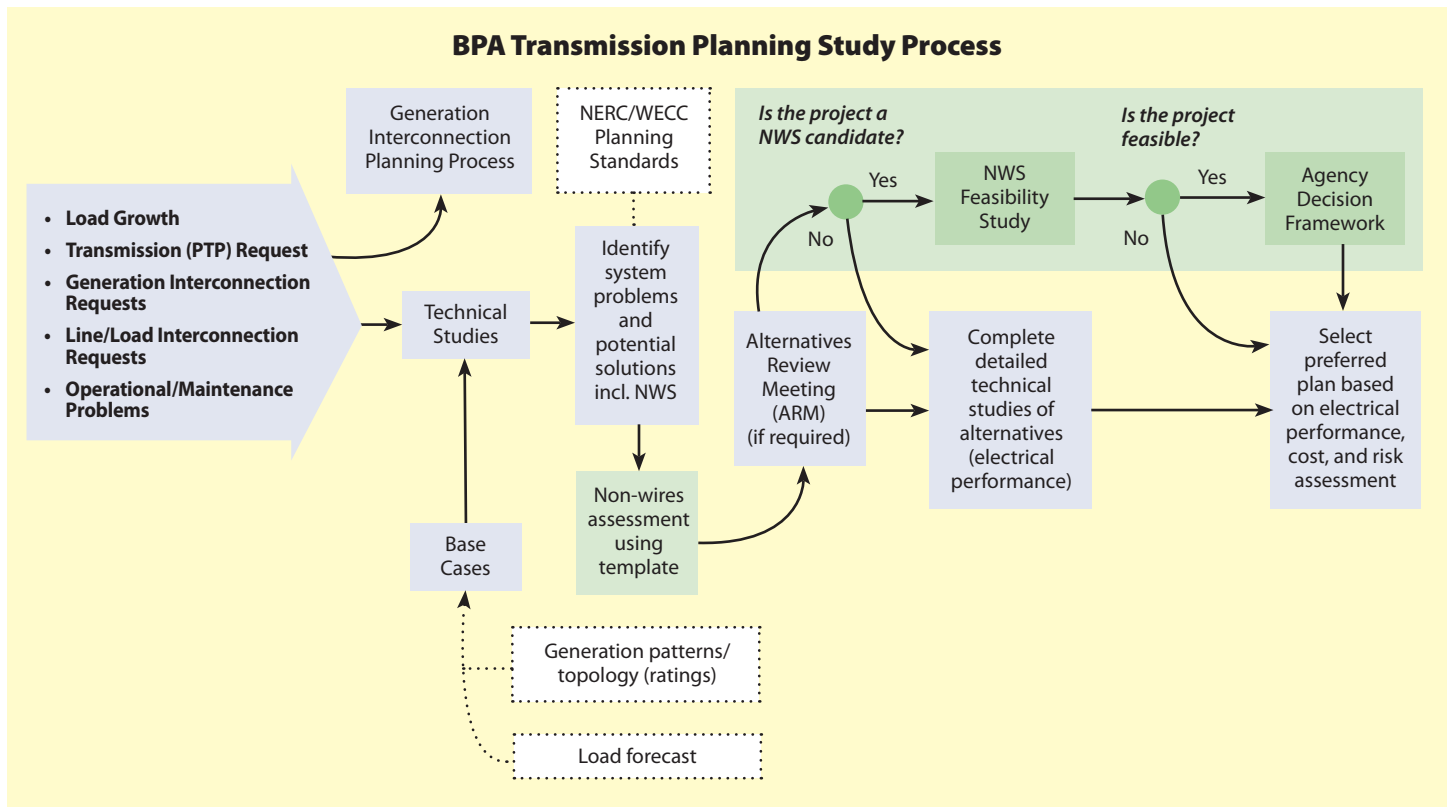
74 Although the Round Table has been organized to function collaboratively, its input is purely advisory. BPA makes all final decisions on how to address transmission needs.

75 Personal communication with Mike Weedall, Ottie Nabors, and Josh Binus, Bonneville Power Administration, 4/27/11.

76 Nabors, Ottie, “Non-Wires Alternatives Screening Process & Evaluation,” presentation at the Non-Wires Round Table, April 15, 2011.

77 Personal communication with Mike Weedall, BPA, 12/23/11.

Figure 9⁷⁸



Require Consideration of Integrated Solutions

Efficiency is one of several types of distributed resources – demand response, load control, and distributed generation are other notable examples – that can help to cost-effectively defer T&D investments. Indeed, there may be important synergies in combining deployment of efficiency and other distributed resources (e.g., efficiency and demand response and potentially even distributed generation can often be “sold” to customers more effectively if sold together). Any requirement for least-cost planning thus should make clear that all options, including different combinations of distributed resources, should be considered.

The ability for states to require either least-cost planning or consideration of integrated solutions is clear with respect to distribution system planning, but more complicated for transmission planning because of transmission’s regional implications and the involvement of regional ISOs/RTOs. Nevertheless, states have influenced transmission planning, and the recent FERC Order 1000, which requires ISOs/RTOs to consider state policies in their planning decisions, may give them more clout in the future.

Institutionalize a Long-Term Planning Horizon

The longer the lead time, the more likely it will be that efficiency (or other distributed resources) could cost-effectively defer traditional T&D investments. This suggests it is critical that assessments of T&D needs are both long-term and conducted on a regular basis. As noted above, although they are all still refining their processes, all of the jurisdictions that are currently seriously considering non-wires alternatives to T&D investments are routinely forecasting T&D needs at least 10 years into the future. Con Ed develops a 10-year plan for T&D needs. Vermont requires an annual plan that looks out a minimum of 10 years. VELCO, Vermont’s transmission utility, has chosen to forecast 20 years out. Similarly BPA looks at transmission needs 10 to 15 years into the future.

78 Graphic from Nabors, Ottie, “Non-Wires Alternatives Screening Process & Evaluation,” presentation at the Non-Wires Round Table, April 15, 2011.

“Level the Playing Field” in Payment for Wires and Non-Wires Alternatives

One of the biggest barriers to serious consideration of efficiency (and other demand resources) as alternatives to T&D investments is the unequal treatment of the costs of wires and non-wires solutions. For example, nearly 90% of the nearly \$290 million cost of VELCO’s Northwest Reliability Project in Vermont has been deemed by the New England ISO to be eligible for Pooled Transmission Facility (PTF) treatment – or spread across the New England region.⁷⁹ Because Vermont represents a relatively small portion of the total regional power pool load, its ratepayers pay only about 5% of PTF costs. Its rate-payers thus will ultimately bear less than 20% of total project costs. The ISO does not give PTF treatment to non-wires solutions. As a result, if the state had pursued a non-wires solution to its transmission reliability needs, it would have borne 100% of the costs of the project.

Such policies represent enormous disincentives to pursue non-wires solutions – even if they are less expensive than traditional transmission investments. Unbalanced treatment of wires and non-wires solutions needs to be addressed if least-cost solutions are to be routinely and seriously considered.

Collect More Data on Efficiency’s Impacts

In much of the country, relatively little end-use metered data on the hourly and seasonal impacts of efficiency resources has been collected and made public over the past two decades. As a result, many jurisdictions now rely on very old end-use metering studies when developing hourly load shapes for efficiency measures. Such load shapes are essential to estimating the impacts of efficiency resources on localized transmission or distribution system peaks (peak hours can vary considerably from one distribution

element to another, even within the same utility service territory). Having more data of this kind should make it easier to address concerns of T&D system planners.

It is worth noting that the New England region may be ahead of much of the rest of the country in this regard, in part because the region’s forward capacity market requires efficiency resource providers to use studies that are less than five years old to document achievement of the system peak demand savings that are bidding into the market. That requirement has resulted in a number of different end-use metering studies that have not only documented savings at the time of the regional system peak, but also at all other hours of the day. In many cases, the studies have been undertaken at the regional level – with all states sharing the cost – as a way to make them affordable.

Start with Pilot Projects

Virtually every jurisdiction that genuinely considered efficiency as a potential cost-effective alternative to T&D investments started with pilot projects. Much has been learned from those pilots. The pilots also offered important venues for facilitating the mutual education of system engineers and efficiency program managers. Experience to date suggests that a pilot project or two will not bridge the cultural chasms between these two groups. They can be important steps in that process, however.

Leverage “Smart Grid” Investments

A number of utilities have recently made or are about to make significant investments in advanced metering, customer feedback mechanisms, and other “smart grid” features. Customer and end-use data collected through such systems may enable better assessments of the potential for efficiency to serve as a T&D resource in general, and perhaps more important, in specific geographic areas.

79 ISO New England, “Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff” – Status as of 2/18/2011 (http://www.iso-ne.com/trans/pp_tca/status/tca_application_status.pdf)

Appendix A

Rhode Island Standards for Least Cost Procurement and System Reliability Planning – Excerpt on Distributed Resources in Relation to T&D Investment

Chapter 2 - System Reliability Procurement

Section 2.1 Distributed/Targeted Resources in Relation to T&D Investment

- A. The Utility System Reliability Procurement Plan (“The SRP Plan”) to be submitted for the Commission’s review and approval on September 1, 2011 and triennially thereafter on September 1, shall propose general planning principles and potential areas of focus that incorporate non-wires alternatives (NWA) into the Company’s distribution planning process for the three years of implementation beginning January 1 of the following year.
- B. Non-Wires Alternatives (NWA) may include but are not limited to:
- Least Cost Procurement energy efficiency baseline services
 - Peak demand and geographically-focused supplemental energy efficiency strategies
 - Distributed generation generally, including combined heat and power and renewable energy resources (predominately wind and solar, but not constrained)⁸⁰
 - Demand response
 - Direct load control
 - Energy storage
 - Alternative tariff options
- C. Identified transmission or distribution (T&D) projects with a proposed solution that meet the following criteria will be evaluated for potential NWA that could reduce, avoid or defer the T&D wires solution over an identified time period.
- The need is not based on asset condition;
 - The wires solution, based on engineering judgment, will likely cost more than \$1 million;
 - If load reductions are necessary, then they are expected to be less than 20 percent of the relevant peak load in the area of the defined need;
- d. Start of wires alternative is at least 36 months in the future; and
A more detailed version of these criteria may be developed by the distribution utility with input from the Council and other stakeholders.
- D. Feasible NWA will be compared to traditional solutions based on the following:
- Ability to meet the identified system needs
 - Anticipated reliability of the alternatives
 - Risks associated with each alternative (licensing and permitting, significant risks of stranded investment, sensitivity of alternatives to differences in load forecasts, emergence of new technologies)
 - Potential for synergy savings based on alternatives that address multiple needs
 - Operational complexity and flexibility
 - Implementation issues
 - Customer impacts
 - Other relevant factors
- E. Financial analyses of the preferred solution(s) and alternatives will be conducted to the extent feasible. The selection of analytical model(s) will be subject to Public Utilities Commission review and approval. Alternatives may include the determination of deferred investment savings from NWA through use of net present value of the deferred revenue requirement analysis or the net present value of the alternatives according to the Total Resource Cost Test (TRC). The selection of an NWA shall be informed by the considerations approved by the Public Utilities Commission which may include, but not be limited to, those issues enumerated in (D), the deferred revenue requirement savings and an evaluation of costs and benefits according to the TRC. Consideration of the net present value of resulting revenue

⁸⁰ In order to meet the statute’s environmental goals, generation technologies must comply with all applicable general permitting regulations for smaller-scale electric generation facilities.

requirements may be used to inform the structure of utility cost recovery of NWA investments and to assess anticipated ratepayer rate and bill impacts.

F. For each need where an NWA is the preferred solution, the distribution utility will develop an implementation plan that includes the following:

- a. Characterization of the need
 - i. Identification of the load-based need, including the magnitude of the need, the shape of the load curve, the projected year and season by which a solution is needed, and other relevant timing issues
 - ii. Identification and description of the T&D investment and how it would change as a result of the NWA
 - iii. Identification of the level and duration of peak demand savings and/or other operational functionality required to avoid the need for the upgrade
 - iv. Description of the sensitivity of the need and T&D investment to load forecast assumptions
- b. Description of the business as usual upgrade in terms of technology, net present value, costs (capital and O&M), revenue requirements, and schedule for the upgrade
- c. Description of the NWA solution, including description of the NWA solution(s) in terms of technology, reliability, cost (capital and O&M), net present value, and timing
- d. Development of NWA investment scenario(s)
 - i. Specific NWA characteristics
 - ii. Development of an implementation plan, including ownership and contracting considerations or options
 - iii. Development of a detailed cost estimate (capital and O&M) and implementation schedule

G. Funding Plan

The Utility shall develop a funding plan based on the following sources to meet the budget requirement of the system reliability procurement plan. The Utility may propose to utilize funding from the following sources for system reliability investments:

- i. Capital funds that would otherwise be applied towards traditional wires based alternatives

- ii. Existing Utility EE investments as required in Section I of these Standards and the resulting Annual Plans
- iii. Additional energy efficiency funds to the extent that the NWA can be shown to pass the TRC test with a benefit to cost ratio of greater than 1.0 and such additional funding is approved
- iv. Utility operating expenses to the extent that recovery of such funding is explicitly allowed
- v. Identification of significant customer contribution or third party investment that may be part of an NWA based on benefits that are expected to accrue to the specific customers or third parties
- vi. Any other funding that might be required and available to complete the NWA

H. Annual SRP Plan reports should be submitted on November 1. Such reports will include but are not limited to:

- a. A summary of projects where NWA were considered;
- b. Identification of projects where NWA were selected as a preferred solution; and a summary of the comparative analysis following the criteria outlined in sections (D) and (E) above;
- c. Implementation plan for the selected NWA projects;
- d. Funding plan for the selected NWA projects;
- e. Recommendations on pilot distribution and transmission project alternatives for which it will utilize selected NWA reliability and capacity strategies. These proposed pilot projects will be used to inform or revise the system reliability procurement process in subsequent plans;
- f. Status of any previously selected and approved projects and pilots;
- g. Identification of any methodological or analytical tools to be developed in the year;
- h. Total SRP Plan budget, including administrative and evaluation costs.

I. The Annual SRP Plan will be reviewed and funding approved by the Commission prior to implementation.

Appendix B

Excerpts from Vermont's Act 61

Sec. 8. Advocacy For Regional Electricity Reliability Policy

It shall be the policy of the state of Vermont, in negotiations and policy-making at the New England Independent System Operator, in proceedings before the Federal Energy Regulatory Commission, and in all other relevant venues, to support an efficient reliability policy, as follows:

- (1) When cost recovery is sought through region-wide regulated rates or uplift tariffs for power system reliability improvements, all available resources – transmission, strategic generation, targeted energy efficiency, and demand response resources – should be treated comparably in analysis, planning, and access to funding.
- (2) A principal criterion for approving and selecting a solution should be whether it is the least-cost solution to a system need on a total cost basis.
- (3) Ratepayers should not be required to pay for system upgrades in other states that do not meet these least-cost and resource-neutral standards.
- (4) For reliability-related projects in Vermont, subject to the review of the public service board, regional financial support should be sought and made available for transmission and for distributed resource alternatives to transmission on a resource-neutral basis.
- (5) The public service department, public service board, and attorney general shall advocate for these policies in negotiations and appropriate proceedings before the New England Independent System Operator, the New England Regional Transmission Operator, the Federal Energy Regulatory Commission, and all other appropriate regional and national forums. This subdivision shall not be construed to compel litigation or to preclude settlements that represent a reasonable advance to these policies.
- (6) In addressing reliability problems for the state's electric system, Vermont retail electricity providers and transmission companies shall advocate for regional cost support for the least cost solution with equal consideration and treatment of all available resources, including transmission, strategic distributed generation, targeted energy efficiency, and demand response resources on a total cost basis. This subdivision shall not be construed to compel litigation or to preclude settlements that represent a reasonable advance to these policies.

TRANSMISSION AND DISTRIBUTION PLANNING

Sec. 9. 30 V.S.A. § 218c is amended to read:

§ 218C. Least Cost Integrated Planning

- (d)(1) Least cost transmission services shall be provided in accordance with this subsection. Not later than July 1, 2006, any electric company that does not have a designated retail service territory and that owns or operates electric transmission facilities within the state of Vermont, in conjunction with any other electric companies that own or operate these facilities, jointly shall prepare and file with the department of public service and the public service board a transmission system plan that looks forward for a period of at least ten years. A copy of the plan shall be filed with each of the following: the house committees on commerce and on natural resources and energy and the senate committees on finance and on natural resources and energy. The objective of the plan shall be to identify the potential need for transmission system improvements as early as possible, in order to allow sufficient time to plan and implement more cost-effective non-transmission alternatives to meet reliability needs, wherever feasible. The plan shall:
 - (A) identify existing and potential transmission system reliability deficiencies by location within Vermont;
 - (B) estimate the date, and identify the local or regional load levels and other likely system conditions at which these reliability deficiencies, in the absence of further action, would likely occur;
 - (C) describe the likely manner of resolving the identified deficiencies through transmission system improvements;
 - (D) estimate the likely costs of these improvements;
 - (E) identify potential obstacles to the realization of these improvements; and
 - (F) identify the demand or supply parameters that generation, demand response, energy efficiency or other non-transmission strategies would need to address to resolve the reliability deficiencies identified.
- (2) Prior to the adoption of any transmission system plan, a utility preparing a plan shall host at least two public meetings at which it shall present a draft of the plan and facilitate a public discussion to identify and evaluate non-transmission alternatives. The meetings shall be at separate locations within

the state, in proximity to the transmission facilities involved or as otherwise required by the board, and each shall be noticed by at least two advertisements, each occurring between one and three weeks prior to the meetings, in newspapers having general circulation within the state and within the municipalities in which the meetings are to be held. Copies of the notices shall be provided to the public service board, the department of public service, any entity appointed by the public service board pursuant to subdivision 209(d)(2) of this title, the agency of natural resources, the division for historic preservation, the department of health, the scenery preservation council, the agency of transportation, the attorney general, the chair of each regional planning commission, each retail electricity provider within the state, and any public interest group that requests, or has made a standing request for, a copy of the notice. A verbatim transcript of the meetings shall be prepared by the utility preparing the plan, shall be filed with the public service board and the department of public service, and shall be provided at cost to any person requesting it. The plan shall contain a discussion of the principal contentions made at the meetings by members of the public, by any state agency, and by any utility.

(3) Prior to the issuance of the transmission plan or any revision of the plan, the utility preparing the plan shall offer to meet with each retail electricity provider within the state, with any entity appointed by the public service board pursuant to subdivision 209(d)(2) of this title, and with the department of public service, for the purpose of exchanging information that may be relevant to the development of the plan.

(4)(A) A transmission system plan shall be revised:

- (i) within nine months of a request to do so made by either the public service board or the department of public service; and
- (ii) in any case, at intervals of not more than three years.

(B) If more than 18 months shall have elapsed between the adoption of any version of the plan and the next revision of the plan, or since the last public hearing to address

a proposed revision of the plan and facilitate a public discussion that identifies and evaluates nontransmission alternatives, the utility preparing the plan, prior to issuing the next revision, shall host public meetings as provided in subdivision (2) of this subsection, and the revision shall contain a discussion of the principal contentions made at the meetings by members of the public, by any state agency, and by any retail electricity provider.

(5) On the basis of information contained in a transmission system plan, obtained through meetings held pursuant to subdivision (2) of this subsection, or obtained otherwise, the public service board and the department of public service shall use their powers under this title to encourage and facilitate the resolution of reliability deficiencies through nontransmission alternatives, where those alternatives would better serve the public good. The public service board, upon such notice and hearings as are otherwise required under this title, may enter such orders as it deems necessary to encourage, facilitate or require the resolution of reliability deficiencies in a manner that it determines will best promote the public good.

(6) The retail electricity providers in affected areas shall incorporate the most recently filed transmission plan in their individual least cost integrated planning processes, and shall cooperate as necessary to develop and implement joint least cost solutions to address the reliability deficiencies identified in the transmission plan.

(7) Before the department of public service takes a position before the board concerning the construction of new transmission or a transmission upgrade with significant land use ramifications, the department shall hold one or more public meetings with the legislative bodies or their designees of each town, village, or city that the transmission lines cross, and shall engage in a discussion with the members of those bodies or their designees and the interested public as to the department's role as public advocate.

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Other recent RAP publications on energy efficiency include the following:

Residential Efficiency Retrofits: A Roadmap for the Future

Roughly half of all efficiency and/or carbon emission reduction in North American and European buildings can be achieved through retrofit improvements to existing homes. In this publication, RAP offers a roadmap to help policymakers and practitioners design and implement a comprehensive residential retrofit strategy. We present eight principles for success based on two decades of international experience, designed to achieve the level of energy savings that will be needed to address the challenge of climate change.

The Executive Summary of this report is available separately in English and German at: <http://raponline.org/document/download/id/4424>.

The full report is available at: <http://www.raponline.org/document/download/id/918>

Prices and Policies: Carbon Caps and Efficiency Programmes for Europe's Low-Carbon Future

This paper was presented at the 2011 ECEEE Summer Study.

With the adoption of the Climate and Energy Package in 2008, European decision-makers created an integrated suite of policies to reduce carbon emissions, increase renewable energy production, and advance energy savings. As the EU ETS moves to carbon auctioning, decision-makers must continue to link carbon prices with other policy tools to meet Europe's adopted carbon and sustainable development goals. This paper demonstrates how energy efficiency (EE) policies can help meet ETS goals at lower cost, creating space to tighten carbon caps, and/or reduce the cost of protecting high-emitting industries and new Member States. Smart "complementary policies" can directly link ETS and EE strategies, especially by using auction revenue for EE programmes. Complementary policies are

also needed to support low-carbon power markets, grid expansion, and renewable power investment across Europe.

The full paper is available at: <http://www.raponline.org/document/download/id/931>

Who Should Deliver Ratepayer Funded Energy Efficiency? A 2011 Update

This report describes policy options and approaches for administering ratepayer-funded electric energy efficiency programs in US states. It reviews how states have administered energy efficiency programs to learn what lessons their experience offers, and describes the most important factors states should consider with different administrative models. State legislators and utility regulators will find this report useful as they consider ways for energy efficiency administration to be more effective, both in states that are considering the question for the first time, and in more experienced states that are implementing significant increases in their savings goals. RAP's first version of this report was written in 2003.

The full report is available at: <http://www.raponline.org/document/download/id/4707>

Valuing the Contribution of Energy Efficiency to Avoided Marginal Line Losses and Reserve Requirements

While utilities and their regulators are familiar with the energy savings that energy efficiency measures can provide, they may not be aware of how these same measures also provide very valuable peak capacity benefits in the form of marginal reductions to line losses that are often overlooked in the program design and measure screening. This paper is the first of two that the Regulatory Assistance Project is publishing on the relationship between energy efficiency and avoiding line losses.

The full report is available at: <http://www.raponline.org/document/download/id/4537>

Achieving Energy Efficiency: A Global Best Practices Guide on Government Policies

This best practices guide provides a summary overview of the most effective policy mechanisms that regional, national, state or local governments at the executive, legislative or regulatory level can adopt to achieve significant energy efficiency in buildings, processes and equipment used in the residential, commercial, industrial, public and institutional sectors. By policy mechanism, we mean specific laws, regulations, processes and implementation strategies that foster the development and use of products and services which require less energy input to deliver the same or more productivity and output. Our focus is on how government policies can accelerate and increase efficiency investments to achieve additional savings. We do not address best practices in the design or delivery of efficiency programs that would flow from these policies. Nor do we address tariff structures or energy pricing and financing tools that can be employed to help end users invest in efficiency.

The full report is available at: <http://www.raonline.org/document/download/id/4781>

Regulatory Mechanisms to Enable Energy Provider Delivered Energy Efficiency

The Regulatory Mechanisms to Enable Energy Provider Delivered Energy Efficiency paper identifies varied, but complementary, government regulatory mechanisms utilized worldwide to mobilize the resources of energy providers to implement investments in energy. The paper identifies and describes twelve types of regulatory mechanisms that governments use effectively to: mobilize energy provider investments directly; facilitate investments in demand-side resources; or implement policies and programs that underpin important elements of successful investment programs. The paper also explains how each regulatory mechanism functions in different market settings to mobilize resources or enable effective programs, identifies key issues that ensure successful implementation, and then outlines an example of how at least one jurisdiction has achieved successful implementation of the mechanism.

The full report is available at: <http://www.raonline.org/document/download/id/4872>

*Other documents on energy efficiency and other topics are available on
The Regulatory Assistance Project website at:
www.raonline.org*

Acronym Glossary

| | | | |
|------------------|--|-----------------|---|
| ACEEE | American Council for an Energy Efficient Economy | ISO | Independent System Operator |
| AMI | Advanced Metering Infrastructure | NERC | North American Electric Reliability Council |
| BPA | Bonneville Power Administration | NWS | Non-Wires Solutions |
| C & I | Commercial and Industrial | PGE | Portland General Electric |
| CFLs | Compact Fluorescent Light Bulbs | PG&E | Pacific Gas and Electric |
| CMP | Central Maine Power | PTF | Pooled Transmission Facility |
| Con Ed | Consolidated Edison | PTP | Point-to-point |
| DR | Demand Response | RTO | Regional Transmission Organization |
| DSM | Demand-Side Management | SPWG | State Program Working Group |
| EI | Edison Electric Institute | SRP | System Reliability Procurement |
| EPRI | Electric Power Research Institute | T&D | Transmission and Distribution |
| ESCO | Energy Service Company | TRC | Total Resource Cost |
| FCM | Forward Capacity Market | VELCO | Vermont Electric Power Company |
| FERC | Federal Energy Regulatory Commission | VSPC | Vermont System Planning Committee |
| GMP | Green Mountain Power | WECC | Western Electricity Coordinating Council |



The Regulatory Assistance Project (RAP) is a global, non-profit team of experts focused on the long-term economic and environmental sustainability of the power and natural gas sectors. We provide technical and policy assistance on regulatory and market policies that promote economic efficiency, environmental protection, system reliability and the fair allocation of system benefits among consumers. We have worked extensively in the US since 1992 and in China since 1999. We added programs and offices in the European Union in 2009 and plan to offer similar services in India in the near future. Visit our website at www.raponline.org to learn more about our work.



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Shawna Senko

From: Bradley Marshall <bmarshall@earthjustice.org>
Sent: Tuesday, March 25, 2014 11:05 AM
To: Records Clerk
Subject: Comments for Docket No. 130301-EI
Attachments: Docket No. 130301-EI - Sierra Club & Earthjustice Comments.pdf

Hello,

Please find attached to this e-mail comments from Sierra Club and Earthjustice as interested persons to Docket No. 130301-EI. If you have any questions or concerns, or would like a hard copy of the attached comments, please do not hesitate to ask. Thank you.

Sincerely,
Bradley Marshall

Bradley Marshall
Associate Attorney
Earthjustice Florida Office
111 S. Martin Luther King Jr. Blvd.
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March 25, 2014

Ms. Carlotta S. Stauffer
Director, Office of Commission Clerk
Florida Public Service Commission
2540 Shumard Oak Blvd.
Tallahassee, Florida 32399-0850

Re: Docket No. 130301-EI, Petition To Modify Scope Of Existing Environmental Program By Duke Energy Florida, Inc.

Earthjustice and Sierra Club, on behalf of Sierra Club's over twenty-nine thousand Florida members, file these comments to reiterate that Duke Energy Florida, Inc. (Duke) should retire Crystal River units 1 and 2 (CR South) by 2016 because additional Mercury and Air Toxics Standards (MATS) compliance expenditures are not prudent. As we have shown in a series of filings before the Commission in recent years, Duke has yet to submit a plan for providing customers low-cost, low-risk power. *See* 2012 and 2013 Ten-Year Site Plan Comment Letters, attached as Exhibits A, B, and C ("TYSP Comments"). Duke continues this pattern here by failing to give the Commission—and the public—a full accounting of the costs associated with Duke's plan to temporarily comply with MATS while continuing to operate CR South. By presenting merely two options—continued operation of CR South or purchasing power—Duke offers a myopic and an unduly narrow account of what is possible over the next five years, until Duke's binding commitment to stop burning coal at CR South takes effect in 2020. Clean, low-cost, low-risk alternatives would allay concerns regarding Duke's over-reliance on natural gas. They would also continue to serve Duke's load requirements long after 2020. Yet Duke's plan for CR South would forgo any serious effort to advance such alternatives, instead opting to sink millions into old coal units that must go offline in six years to comply with the Regional Haze Rule. This is far from prudent.

The Commission should deny Duke's Petition for three key reasons: First, Duke has not fully accounted for the costs of continuing operations at CR South, especially the additional, reasonably foreseeable environmental compliance costs that arise within the next six years. Second, in the Petition and publicly available filings in Docket No. 130301-EI, Duke fails to account for how energy efficiency—the lowest-cost, lowest-risk resource—could help meet load requirements in the absence of CR South. Third, Duke has given short shrift to renewable resources, another low-cost, low-risk alternative, which could take the form of short or long-term power purchase agreements, expanded distributed generation, and even utility-scale renewable systems built by Duke to serve load requirements by 2018 and beyond.

For these three reasons, detailed below, Earthjustice and Sierra Club maintain that Duke should retire CR South in 2016 and the Commission should deny Duke's petition. Section I discusses why additional MATS compliance expenditures are imprudent and liable to run up CR South's environmental compliance tab. Sections II and III show that to protect customers from any risk associated with retiring CR South and the possible over-dependence on natural gas which this retirement may promote, it is incumbent on Duke to emphasize efficiency and renewable energy options as alternatives to coal- and gas-burning capacity in resource planning.

I. Duke's Proposed Retrofit Is Imprudent and Duke Should Retire CR South Given The Hundreds of Millions of Additional Costs And Other Risks Associated With Continued Operation That Duke Has Failed to Disclose.

The continued operation of CR South is uneconomic for many reasons. Earthjustice and Sierra Club have repeatedly voiced our chief concern that new environmental rules will be taking effect and rendering CR South uneconomic. Compliance costs of EPA rules expected to take effect in the next six years alone will easily cost over \$1 billion for CR South, dwarfing the estimated regulatory cost submitted by Duke in this docket. Units 1 and 2 were originally brought online in the late 1960s, and are operating without major pollution controls, including smokestack scrubbers. These units are an increasingly bad deal for Duke's customers: In addition to posing a serious threat to public health, as discussed in our earlier comments, they would require hundreds of millions of dollars more in compliance costs to operate—even in the short term. *See* 2012 TYSP Comments, Ex. A

Further, utilities and regulators around the country are recognizing that rising pollution control and fuel costs make coal power uneconomic. The Energy Information Administration (EIA) reports that since November 2013 utilities and generators have announced the planned retirement of 5,360 MW of coal-burning generation. *See* EIA, *Planned coal-fired power plant retirements continue to increase* (Mar. 20, 2014), <http://www.eia.gov/todayinenergy/detail.cfm?id=1549> ("EIA Coal Forecast"). Duke has a responsibility to address this industry trend favoring retirement over retrofit in Duke's plans surrounding CR South. Instead, through a piece-meal approach that only acknowledges two out of the possible six or more EPA rules that will impact CR South's continued operation over the relevant planning horizon, through 2020 and beyond, Duke has failed to substantiate the prudence of the proposed MATS and BART-only compliance expenditures. As detailed below, the upcoming EPA rules will impact CR South over the next few years, with some rules possibly impacting the units as early as this year. The resulting multi-million dollar life-extension projects that the aging units 1 and 2 would require to operate over the next six years—and that Duke has failed to disclose here—render these units uneconomic, consistent with the industry trend.

- a. Impacts Of Dry Sorbent Injection On Electrostatic Precipitator (ESP) Performance – Approximately \$125 Million More in Compliance Costs

To show that the proposed MATS compliance measures will actually result in MATS compliance, Duke performed several test burns at CR South, monitoring emissions under several test conditions. The test burn results suggest—but Duke has failed to disclose—that Duke would have to spend approximately \$125 million for baghouses to comply with MATS, even for just the few years CR South would operate beyond April 2016.

Recall that Duke's test conditions included the use of coal from a different source (West Elk Colorado coal as opposed to the normal Central Appalachian coal), and the addition of hydrated lime and activated carbon as injectants at varying rates. While these test results demonstrate that Duke *may* be able to meet the MATS emissions limitations using a combination of West Elk Coal, hydrated lime injection, *and* activated carbon injection, these test results also include very worrying data regarding the performance of the ESP in its ability to remove particulate matter (PM) from the emissions of CR South.

As shown in attached Exhibit D, the MATS test burn results show a marked increase in PM emissions over the baseline emissions established during the first test runs. Further, the test burn results show that PM emissions more than doubled during the test trials using hydrated lime and/or activated carbon. No surprise here; DSI can inhibit the efficiency of ESPs. Although Duke claims that Duke will make changes to CR South's ESP, such changes would likely be insufficient for Duke to avoid New Source Review, or to avoid going over PM emission limits (currently set at 0.1 lb/MMBtu). New Source Review is triggered by the addition of a "significant" increase of a criteria pollutant, defined as 25 tons per year, including PM, due to any kind of modification. As the test burn results show, New Source Review will be triggered by Duke's current MATS compliance plan, which will require the installation of the best available control technology. 42 U.S.C. § 7475. Based on the MATS test burn results, for example, for Crystal River unit 1, PM emissions for the baseline averaged approximately 0.05 lb/MMBtu (this baseline is not necessarily the baseline the utility would use in New Source Review calculations, but is illustrative of the approximate baseline Duke Energy would need to use). At 92% load, using the West Elk coal and the hydrated lime and activated carbon, PM was emitted at a rate of 0.119 lb/MMBtu, more than double the baseline rate under the same loading conditions. Heat input at the time was about 3,400 MMBtu per hour. PM was emitted at a rate of 0.069 lb/MMBtu in excess of baseline conditions. At that rate of excess emissions, Crystal River unit 1 will emit over 1,000 pounds of extra PM a year over baseline, well over significance thresholds. Crystal River unit 2 produced almost identical MATS test burn results.

To control the increased PM emissions due to the inhibited ESP performance, comply with current permit limits, and comply with New Source Review, Duke will have to install baghouses under the current MATS compliance plan for CR South. This retrofit will cost Duke—and Duke's customers—approximately \$125 million. *See* attached Exhibit E (showing approximate costs of baghouse retrofit on coal unit). This is not the only area where Duke has grossly underestimated the environmental compliance costs of continuing to operate CR South.

b. 1-Hour SO₂ National Ambient Air Quality Standards – Approximately \$445 Million More in Compliance Costs

MATS compliance aside, CR South will require a scrubber to comply with the SO₂ National Ambient Air Quality Standards (“NAAQS”), *see* 40 C.F.R. § 50.17, which would cost Duke—and Duke’s customers—approximately \$445 million. *See* Exhibit F, BART documentation at 47. The NAAQS are public health protections that aim to maintain the air quality at the minimum standard needed to protect public health. The new 1-hour annual ambient air quality standard for SO₂ is 7 parts per billion. As shown in the attached Exhibit G, Crystal River SO₂ emissions cause gross violations of this standard that Duke will be forced to correct.

More specifically, emissions at Crystal River will have to be reduced by 79.1%, with an average SO₂ emission rate of 0.25 lbs/MMBtu. *See* Exhibit G at 4. Based on the test burn results provided by Duke regarding MATS compliance, switching to lower sulfur coal for units 1 and 2 for MATS compliance will aid with NAAQS compliance, but not nearly enough to achieve full compliance. According to the Continuous Emissions Monitoring data during the test burn time period, and excluding when Appalachian coal was used (as SO₂ emissions were significantly higher during this time period, thus making the following analysis more conservative, assuming *arguendo* that Duke will switch to a lower sulfur coal), *see* Exhibit D, Crystal River unit 1 emissions for SO₂ averaged 0.739 lbs/MMBtu while burning low sulfur coal, and had an average heat input of 2954 MMBtu/hour. Notably, this average heat input rate is lower than normal for Crystal River unit 1, as Duke performed the test burn with loads as low as 70%, and only as high as 92% (*see* Exhibit D, test burn results). Crystal River unit 2 averaged 0.710 lbs/MMBtu for SO₂, and had an average heat input of 3851 MMBtu/hour. Unit 4, as a basis for comparison and because the NAAQS compliance will have to be accomplished on a facility wide basis, averaged 0.120 lbs/MMBtu for SO₂, with an average heat input of 5709 MMBtu/hour. Unit 5 averaged 0.105 lbs/MMBtu for SO₂, with an average heat input of 5108 MMBtu/hour while operational. Even with the lower emissions rates from Crystal River units 4 and 5, the facility average for the plant was still 0.348 lbs/MMBtu for SO₂. Because of the conservative assumptions of these calculations, and the artificially lower loading at units 1 and 2 because of the nature of the MATS testing, in actual operation, this emissions rate is likely to be significantly higher, even assuming that Duke Energy will use low sulfur coal at units 1 and 2 as they did for most of the MATS compliance testing. In any case, this testing demonstrates that the Crystal River facility, because of units 1 and 2, is well in excess of the SO₂ emissions rate of 0.25 lbs/MMBtu needed for compliance with the NAAQS standard, even if Duke Energy switches to low sulfur coal (for the Continuous Emissions Monitoring Data used to calculate these averages, *see* Exhibit H).

This means that it is likely that a scrubber will be required for NAAQS compliance as long as CR South is operational. The installation of a scrubber at Crystal River will cost Duke Energy, and ultimately its ratepayers, approximately \$445 million. *See* Exhibit F, BART documentation at 47. As is clear by now, any investments in the

continued operation of CR South cannot be prudently incurred when such necessary and expensive environmental compliance measures are at hand.

c. Cross-State Air Pollution Rule – Approximately \$182 Million More in Compliance Costs

The Cross-State Air Pollution Rule, also known as the Good Neighbor Rule, is designed to prevent upwind states from causing violations of the NAAQS in downwind states. Complying with this Rule would require Duke to spend significant sums on NO_x allowances for CR South, if such allowances are even available on the market, or, more likely, Duke will have to retrofit CR South with selective catalytic reduction (SCR) at a cost of approximately \$182 million.

The Cross-State Air Pollution Rule, 76 Fed. Reg. 48 (Aug. 8, 2011) is currently before the United States Supreme Court. *See Environmental Protection Agency v. EME Homer City Generation*, No. 12-1182 (2013). Under this version of the Good Neighbor Rule, the historic baseline of NO_x emissions for ozone season for the entire Crystal River facility is 17,881 tons per ozone season each year. With the installation of selective catalytic reduction (SCR) on Crystal River units 4 and 5, NO_x emissions have fallen on a facility-wide basis for Crystal River, but have not decreased enough. Crystal River will get allocations to emit 2,850 tons of NO_x per ozone season per year, but in 2013, emitted 3,940.6 tons of NO_x during the ozone season. *See Exhibit I*. CR South, on its own, emitted a total of 2,706 tons of NO_x during the ozone season. Under the Cross-State Air Pollution Rule, CR South will only be allocated 892 tons of NO_x to emit during the ozone season. Therefore, Duke would have to spend significant sums on buying the allowances, needed to make up the shortfall, if available, or, more likely, Duke would have to retrofit CR South with SCR at a cost of approximately \$182 million. *See Exhibit F* at 49. Moreover, the Cross-State Air Pollution Rule could come into effect shortly after the Supreme Court renders a decision, which is expected this year. In other words, Duke—and Duke's customers—would likely face this cost by 2015 if CR South continues to operate.

d. Cooling Water Intake Structure Rule – Approximately \$45 to \$780 Million More in Compliance Costs

Another rule that will have a costly impact on CR South—likely between \$45 million and \$780 million—is the Cooling Water Intake Structure Rule, set to be finalized by April 17, 2014, *see Exhibit J*. This rule is intended to establish requirements under section 316(b) of the Clean Water Act. *See 76 Fed. Reg. 22174* (Apr. 20, 2011). The Rule would establish national requirements regarding the location, design, construction, and capacity of existing cooling water intake structures with a technology standard reflecting the best technology available for minimizing adverse environmental impact. The purpose of this is to minimize adverse environmental impacts by substantially reducing the harmful effects of impingement and entrainment that currently occurs at cooling intake structures. Large coal plants with once through cooling water, including CR South, cause the greatest harm. The environmental harm these structures cause is

immense, and thus, so are the proposed solutions by EPA. EPA proposed several options for addressing this problem. As shown in Duke's ten-year site plan, depending on which option EPA chooses, compliance costs for CR South would run between \$45 million and \$780 million. *See* Exhibit K at 42. EPA's decision should be published by the time the Commission makes a decision on this docket. Therefore, the Commission should include the expected environmental compliance costs of this rule in its consideration of Duke's Petition; there is absolutely no excuse for Duke's omission of such costs.

e. Coal Ash Residuals Rule

In 2010, EPA issued a proposed rule for regulating the disposal of coal combustion residuals under the Resource Conservation and Recovery Act. 75 Fed. Reg. 35,128 (June 21, 2010). Coal combustion residuals contain many harmful toxins, including mercury and arsenic. Coal ash spills around the country, most recently in the Dan River, illustrate the danger presented by coal combustion residuals which turn water into toxic sludge. Depending on the approach EPA adopts in the final rule, this could significantly increase the cost of disposal of coal combustion residuals, including for CR South. The final rule should be issued by December 2014.

f. Effluent Limitations Rule

EPA has also recently proposed an effluent limitations rule for existing power plants. 78 Fed. Reg. 34432 (June 7, 2013). Compliance will be required by July 2017. As noted by EPA, power plants alone contribute 50-60 percent of all toxic pollutants discharged to surface waters by all industrial categories currently regulated. EPA is considering 8 different regulatory options for establishing different technology standards that could include significant new treatment requirements to ensure coal power plants stop destroying our water. The costs for CR South to comply with this rule will certainly be millions of dollars, although an exact estimate is difficult considering it is unknown which option EPA will choose.

These new environmental compliance rules show that it will cost hundreds of millions of dollars, probably over \$1 billion, just to bring CR South into compliance with environmental regulations. Considering that CR South is already mandated to retire by the end of 2020, investments of such large sums of money cannot be considered to be prudently incurred. Duke Energy's ratepayers are already on the hook for the failed Crystal River unit 3 nuclear power plant, and for the proposed and now indefinitely postponed Levy Nuclear project. These ratepayers should not be on the hook for hundreds of millions of more dollars spent on a power plant that will not be able to produce power because of a mandatory retirement. As described in more detail in sections II and III, Duke should be investing its money in energy efficiency and renewable energy to meet the energy needs of Floridians, instead of wasting money on two aging coal units that have no future and must go offline by 2020 to comply with the Regional Haze Rule.

II. Energy Efficiency Is The Least-Cost, Least-Risk Resource, And The Commission Should Require Duke To Show To What Extent Energy Efficiency Investments Could Obviate The Need For The Proposed Expenditures.

Energy efficiency can rapidly produce hundreds of megawatts in savings; savings that are sufficient to replace, at least in part, load requirements now met by CR South. Notably, through utility-sponsored energy-saving measures Florida has already reduced total electric energy consumption by an estimated 8,937 gigawatt-hours (GWh), and achieved demand savings that have deferred the need for up to 60 typical 150 MW combustion turbine units. *See* FPSC, Annual Report on Activities Pursuant to FEECA (Sept. 2014), at 1 (“2014 FEECA Report”). The cost-effectiveness of such measures is beyond dispute. *See, e.g.,* Galligan et al., *Evaluation of Florida’s Energy Efficiency and Conservation Act* (Dec. 7, 2012) at 9 (concluding “Florida’s DSM program costs per unit of energy saved and capacity avoided are cost-effective compared with Florida’s average costs for electricity, and are in line with costs in similarly situated states.”); *see also* Billingsley et al., *The Program Administrator Cost of Saved Energy for Utility Customer-Funded Energy Efficiency Programs*, Lawrence Berkeley National Laboratory (Mar. 2014), at xi, attached as Exhibit L (reporting on energy efficiency program cost data from more than 100 program administrators in 31 states, primarily for the years 2009–2011 and finding that the national levelized cost of energy savings is 2.1 cents per kilowatt-hour, cheaper than any generation and most purchased power.).

Yet Duke’s Petition and the publicly available filings are virtually silent on efficiency. This omission is inexcusable because Earthjustice and Sierra Club have repeatedly called on Duke to fully incorporate efficiency into resource planning, including the plans for CR South, as required by Florida law and recommended by industry best practice. *See* TYSP Comments, Ex. A–C.

Efficiency is a viable option here. Recall that units 1 and 2 are currently rated to produce 370 MW and 499 MW net, in the summer months. *See* Document No. 00692-14, CR South Environmental Compliance Study (Dec. 2013), at 3. Further, Duke estimates that continued operation would reduce the nominal full output of the units by 15%, but the changes needed to the electrostatic precipitators may drive down output even further. *Id.* In sum, Duke needs less than 740 MW to replace the capacity from the two units.

Potentially, Duke could cost-effectively replace roughly half of this capacity with energy efficiency, if Duke were to match other utilities—including Duke’s very own sister subsidiaries—and move to incremental annual energy savings of 1% to 2% over the next five years. To be sure, Duke’s subsidiaries in North Carolina and Ohio are more than doubling and quadrupling the incremental annual energy savings rates of Duke’s Florida arm, thereby generating greater benefits for Duke’s customers in those states as summarized in the following table.

Table 1. Comparison of Job Growth, Net Benefits, and Participant Counts for Duke¹

| Scenario | Savings level by Duke Ohio | Savings level by Duke NC | Current Duke in Florida |
|---|-------------------------------|-----------------------------|----------------------------|
| Annual energy savings as a percent of sales (%) | 1.50% | 0.65% | 0.31% |
| Annual energy savings estimates (GWh) | 546 | 236 | 112 |
| Annual energy savings relative to savings by Duke Florida (%) | 485% | 210% | 100% |
| Potential net job creation in the first year (# of jobs) | 273 | 118 | 56 |
| Potential net benefits (lifetime) (\$000) | 3,023 | 1,310 | 623 |
| Potential program participants | 623,868 | 270,343 | 128,555 |

Given these disparate levels of energy savings and related benefits, the Commission should hold Duke to account for adding more energy efficiency to its power network as an alternative to CR South’s continued operation.

Earthjustice and Sierra Club also urge Duke to evaluate the potential for efficiency to address the transmission concerns cited in this docket. Utilities around the country are deferring expensive transmission and distribution system upgrades through geographically-targeted energy efficiency programs. For example, Con Edison has dispatched demand-side efficiency measures to improve grid reliability in New York City and has effectively deferred upgrades in more than one third of its distribution networks. See Neme et al., *US Experience with Efficiency as a Transmission and Distribution System Resource*, Regulatory Assistance Project (Feb. 2012), at ii, iii, attached as Exhibit M. Notably, Con Edison’s resulting savings were very close to forecast needs and provided more than \$300 million in net benefits to customers. *Id.* As another example, in 2008, NV Energy in Nevada used targeted demand-side management programs such as rebates on Energy Star Appliances, commercial retrofit incentives, and low-income weatherization to avoid new transmission lines to growing parts of the state, which saved customers money on their bills through end-use efficiency and through the avoidance of costly transmission upgrades. *Id.* at 16–17. Here, in addition to accounting for efficient transmission and distribution investments options, Duke should investigate targeted non-wires alternatives, which could create immediate reductions in peak demand, decreases in congestion, and actively defer some of the costly transmission investments that Duke is currently considering.

The time is particularly ripe for Duke to advance energy efficiency due to the sweeping changes in Duke’s power network, as discussed in our previous comment

¹ Synapse Energy Economics estimated potential DSM program impacts, excluding solar pilot programs, for Duke Florida regarding net job growth, net benefits, and program participants by scaling the current program impacts by Duke Florida to the levels currently achieved by Duke Ohio and Duke North Carolina. The summary of this analysis is presented in the table. Data source: Progress Energy “Progress Energy DSM Annual Report for Calendar Year 2012”, May 1, 2013; ACEEE, “Positive Returns: State Energy Efficiency Analyses Can Inform U.S. Energy Policy Assessments,” June 2008; and US EIA 861 database.

letters, including: closure of Crystal River unit 3, the finalization of long-delayed public health and environmental rules, flattening load requirements, and risky over-reliance on natural gas. Fortunately, Florida’s comprehensive resource planning processes—namely Ten-Year Site Planning and the Florida Energy Efficiency and Conservation Act goal-setting—require Duke to fully assess the potential demand-side and supply-side energy efficiency advancements in Duke’s Florida power network. Therefore, Duke should already be modeling the viability of energy efficiency as a resource option throughout its power network, and have the results readily available to present to the Commission here.

III. Renewable Resources Are Low-Risk, Low-Cost Alternatives And There Is No Excuse For Omitting Them As An Option Here.

Florida has some of the best potential for solar power in the country, yet only a small portion of Duke’s power network relies on solar generation or other renewable resources. By comparison, utilities around the country are opting to purchase renewable resources like solar power—even over natural gas—citing their low costs and risk-hedging value against fossil fuel-burning generation. Neighboring Georgia offers a good example: Within four years (2012–2016), Georgia Power Company will add over 700 MW of solar to its network. *See* Advanced Solar Initiative, <http://www.georgiapower.com/about-energy/energy-sources/solar/asi/advanced-solar-initiative.cshtml>; *see also*, Ivan Penn, *Georgia utility regulator: Sunshine State to lose solar race along with football title*, Tampa Bay Times (Nov. 19. 2013) <http://www.tampabay.com/news/business/energy/georgia-utility-regulator-sunshine-state-to-lose-solar-race-along-with/2153172>. The following table shows other recent examples of renewable power purchase agreements:

Table 2. 2013–2014 Examples of Renewable Power Purchase Agreements

| Date | State | Utility | Resource | MW | Cost | Source |
|-------------|--------------|-------------------------------------|-----------------|-----------------|---|---|
| 11/8/13 | NM | El Paso Electric Company | Solar | 35 | \$57.90/MWh | NM Public Regulation Commission Case No. 12-00386-UT |
| 11/8/13 | NM | Southwestern Public Service Company | Wind | 199 | \$19.18/MWh | NM Public Regulation Commission Case No. 12-00233-UT |
| 11/8/13 | NM | Southwestern Public Service Company | Wind | 249 | \$21.20/MWh | NM Public Regulation Commission Case No. 12-00233-UT |
| 11/8/13 | NM | Southwestern Public Service Company | Wind | 250 | \$20.15/MWh | NM Public Regulation Commission Case No. 12-00233-UT |
| 12/10/13 | CO | Public Service Company of Colorado | Solar | 170 | Bids for PV solar were the least cost resource in the portfolio | CO Public Utilities Commission Decision No. C13-1566 |
| 1/2/14 | MN | Geronimo Energy | Solar | 20 large arrays | Solar won out against natural gas in a head to | http://www.eenews.net/greenwire/stories/1059992330/print |

| | | | | | head price comparison, without state subsidy | |
|---------|----|---------------|-------|--------|--|---|
| 3/10/14 | TX | Austin Energy | Solar | 150 | 5 cents/KWh | https://www.greentechmedia.com/articles/read/Cheapest-Solar-Ever-Austin-Energy-Buys-PV-From-SunEdison-at-5-Cents-Per-Ki |
| 3/20/14 | CA | Palo Alto | Solar | 398 KW | 4 cents/KWh | http://www.greentechmedia.com/articles/read/Anatomy-of-a-PPA-4-Cent-Per-Kilowatt-Hour-Solar-in-Palo-Alto-CA. |

Despite these industry trends, here, Duke has failed to account for the option of adding solar and other renewable resources more rapidly to its network. Duke has no excuse. Sierra Club urged in comments last year that, at a minimum, Duke should test the market and disclose the results by issuing an RFP for renewable power like GPC did. *See* 2012 TYSP Supplemental Comments, Ex. C. Further, distributed generation and self-built utility-scale solar systems are also options that Duke must explore under the FEECA goal-setting and TYSP processes, and should present here—at least as an option to serve load requirements by 2018 given the additional time potentially needed to ramp up these types of renewable resources.

IV. Conclusion

For all the reasons reiterated in this Comment Letter, Earthjustice and Sierra Club respectfully request that the Commission deny Duke’s Petition. Duke’s proposed expenditures to temporarily comply with MATS and keep CR South operating are imprudent. Further, to protect Duke’s customers from any risk associated with retiring these units and the possible over-dependence on natural gas which they may promote, the Commission should emphasize efficiency and renewable energy options as alternatives to coal- and natural gas-burning capacity. We look forward to continuing to working with the Commission to ensure that Florida ratepayers secure healthier air and a more reliable and efficient electricity system. Should Staff or Commissioners have any questions or wish to discuss this matter, please contact one of the undersigned.

Sincerely,

/s/

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Exhibit A

July 2, 2012

Mr. Phillip O. Ellis
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CC: Traci Matthews
tmatthew@psc.state.fl.us

Re: Comments on Progress Energy's Ten-Year Plan Submittal

Dear Mr. Ellis and Ms Matthews:

Thank you for accepting these comments on behalf of the Sierra Club and its more than 27,000 Florida members, and on behalf of Earthjustice. We look forward to participating in the Public Service Commission (PSC)'s Ten-Year Plan review process. We are writing to help inform the Commission of serious regulatory risks which should be addressed in this Ten-Year Plan.

As you know, Ten-Year Plans are designed to provide a broad overview of a utility's "power-generating needs and the general location of its proposed power plant sites;" accordingly, plans must be "suitable" for planning purposes. F.S. § 186.801; *see also* F.A.C. §§ 25-22.070 & 25-22.071. These plans are among the many tools used by the Commission as it fulfills its statutory responsibilities to maintain "sufficient, adequate, and efficient service" and "fair and reasonable rates" for all Floridians. *See, e.g.*, F.S. § 366.03.

To do so, the Commission will have to address the implications of substantial new environmental compliance obligations at several aging coal-fired units. A recent report for state utility commissioners, primarily authored by former Colorado PSC Chair Ron Binz, puts the problem succinctly, reminding regulators that "[t]he U.S. electric utility industry, which has remained largely stable and predictable during its first century of existence now faces tremendous challenges," including the prospect of substantial retirements of coal-fired power plants. *See* Ron Binz & CERES, *Practicing Risk-Aware Electricity Regulation: What Every State Regulator Needs to Know* (2012) at 5.¹ These "retrofit or retire" decisions will lead to significant changes in the Florida coal fleet, and the PSC will be charged with managing these shifts. As Commissioner Binz writes:

The question for regulators is whether to approve coal plant closures in the face of new and future EPA regulations, or to approve utility investments in costly pollution controls to keep the plants running. Regulators should treat this much like an IRP proceeding: utilities

¹ Attached as Ex. 1.

should be required to present multiple scenarios differing in their disposition of the coal plants. The cost and risk of each scenario should be tested using sensitivities for fuel costs, environmental requirements, cost of capital, and so forth. In the end, regulators should enter a decision that addresses all of the relevant risks.

Id. at 9.

These comments highlight some of these important risks. The Commission should use the Ten-Year Plan informational docket to fully investigate them. We have submitted similar comments addressing plans filed by several different utilities; this filing focuses on coal-fired power plants operated by Progress Energy.

I. Progress Energy’s Crystal River Plant Face Substantial Environmental Compliance Costs

Units 1 and 2 at Progress Energy’s Crystal River plant were put into service in the late 1960s, and are operating without major pollution controls, including smokestack scrubbers. See FL DEP Air Operation Permit No. 0170004-025-AV (2011) at 6. These units are an increasingly bad deal for ratepayers: In addition to posing a serious threat to public health, they are not economic to operate. As utilities and PSCs around the country are increasingly recognizing, rising pollution control and fuel costs make coal power an unattractive proposition, especially as energy efficiency, demand-side resources, and renewable power become ever more available and as natural gas prices continue at record lows. Multi-million dollar life-extension projects for aging coal plants are not prudent in these circumstances. Progress has already told FL DEP that it will consider retiring units 1 and 2 within the next decade. See Progress Energy BART Implementation Plan for Crystal River Units 1 and 2 (June 2012) at 3.² Yet, Progress’s Ten-Year Plan does not even mention these units, much less address their retirements.

Because of this striking gap, Progress’s plan is not “suitable” for planning purposes. See F.S. § 186.801. The likely retirement of the Crystal River units has important implications for the “need ... for electrical power” in its service territory, and for how that need is to be met, as well on “fuel diversity within the state,” the “environmental impact” of any proposed replacement power, and the state “comprehensive plan.” See F.S. § 186.801. The Commission should therefore ensure that Progress submits a corrected plan which discloses its intentions as fully as possible. It is particularly important to do so because Progress will face compliance obligations within the next few years that will lead to retirement decisions. The Commission can best protect Floridians by beginning the planning process for these likely retirements now.

Crystal River Units 1 and 2 are likely retirement targets because both units lack “scrubbers,” the flue-gas desulfurization systems required to remove SO₂, which can cause deadly respiratory damage, from their emissions. Scrubber systems for these plants would cost tens of millions of dollars. Such an investment, and corresponding rate increase, would not be prudent

² Attached as Ex. 2.

when much cheaper sources of power are available. Accordingly, the Commission should work with Progress Energy to investigate retirement options for these plants.

In the discussion below, we explain the likely sources of scrubber liability for Crystal River, before briefly highlighting the many other environmental compliance costs which Progress is likely to face.

A. Likely Scrubber Liability for Crystal River Units 1 and 2

Three separate environmental and public health protection programs are likely to drive scrubber installation requirements, and hence “retire or retrofit” decisions, at Crystal River: the SO₂ National Ambient Air Quality Standards (“NAAQS”), 40 C.F.R. § 50.17, the Mercury and Air Toxics Standards (“MATS”), 40 C.F.R. Subpt. UUUU, and the Regional Haze Rule, 40 C.F.R. § 51.308.

i. The SO₂ NAAQS

Just five minutes of exposure to SO₂ can make people sick; in fact, the causal link between this pollution and asthma attacks and other respiratory problems is the “strongest” such link which the EPA’s scientific advisory board can identify. 75 Fed. Reg. 35,520, 35,525 (June 22, 2010). To protect the public from such pollutants, EPA is required to set NAAQS specifying the safe level of public exposure; states then develop state implementation plans (SIPs) to ensure that those standards are attained. See 42 U.S.C. §§ 7409 & 7410. EPA’s decision to protect public health by lowering the NAAQS for SO₂ to a maximum allowable exposure of 75 ppb (a concentration equivalent to 196.2 µg/m³) over an hour, see 75 Fed. Reg. 35,520 (June 22, 2010), thus obliges Florida to update its SIP to ensure that its citizens are protected from this dangerous air pollution.

States are generally required to submit updated SIPs “within 3 years” after EPA updates a NAAQS; because EPA finalized its NAAQS in 2010, Florida’s plan is due in 2013. 42 U.S.C. § 7410(a)(1). The plan must “provide[] for implementation, maintenance, and enforcement of” the standard throughout Florida. *Id.* Although EPA’s approval and review process may delay plan implementation for a year or two after submission, the Commission can reasonably expect Florida’s SIP to be operating by 2015 or before.

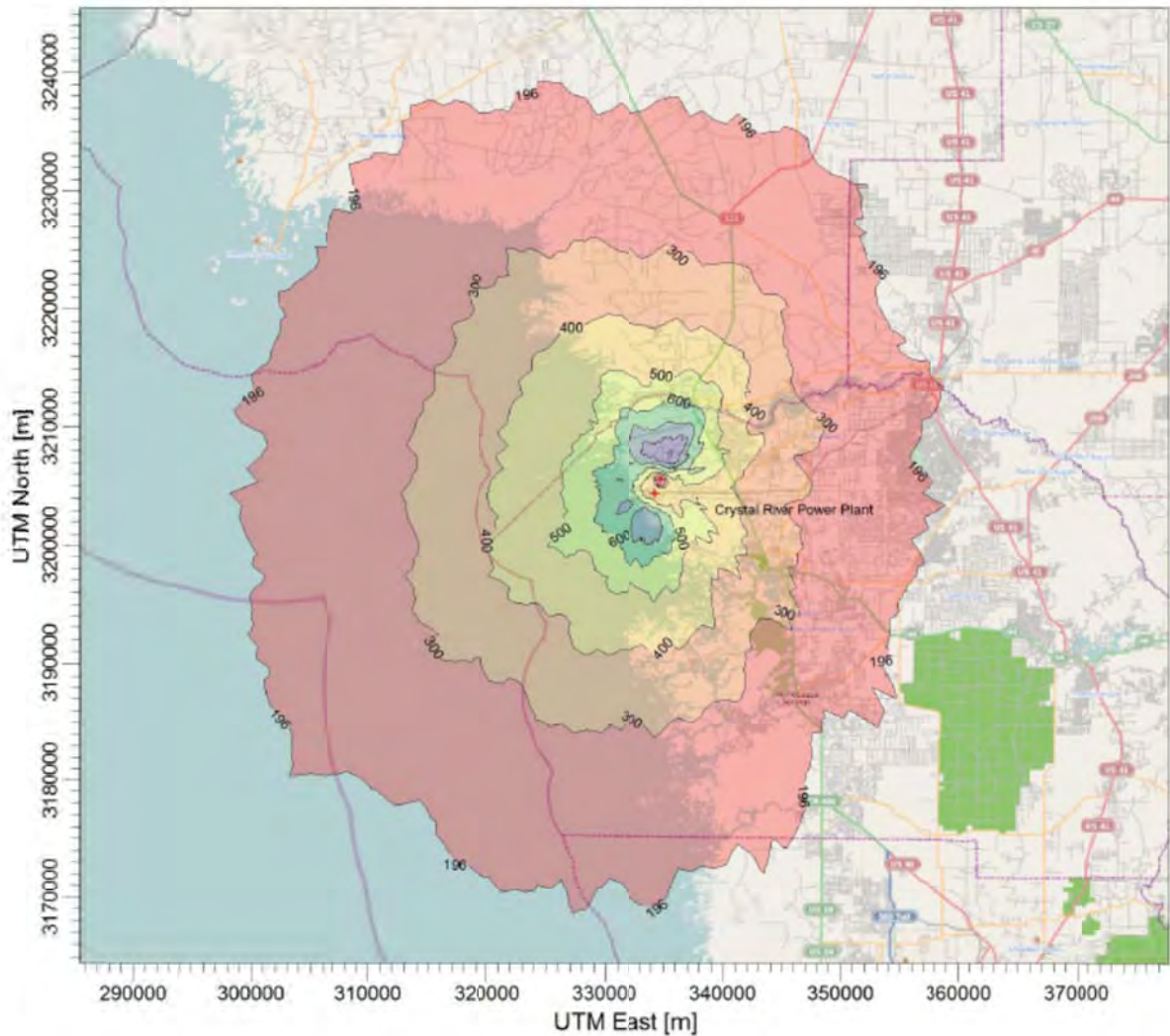
This tight timeline is directly relevant to the Commission’s review of Progress Energy’s plans because the Crystal River plant is causing violations of the NAAQS, and so will have to install controls under any legal SIP. Sierra Club engaged an expert air modeler, Steve Klafka of Wingra Engineering, to evaluate the plant’s compliance with the NAAQS, using EPA’s models and methodology.³ We modeled both the plant’s allowable emissions – those authorized by its Title V Air Operation Permit, No. 017000–025-AV, and its maximum emissions in 2011, the most recent year with complete data in EPA’s Air Pollution Markets Database. Whether measured by

³ The methodology is described in detail in the attached report, Ex. 3.

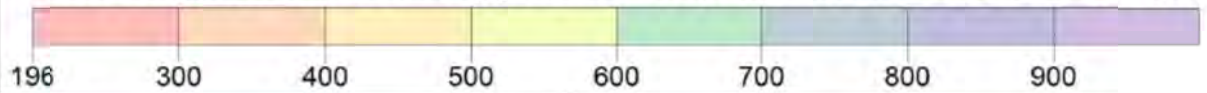
its permit or by its most recent maximum emissions, the plant causes pollutants in the air near Crystal River to reach dangerous levels.


The figure below shows the SO₂ pollution plume the plant would create when operating at its permit limits. All colored areas violate the NAAQS. While the NAAQS is set at 196.2 µg/m³, Crystal River's permit allows pollution levels to soar to a maximum of 921.0 µg/m³, over 460% of the safe value; even a bit further away from the plant, the pollution in the air directly over residential areas and over Crystal Bay is well above safe levels.

Crystal River Power Plant - Crystal River, Florida
Evaluation of Compliance with the 1-hour NAAQS for SO₂



1-hour average SO₂ concentrations (ug per cubic meter) - All colored areas exceed the NAAQS.



| | | | | | |
|---|-----------------|-----------------------------|--|--|------------------|
| All concentrations include a background of 5.2 ug/m ³ . This figure is based on allowable emissions. | Total Sources | 6 | | Conducted on behalf of the Sierra Club | |
| | Total Receptors | 22083 | | by Wingra Engineering, S.C. | |
| | Output Type | Concentration | | SCALE: | 1:580,926 |
| | Maximum | 921.02714 ug/m ³ | | 0  20 km | |
| | | | | DATE: | 6/25/2012 |

Importantly, Crystal River causes NAAQS violations even when operating below its permitted maximums. Last year, the plant's highest operating hour emissions saw SO₂ concentrations reach 534.6 µg/m³, which is nearly three times the safe value. See Ex. 2 at Table 1.

To reduce this illegal pollution, Crystal River would have to cut total facility emissions by 79.1% from its current permit. *Id.* at Table 3. To do so, it is highly likely to have to install a scrubber, thereby confronting hundreds of millions in control costs, which we document more fully below. Importantly, these costs will be far outweighed by public health benefits. EPA determined that the NAAQS will produce on the order of \$36 billion in *net* benefits once safe levels of SO₂ have been attained. 75 Fed. Reg. at 35,588. Crystal River residents will secure a substantial portion of these benefits – in the form of fewer asthma attacks, emergency room visits, and premature deaths – once the plant's pollution has been controlled.

In short, the SO₂ NAAQS, a pollution control requirement which Progress Energy does not even acknowledge in its Ten-Year Plan, is highly likely to require Crystal River Units 1 and 2 to retrofit or retire. It is not the only requirement to do so, as we next discuss.

ii. MATS Requirements

In the Clean Air Act of 1990, Congress ordered EPA to investigate hazardous air pollutants emitted by power plants, and to promulgate emissions standards for these pollutants if they threatened public health. 42 U.S.C. § 7412(n)(1). Because coal power plants are dominant sources of mercury, acid gases, and other highly toxic pollutants, EPA was obligated to issue such standards, and finally did so in 2012, 22 years later. See 77 Fed. Reg. 9,304 (Feb. 16, 2012).

The final MATS rule issued in response to this Congressional mandate requires operators to control mercury and acid gases. A smoke stack scrubber can be required to comply with EPA's control requirements. In EPA's analysis of compliance options, it presumed that coal plants emitting more than 2 lbs/MMBtu of SO₂ would have to install scrubbers to comply with the standard. 77 Fed. Reg. at 9,412. Crystal River's air operation permit allows it to emit 2.1 lbs/MMBtu of SO₂, meaning that the MATS rule will likely drive scrubbers installation at the facility. See FL DEP Air Operation Permit 0170003-025-AV at 7. Notably, Crystal River is also the single largest source of mercury in Florida, dumping more than 300 kg of mercury a year into the air around the plant.⁴ On both counts, MATS compliance will, accordingly, be a major focus for the facility.

⁴ See Laura S. Sherman *et al.*, *Investigation of Local Mercury Deposition from a Coal-Fired Power Plant Using Mercury Isotopes*, Environment Science & Technology (2012), attached as Ex. 4.

The Clean Air Act requires that existing sources comply with MATS “as expeditiously as practicable, but in no event later than 3 years after the effective date” of the standard. 42 U.S.C. § 7412(i)(3). Because MATS was promulgated and effective on February 16, 2012, plants must comply by that date in 2015. Although limited compliance extension of up to 1-2 additional years may be available in some limited circumstances, *see id.*, these extensions are disfavored. Accordingly, Progress Energy will have to scrub Crystal River by 2015, or shortly thereafter, or retire the facility, yet it entirely fails to acknowledge this major shift in its operations in its Ten-Year Plan.

iii. Regional Haze Requirements

Since 1977, the Clean Air Act has required EPA and the states to make “reasonable progress” towards restoring natural visibility in Class I areas – which are, essentially, national parks and wildernesses. *See* 42 U.S.C. § 7491. EPA has been very slow to implement this mandatory duty, but its rule to address regional haze, promulgated in 1999, are now being implemented, and Florida is the process of a SIP revision intended to protect Class I areas affected by sources in the state. *See* FL DEP, *Regional Haze Plan for Florida Class I Areas* (Draft as amended May 2012).⁵

The regional haze rule requires that Florida impose controls at all sources of visibility-impairing pollutants to the extent such controls will be needed to make reasonable progress towards restoring natural visibility by 2064. *See* 40 C.F.R. § 51.308(d)(3). The Act and the Rule also require sources which were in existence by August 7, 1977, but which had not been in operation before August 7, 1962, to install “the best available retrofit technology” (BART) to control visibility-impairing pollutants. 42 U.S.C. § 7491(b)(2)(A) & 40 C.F.R. § 51.308(e). FL DEP has determined that the Crist facility is subject to BART. *See* FL Draft Regional Haze Plan at 102.

FL DEP had planned to rely upon a separate EPA SO₂ trading program, the Clean Air Interstate Rule (“CAIR”) to address these requirements, but CAIR has been replaced with a new program which does not control SO₂ in Florida. *See* 77 Fed. Reg. 31,240, 31,248 (May 25, 2012). As such, FL DEP is reanalyzing control options and will have to propose source-specific control requirements for Crystal River Units 1 and 2.

These controls are likely to drive scrubber requirements because, according to FL DEP, SO₂ is the dominant source of visibility-impairing pollution in Florida. *See, e.g.*, FL Draft Regional Haze Plan at 91-92. Progress Energy has indicated as much to FL DEP. In a 2009 BART permit, Progress Energy agreed to retire the Crystal River units by December 31, 2020, as long as the second unit of its proposed Levy County nuclear facility was operating by that time.⁶ Just a few weeks ago, Progress submitted an updated BART implementation plan to FL DEP indicating that, whether or not the Levy County facility comes online, it would either install a

⁵ Available at http://www.dep.state.fl.us/air/rules/regulatory/regional_haze_imp.htm.

⁶ *See* Air Permit No. 0170004-017-AC (Feb. 26, 2009) at 6, attached as Ex. 5.

scrubber (by 2018 or 5 years after Florida's haze SIP is approved), retire the units by December 31, 2020, or limit operations to keep the plant's operations below BART limits.⁷ Because BART determinations will be approved within the next year, it is not at all clear how Progress expects to run its plants until 2020. Retirement within the next few years is the more likely option.

iv. Scrubber Costs

We have calculated the approximate cost of installing and running scrubbers (at 90% efficiency, a level which would likely be required, at a minimum, to meet the requirements of all three relevant rules) at Crystal River Units 1 and 2, based upon the EPA's Integrated Planning Model and a scrubber-focused appendix developed by Sargent & Lundy.⁸ This model predicts that the capital costs for fitting these units with scrubbers as \$486 million. The result (including operational costs) would be a \$36.6/MWh spike in incremental costs. Progress Energy would no doubt seek to pass these costs on to rate-payers if it opted to continue to run the plant, rather than to retire it. These expenditures are extraordinarily high simply in order to extend the lives of these decades-old, expensive, coal-fired power plants.

B. Other Environmental Liabilities

Scrubber costs are not the only liabilities Crystal River faces. There are also pending rules requiring upgrades to coal plant cooling water systems, *see* 76 Fed. Reg. 22,174 (Apr. 20, 2011), better handling and disposal practices for coal combustion waste, *see* 75 Fed. Reg. 35,128 (June 21, 2010), and new treatment systems for liquid effluent discharges,⁹ all of which are likely to be finalized in the next two years. EPA is also updating the NAAQS for particulate matter and for ozone. Moreover, EPA has recently proposed carbon controls for new electricity generating units. *See* 77 Fed. Reg. 22,39 (Apr. 13, 2012). Once finalized, these rules will obligate EPA to extend carbon controls to existing facilities, including Crystal River. *See* 42 U.S.C. § 7411(d). The cumulative impact of these liabilities on Progress Energy will be large and are likely to lend further weight to retirement decisions.

C. Likely Retirements

The cumulative compliance costs from all the rules which apply to Progress Energy's Crystal River units are substantial. Upon reviewing them, and considering the wide availability of more inexpensive power sources, Progress is highly likely to follow industry trends towards coal retirement.

Coal use is falling quickly, in response both to the cost of pollution controls and to national economic trends, including the growth of inexpensive wind power and the boom in shale gas production. As EPA has recently documented, "all indications suggest that very few new coal-

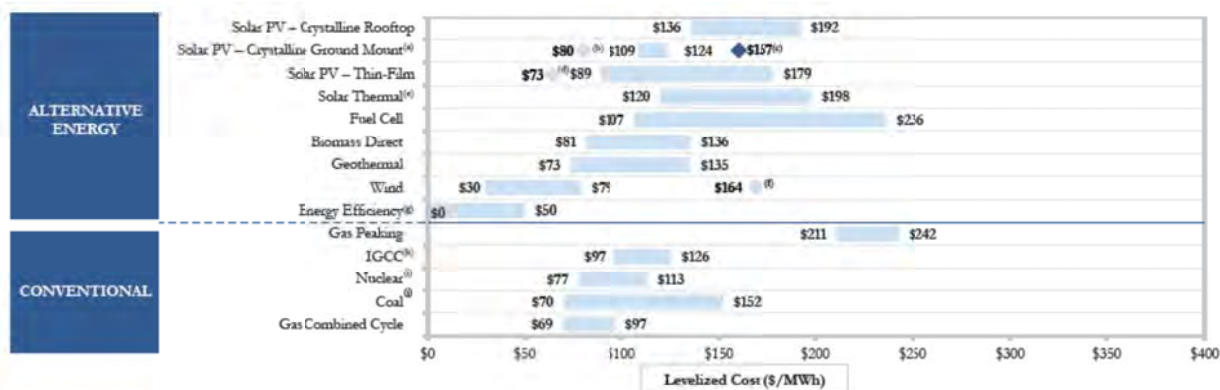
⁷ *See* Ex. 2, *supra*.

⁸ All modeling parameters can be found at <http://www.epa.gov/airmarkt/progsregs/epa-ipm/BaseCasev410.html>.

⁹ *See* EPA's plans for this rule at http://water.epa.gov/scitech/wastetech/guide/steam_index.cfm

fired power plants will be constructed in the foreseeable future.” 77 Fed. Reg. at 22,413, and the Energy Information Administration (EIA) is documenting increasing retirements of existing plants. In particular, the EIA’s Annual Energy Outlook for 2012 forecasts no new unplanned coal capacity through 2020. RIA at 5-5. EIA’s most recent Electric Power Monthly report confirms that this trend continues. Thus far this year, *none* of the 5,627 MW of new units to come online are coal-fired; instead, new capacity additions are largely in renewable power or natural gas. EIA, *Electric Power Monthly June 2012* at Table ES3.¹⁰ Conversely, retirements to date have been predominantly coal-fired units. *See id.* at Table ES4. Utilities across the country have announced thousands of megawatts worth of coal retirements over the last few years.¹¹

Industry-wide levelized cost figures compiled by independent analysts demonstrate why these retirements are occurring. The most recent (2011) edition of Lazard’s Levelized Cost of Energy Analysis,¹² a widely-used reference, shows that energy efficiency, wind, and natural gas combined cycle levelized costs are already below those of coal, as the figure below demonstrates.



Under these circumstances, prudent operators are increasingly deciding not to impose additional costs on their ratepayers by running coal-fired units with costly new pollution technology. Instead, they are opting to retire older units and pursue cleaner, cheaper, energy options. Progress Energy could, and should, decide to follow the same course.

D. Recommended Commission Action

¹⁰ Available at: <http://205.254.135.7/electricity/monthly/pdf/epm.pdf>.

¹¹ *See, e.g.*, Progress Energy Press Release, “Progress Energy Carolinas to retire coal power plant ahead of schedule” (Apr. 1, 2011) (recording the retirement of four North Carolina coal plants), available at <https://www.progress-energy.com/company/media-room/news-archive/press-release.page?title=Progress+Energy+Carolinas+to+retire+coal+power+plant+ahead+of+schedule&pubdate=04-01-2011>; FirstEnergy Press Release, “FirstEnergy, Citing Impact of Environmental Regulations, Will Retire Six Coal-Fired Power Plants” (Jan. 29, 2012) (announcing the retirement of six coal plants in Ohio), available at https://www.firstenergycorp.com/content/fecorp/newsroom/news_releases/firstenergy_citingimpactofenvironmentalregulationswillretiresixc.html; Environment News Service, “Dominion Virginia to Replace Coal Plants with Gas, Nuclear” (Sept. 7, 2011) (documenting retirement of two Virginia coal plants), available at <http://www.ens-newswire.com/ens/sep2011/2011-09-07-091.html>.

¹² Attached as Ex. 6.

Progress Energy has entirely failed to address these environmental compliance issues, and the impacts of retirements at Crystal River upon its system and upon ratepayers. The failure renders the draft plan “unsuitable” as a planning document. See F.S. §186.801. The Commission, “may suggest alternatives to the plan,” *id.*, however, and may classify a plan as suitable upon the submission of “additional data,” see F.A.C. § 25-22.071(5). We respectfully request that the PSC exercise its authority to ensure that Progress’s plan provides adequate data to allow the PSC and the public to address these plant retirements.

Specifically, we submit that the Commission should seek the following information from Progress and require resubmission of a complete plan addressing these submissions:

1. The utility should provide an analysis of all environmental compliance obligations which it will experience at the Crystal River plant. For each requirement, the utility should cite the relevant rule, explain how it is likely to apply to the plant, the likely costs of compliance to the utility and to ratepayers, and the timeline on which compliance will be required. The utility should also document any steps it has taken to address these compliance obligations, and alternative steps it might take. For instance, if the utility anticipates that it will have to install a scrubber to comply with MATS, it should report to the Commission on scrubber installation and operation costs, whether it has contracted to purchase a scrubber and on what timeline, and what other options it has considered. See F.S. § 186.801 (requiring utilities to document “[p]ossible alternatives to the proposed plan”).
2. The utility should provide a comparative analysis of compliance costs and the cost costs of replacing the plant’s power through energy efficiency, demand response, power purchase agreements, new generation facilities, or other means. See F.S. §186.801 (requiring utilities to explain the impact of their plans on fuel diversity and on the need for electric power in their regions). In light of this analysis, the utility should indicate whether it intends to retire any facility, and on what timeline, and the relative costs of retirement versus those of other options. If retirement has not been selected but is being considered, the utility should indicate when the decision will be made.
3. For any facility where retirement is possible, the utility should discuss how it intends to address any reliability issues which may be caused by the retirement. The Commission should play an active role in this regard, as it must maintain reliability of the electric grid. See F.S. § 366.05(7)-(8) (authorizing the Commission to “require reports from all electric utilities to assure the development of adequate and reliable energy grids” and to order “installation and repair of necessary facilities” to address reliability issues”). The Commission has determined that “[r]eserve margins in Florida typically remain well above” relevant minimums through 2020, so system-wide resource adequacy problems are unlikely, but the Commission may still need to address localized reliability issues. If such problems appear to be present, the

Commission should work proactively and transparently with the Florida Reliability Coordinating Council to address them well in advance of any planned retirement.

We appreciate this careful consideration of Progress Energy's environmental compliance options, and any resulting plant retirements, and remind the Commission that such thorough analysis is required to ensure that the Ten-Year Plan complies with legal requirements. We request that the Commission share the results of its inquiry with us and with the public, and request formal notice of the Commission's next steps.

Please contact the undersigned with any concerns or questions.

Sincerely,
s/ Craig Holt Segall
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Exhibit B

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Re: Comments on 2013 Ten-Year Plan Submittals

Dear Mr. Ellis and Ms Matthews:

Thank you for accepting these comments on behalf of the Sierra Club and its nearly 27,000 Florida members and on behalf of Earthjustice. We appreciated the opportunity to participate in the Public Service Commission (PSC)'s Ten-Year Plan review process in 2012, and are happy to continue our participation this year.

In last year's comments,¹ we asked that the PSC consider the implications of the retirement of Duke (then Progress) Energy's Crystal River Units 1 & 2, and of Gulf Power's Lansing Smith Units 1 & 2. We advised the PSC that the units had significant environmental compliance obligations which rendered them noneconomic to run in the near-term, but that neither company had included full analysis of that possibility in its submittal.

We appreciate that the PSC addressed these retirement issues in its review of the 2012 plans. *See, e.g., PSC, Review of the 2012 Ten-Year Site Plans ("2012 Review")* at 3. We respectfully submit that that analysis should continue in further depth this year because both utilities have now confirmed our retirement predictions from last year. Duke has committed to retiring Crystal River 1 & 2 for economic reasons and Gulf, though it has not made a final decision, has deferred further environmental compliance work on Lansing Smith and has requested PSC approval for transmission upgrades which would allow for Lansing Smith 1 & 2 to shut down.

In its review, the PSC assumed that the capacity of these retiring units would be replaced by natural gas, which would increase natural gas's share in Florida's electric generation to 62.9% by 2022 (up from 56.7% without the retirements, and from 57.7% in 2011). *Id.* The PSC states that it views "the growing lack of fuel diversity" within Florida as a "major strategic concern." *Id.* at 39. Although we certainly welcome the retirements of these dangerous coal plants, we share this fuel diversity concern: Undue dependence on natural gas leaves the state overly vulnerable to fuel price volatility, even as potential LNG exports and other shifts in the gas market seem likely to increase gas prices in the medium term. For this reason, we strongly suggest that the PSC consider planning scenarios which employ other, less risky, resources to make up some or all of the share of generation now served by the retiring plants.

¹ Attached as Exhibits 1 & 2, for your reference.

In particular, we believe that demand-side management measures, including energy efficiency, other demand response programs, and demand-side renewable energy, can make up a significant portion of any resource gap left by the likely retirements. Increased supply side renewable energy can also increase the diversity of the state's resource mix. Because the PSC will be considering new goals for both Duke and Gulf under the Florida Energy Efficiency and Conservation Act (FEECA) this year, this is a particularly good time to develop the data needed for sensible planning.

I. Coal Retirements

Both Duke and Gulf have confirmed that retirement is likely in the cards for their economically vulnerable plants, though Duke has gone further and confirmed that Crystal River 1 & 2 will certainly retire. Duke appears to be planning to address these retirements largely through adding new generating capacity. Gulf intends to rely on power imports in the near term.

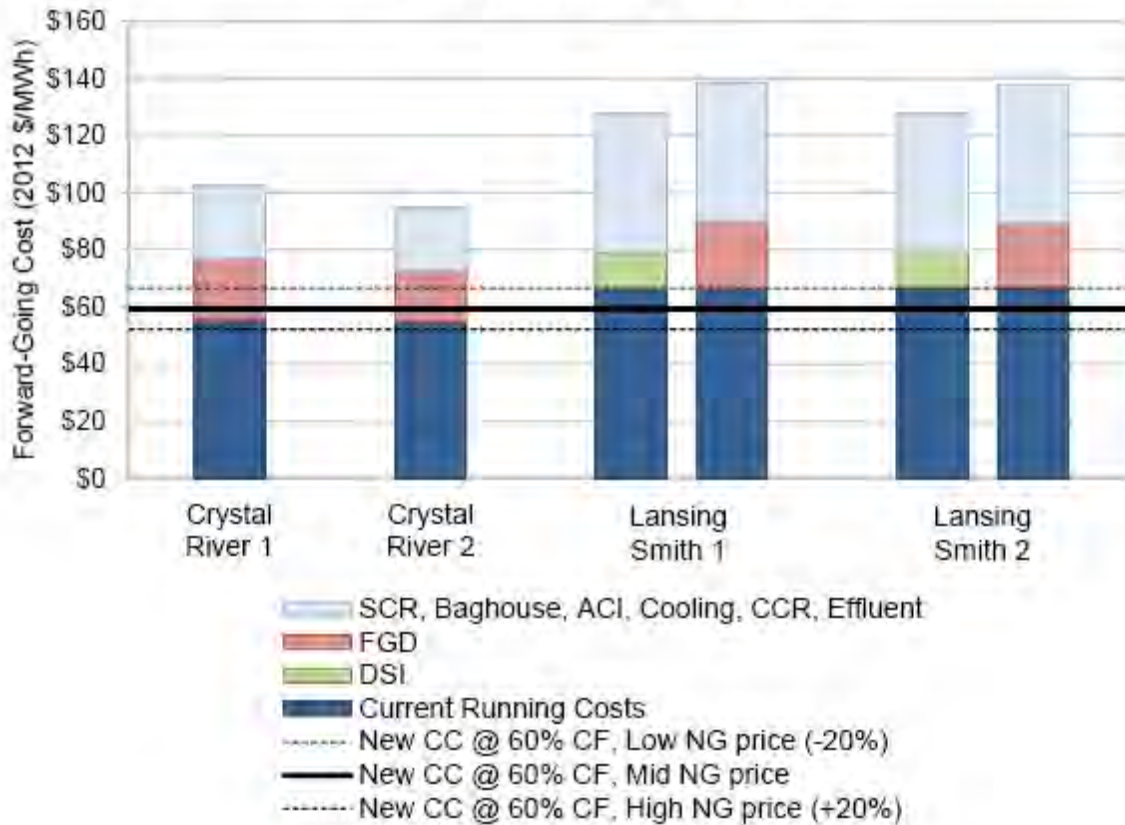
Duke/Progress

Duke has confirmed “expected retirement of Crystal River 1 & 2 in 2016.” Duke TYSP at 3-2. As Duke explains in testimony filed in the Environmental Cost Recovery Docket, the lifecycle projected system cost for retiring units 1 & 2 is far lower than the cost of retrofitting the units to comply with environmental compliance obligations: The difference between the retirement and retrofit scenarios is \$ 1.32 billion in Duke's base case analysis; retrofit is unfavorable only in the extremely unlikely case of very high gas prices and no CO₂ regulation. Direct Testimony of Benjamin M. H. Borsch on Behalf of Progress Energy Florida (Apr. 1, 2013) at 4, Docket No. 130007-EI; *see also* Progress Energy Florida, *Review of Integrated Clean Air Compliance Plan* (Apr. 1, 2013) (“*Duke Compliance Plan*”) at 25-26.

To be sure, Duke has held out the option of making short-term fuel mix adjustments which might allow the units to continue operating, perhaps as long as 2020. *Duke Compliance Plan* at 21. Continued operation would plainly be economically imprudent. As we demonstrated in our comments and workshop presentation on last year's plan, and as the figure below shows, the Crystal River units already verge on noneconomic when compared even against the substantial expense of constructing a new combined cycle natural gas plant to replace their capacity, much less against more sensible options, including demand side programs.²

² This figure is drawn from our 2012 workshop presentation and is based on work by Synapse Energy Economics, using public cost estimates from the Energy Information Administration's cost reporting forms and the EPA's Integrated Planning Model, developed by Sargent & Lundy.

Forward Going Costs of Existing Coal Units and Probable Environmental Controls



Because Crystal River 1 & 2 are uneconomic by almost any measure (as Duke acknowledges), the pertinent question is how best to replace any portion of their 965 MW in nameplate capacity which will be required going forward. (In practice, this lost capacity is smaller: both units have been relatively little used in recent years.) Lost capacity from the 860 MW Crystal River 3, the retired nuclear unit at the site, will also play a substantial role in system planning, of course.

Over the period from 2013 to 2022, Duke expects its firm summer peak demand to grow by 1287 MW, TYSP at 3-7, and increase of just shy of 15% over the next decade, or about 1.5% per year. At present, Duke reports that it intends to make up necessary capacity to match this growth through “planned power purchases from 2016 through 2020 and planned installation of combined cycle facilities in 2018 and 2020 at undesignated sites.” *Id.* at 3-2. According to Duke, these energy imports are likely to grow an additional 1470 MW above its current ~ 1900 MW of imported capacity, *id.* at Schedule 7.1. The addition of a 1307 MW (winter capacity) combined cycle facility in 2018, and a second 1307 MW facility in 2020 then replaces these imports. *See id.* at 3-7, 3-10 – 3-11. This additional capacity is 764 MW greater than the capacity which Duke is losing, leading to a 21% reserve margin by 2022.

As we discuss below, Duke’s strategy of increasing its built generating capacity substantially in response to projected growth, and relying on natural gas generation to do so, is not the prudent one for either the company or for Florida.

Gulf Power

As the figure above indicates, Lansing Smith 1 & 2 are even less economically attractive to operate than the uncontrolled Crystal River coal units. Gulf has not yet committed to retirement publicly, but its filings in this docket and in the Environmental Cost Recovery docket make clear that it is preserving that option.

Specifically, Gulf has requested the PSC approve a \$77 million transmission upgrade project, which it explains is necessary to ensure that Lansing Smith is not a must run unit. Gulf Power, *Third Supplemental Petition of Gulf Power Company Regarding its Environmental Compliance Program*, Docket No. 13007-EI (Mar. 29, 2013) at 8. According to Gulf, these upgrades will allow Plant Smith to run at lower levels or to close, and would be “required if these units retire or are controlled as a result of [the mercury and air toxics rule.]” *Id.* at 8. Gulf, thus, maintains that it intends to “reserve the decision to install ... controls or to retire the two units for a future time when more is known with regard to costs of compliance requirements associated with additional environmental regulations.” *Id.*

Because Gulf Power – unlike Duke – has not shared cost information with the public comparing the cost of controlling versus retiring the plant, *see* Gulf Power, *Environmental Compliance Program Update*, Docket No. 13007-EI (Mar, 29, 2013) at 22-27, it is clear that it anticipates considerable additional compliance obligations at Plant Smith, including additional air, water, and waste rules. *Id.* at 22. Although Gulf has not provided economic analysis of a retirement option, it is clear that operating costs from the mercury rule alone would “greatly increase the variable operating cost of Smith Units 1 and 2,” *id.* at 23, enough so that spending \$77 million on transmission to reduce the operating need for the plant is more economic than continuing to run it, *id.* at 26.

We certainly agree that it is better to run Plant Smith less. The truth, however, is that Plant Smith is not economic to run *at all* under current conditions. It is certainly not economic to run going forward as environmental compliance costs increase. The appropriate course for Gulf Power is to retire the facility, rather than simply building transmission which will allow it to operate the costly plant somewhat less. Its transmission project, apparently, will enable that retirement, which remains an option. We urge the PSC to continue to analyze retirement possibilities.

In this regard, Gulf’s Ten Year Site Plan submission does not clearly discuss all the implications of Plant Smith. It acknowledges, again, that “potential incremental capital expenditures for compliance may be substantial,” Gulf TYSP at 3, but does not yet appear to provide a straightforward retirement analysis. Gulf anticipates 575 MW in summer peak demand growth by 2022 (about 20% growth over that period, or, according to Gulf, a 1.9% annual increase over the next decade). *See* Gulf TYSP at Schedule 3.1.

Gulf’s plan indicates that capacity additions are not necessary to manage this projected growth. Gulf reports that a power purchase agreement (PPA) which it has signed with Shell Energy for use of 885 MW of capacity from an existing gas combined cycle plant will meet its needs through 2023, after which it will construct additional in-system capacity. *Id.* at 2-3. For this reason, the PSC’s projection last year that Lansing Smith’s retirement will lead to gas generation increases in Florida appears to be incorrect in the near term. As with Crystal River’s retirement, however, we believe that demand-side

options and other non-gas resources should be emphasized to meet any capacity needs that eventually arise.

II. Implications for the Ten-Year Plan and FEECA Goal-Setting Processes

Because the PSC will shortly move fully into the FEECA goal-setting process for the next five years, this is a particularly appropriate time to consider alternate futures for the Duke and Gulf power networks, with an emphasis on resources which the Legislature designed FEECA to encourage. The cost of adding new fossil capacity will almost always be higher than the cost of demand-side measures. The savings possible through an efficiency-focused strategy, coupled with efficiency's potential to help Florida avoid the undue dependence on natural gas which the PSC is seeking to avoid, argue strongly for a careful analysis of these questions in this year's Ten-Year Site Plan Review.

The Legislature has determined that it is "critical to utilize the most efficient and cost-effective demand-side renewable energy systems and conservation systems in order to protect the health, prosperity, and general welfare of the state and its citizens." Section 366.81, F.S. A study commissioned by the Legislature this past year confirmed these findings, concluding that "FEECA appears to provide a positive net benefit to ratepayers." Galligan *et al.*, *Evaluation of Florida's Energy Efficiency and Conservation Act* (Dec. 7, 2012) ("FEECA Study") at 9.

Despite these benefits, the PSC has, in the past, opted to suspend further program expansion for Duke and FPL, on cost grounds. *See, e.g., Re: Progress Energy Florida, Inc.*, Docket No. 1000160-EG, 2001 WL 3659327 (Aug. 6, 2011). The PSC should revisit this position during this year's goal-setting process in view of the positive findings of the legislative study, and the pressing need to address the retirements of vulnerable coal units in ways that best protect the ratepayers from further risk from fossil fuel price shifts and regulatory uncertainty. Ratepayers will face costs associated with new capacity and loss of fuel supply diversity which are far greater than those imposed by demand-side programs --- programs which the legislative study have determined have net *benefits*.

In particular, the PSC should view with skepticism Duke's proposal to construct 2614 MW of natural gas generation in just the next few years in order to cope with a 1.5% annual average growth rate in its predicted demand. Initially, Duke has a history of significant positive errors in its forecasts. As the PSC explained in its 2012 Ten Year Site Plan Review, Duke overestimated net energy for load forecasts by 11.36% on average between 2007 and 2011, and by 6.17% between 2006 and 2010. *2012 Review at 19*. Certainly the recession contributed to some of this overage, but the size of the error should give the PSC pause.

More importantly, however, the 1.6% demand growth rate which Duke forecasts, even if accurate, is within the range of load growth rates which demand-side management can address. According to the legislative FEECA study, many states require annual reductions far greater. *See FEECA Study at 177-180*. States requiring savings of at least 1% a year, according to that study, include Arizona, Indiana, Maine, Maryland, Michigan, Minnesota, New York, Ohio, and Texas, with many other states not far behind (still other states, including California, are listed as having very large reduction goals, but a percentage reduction is not specified). *See id.* Such reduction rates would entirely offset Duke's projected load growth, obviating the need for much, if not all, of its projected capacity needs in light of the Crystal River retirements.

Duke plainly has the potential to greatly expand its programs. It reports that only 25% (405,000 customers out of 1.6 million) take part in its demand response program, for instance. Duke TYSP at 1-1. This low participation is likely one reason that Duke is well below its FEECA goals for summer MW and annual GWh reductions – missing the annual target by more than 60%. *See* PSC, *Annual Report on Activities Pursuant to [FEECA]* (Feb. 2013) at 19. Duke has told the PSC that it was unable to reach its performance levels because “of the Commission decision to not approve a new DSM plan” for the company. *Id.* at 20. Thus, if the PSC engages with Duke to approve an improved plan, Duke may well be able to increase efficiency programs sufficiently to greatly decrease its capacity needs.

This analysis also applies to Gulf. Although Gulf does not plan new capacity for the next decade, it, too, has potential for further improvements, failing to meet even its modest existing FEECA goal by 12%. *Id.* at 19. If Gulf were performing at the level of nationally leading utilities – saving more than 1.5% of its demand per year – it could likely avoid those projected capacity additions.

Such enhanced performance could help Florida, as a whole, to meet the Legislature’s directive in FEECA. At present, Florida ranks in the bottom half of the states with regard to energy efficiency. *See* American Council for an Energy-Efficient Economy, *State Scorecard 2012* (ranking Florida #29).³ The coal retirements before the PSC provide a strong incentive to do better.

We understand that the PSC will be conducting substantial analysis on this front during its FEECA goal-setting process, *see* Section 366.82, F.S., which requires careful consideration of the “full technical potential” of demand-side programs. We suggest that the PSC conduct that analysis in tandem with its Ten-Year Site Plan review, valuing demand-side programs as a resource which can be used to address capacity and energy issues arising from the coal retirements announced or likely in the site plan docket. Thus, in its 2013 Ten-Year Site Plan Review, the PSC could profitably evaluate the several different scenarios post-retirement, including scenarios in which capacity is replaced with more aggressive demand side measures. Other scenarios should also, of course, explore the potential of other energy sources, including enhanced in-state renewables, including solar, and out-of-state PPAs for renewable (and hence zero fuel cost) energy. In the FEECA process, meanwhile, the PSC can consider the costs and benefits of such measures, especially as compared with costly and risky new gas capacity. The two processes can and should reinforce each other as the PSC works to find ways to minimize risks and costs to ratepayers.

III. Conclusion

Last year, we cautioned that a significant amount of coal-fired capacity in Florida was set for retirement. That process has continued. To manage any ratepayer risk from these retirements and the possible over-dependence on natural gas which they may promote, the PSC should emphasize demand-side management options as alternatives to gas-fired capacity. We look forward to working with the Commission to ensure that Florida ratepayers secure healthier air and a more reliable and efficient electricity system.

Sincerely,

³ Available at: <http://aceee.org/energy-efficiency-sector/state-policy/aceee-state-scorecard-ranking>.

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Exhibit C

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Cc: Traci Matthews, tmatthews@psc.state.fl.us

Re: Supplemental Information Following 2013 Ten-Year Site Plan Workshop

Dear Mr. Ellis and Ms. Matthews:

Thank you for the opportunity to present to the Commission at the September 25, 2013, Ten-Year Site Plan Workshop. At the Workshop the Commissioners raised a number of questions in response to our presentation and we agreed to provide supplemental information to more fully address those questions. This letter transmits and explains that supplemental information.

As discussed at the Workshop, the information supports deferring plan approval until the utilities provide a comparative analysis of the costs and quantified risks of all relevant energy resources, including supply side and demand side. Substantiating the cost-effectiveness of planned investments in this way is squarely within the utilities' ten-year site plan data requirements. See F.A.C. § 25-22.072 (incorporating by reference Form PSC/RAD 43-E (11/97), requiring evidence of "lowest cost possible" planned energy). Yet the utilities' plans lack the requisite comparative analysis of the costs and risks of the various energy resources available to Florida. Without this analysis by the utilities, the Commission cannot meaningfully review the plans for enumerated statutory criteria, such as "possible alternatives to the proposed plan," nor can the Commission evaluate and plan for risks like "disrupted energy supplies or unexpected prices surges." F.S. § 186.801 (citing State Comprehensive Plan, F. S. § 187.201). For these reasons, the information herein supports the Commission deferring plan approval, including approval of planned new gas-burning capacity, until the utilities provide the missing comparative cost-risk analysis to substantiate the cost-effectiveness of their proposed investments.

Moreover, the Sierra Club urges the Commission to follow the regulatory best practice of making the comparative cost-risk analysis available for public comment. Doing so would provide the Commission with a fuller critique of the options for addressing pressing issues, including the need to: (1) plan for significant coal and nuclear retirements; (2) appropriately minimize Florida's exposure to natural gas price shocks and supply disruptions; (3) evaluate and seize opportunities to pursue cost competitive energy resources; and 4) hedge against the costs and risks of fossil fuel-burning generation capacity.

I. A Comparative Analysis of Costs and Quantified Risks of All Relevant Resources (Supply Side and Demand Side) Is Critical for Prudent Resource Planning.

Prudent resource planning minimizes costs and risks. To minimize not just the present value of revenue requirements—alone, a limited focus of resource planning—but also risk, planners generally evaluate a wide range of scenarios (not just the scenario deemed most likely, the "reference

case”). Planners do this through a number of different methods. Many planners use probabilistic modeling and sensitivity analyses for inputs including but not limited to: load growth, fuel prices, electricity spot prices, market structure, environmental regulations, and other risk factors. In addition, some planners also rely on other analytic aids, including market reports, requests for proposals, and stakeholder feedback. This section addresses the Commissioners’ questions about planning for cost and risk with examples and explanations of emerging best practices.

a. CERES Report—Guidance Primarily for Commissions

Practicing Risk-Aware Electricity Regulation: What Every State Regulator Needs to Know offers guidance that is especially relevant to states like Florida that are “facing substantial coal generation retirements and evaluating a spectrum of resource investment options.” Ron Binz & CERES, *Practicing Risk-Aware Electricity Regulation: What Every State Regulator Needs to Know* (2012) (“*Risk-Aware*”) at iii, Ex. 1. Like other reports discussed below, this report reviews existing practices and makes recommendations for valuing and selecting plans to minimize risk. What sets this report apart, and why the Sierra Club has highlighted it, is its focus on the role of state regulatory utility commissions in the planning process.

Risk-Aware urges commissions to proactively identify and address risks. *See, e.g., id.* at 14. This includes gathering information on all relevant future conditions and investment alternatives, not only the conditions and investments identified by the utilities. *Id.* at 46. Further, by fostering transparency and stakeholder engagement throughout the planning processes, commissions are able to build trust and enhance understanding of energy options among all interested parties. *Id.* at 11.

During the Workshop, Commissioner Graham expressed interest in risk assessment methodology. *Risk-Aware* shows one way that planners can systematically assess risk. The report draws on decades of relevant energy regulation and finance experience to develop a composite cost-risk analysis showing the relative cost and relative risk among a wide range of investment alternatives (e.g., nuclear, natural gas combined cycle, solar, efficiency programs). *See id.* at iii, Figures 14 and 15. Spurring commissions to develop tailored assessments like this for their respective jurisdictions, *see id.* at 34, *Risk-Aware* describes its risk assessment methodology in a step-by-step fashion. First, *Risk-Aware* examines twenty-two resources across seven risk categories, wherein the report describes and then quantifies the risks associated with each resource. *See id.* at 30 – 34; *see also id.* at Figures 13, 16. Next, *Risk-Aware* establishes composite risk indices for each resource. *Id.* at 34 – 36. Finally, *Risk-Aware* compares relative risk and relative cost. *Id.* at Figure 17.

b. Nicholas Institute Report—Risk Assessment Made Easier

Least-Risk Planning for Electric Utilities, recently published by the Nicholas Institute for Environmental Policy Solutions at Duke University, presents another relatively easy way to address risks in resource plans. *See* David Hoppock & Patrick Bean, *Least-Risk Planning for Electric Utilities* (2013) (“*Least-Risk Planning*”), Ex. 2. *Least-Risk Planning* emphasizes that “**evaluating a wide range of potential scenarios [such as 10 to 15] that fully capture the realistic range of all relevant sources of uncertainty is critical.**” *Id.* at 11 (emphasis added). Picking up where traditional scenario analysis leaves off, *Least-Risk Planning* suggests that modeling outputs like production costs and fixed costs can be used to compare the costs and quantified risks of investment alternatives. *Id.* at 14. *Least-Risk Planning* illustrates how, with three, then four investment alternatives (deliberately simplified examples), it reviews the steps by which a utility would identify trends, risks, and the hedge value of

energy efficiency programs and renewable resources like wind and solar. *Id.* at 8, 14. *Least-Risk Planning* maintains that utility planners and state regulators would find this method “attractive” (no new tools or modeling required), “sensible” (not too pessimistic or too optimistic about risks), and complementary to traditional scenario analysis. *Id.* at 5, 6. Indeed, some utilities like the Tennessee Valley Authority have adopted a similar risk assessment method already. *Id.* at 6 (citing 2011 TVA Integrated Resource Plan).

c. Regulatory Assistance Project & Synapse Report—A Survey of Several States

Best Practices in Electric Utility Integrate Resource Planning, recently commissioned by the Regulatory Assistance Project and prepared by Synapse Energy Economics, reviews emerging best practices in several states’ resource planning processes. See Bruce Biewald & Rachel Wilson, *Best Practices in Electric Utility Integrate Resource Planning* (2013) (“*Best Practices*”), Ex. 3. To be sure, many other reports examine resource planning best practices, and *Best Practices* cites some of these reports. However, the strength of *Best Practices* is its breadth and depth of coverage, as it reviews the practices of several states from across the Nation and prepares case studies on three states in particular—Arizona, Colorado, and Oregon.

Overall, *Best Practices* recommends active commission oversight, stakeholder engagement, and transparency. See *id.* at 26, 27. For example, commissions in Arkansas and Hawaii promote transparency and robust stakeholder engagement through their planning rules. *Id.* at 26, 27. The Kentucky and Colorado commissions also allow interveners to file, and require utilities to respond to, written interrogatories and comments. *Id.* at 21, 27. In turn, the supplemental information from the interveners and utilities supports these commissions’ planning oversight. *Id.*

Best Practices stresses transparent modeling because “[m]odeling in general is only as good as the *input assumptions* used to generate the portfolios.” *Id.* at 25. Specifically, the report suggests: “A proper [resource plan] will include discussion of the inputs and results, and appendices with full technical details. Only items that are truly sensitive business information should be treated as confidential, because such treatment can hinder important stakeholder input processes.” *Id.* at 32. Further, the best practice for commissions is to “take an active role in assessing the validity of inputs used by the utilities in their filings, the resulting outcomes, and whether these are consistent with both the [relevant state] rules and the state’s energy policies and goals.” *Id.* at 27. Limiting transparency hinders a commission’s ability to perform this oversight. See, e.g., *id.* at 25.

Best Practices also offers several insights on how to optimize modeling results. The first insight is to avoid “inadvertently exclud[ing] combinations of options that deserve consideration.” *Id.* at 31. This could happen when utilities define (potentially biased) future resource portfolios, rather than deferring to models to select the portfolios. See *id.* Alternatively, this could happen when “users constrain optimization models so that a model may not, given the cost, select the quantity of a specific resource that [the user] may want,” such as where a utility may limit the amount of a resource that a model can consider—for instance, limiting investments in energy efficiency to the minimum level that a state policy may require, rather than allowing the model to consider larger investments in energy efficiency that the model may otherwise identify as the least-cost, least-risk means of addressing energy needs. *Id.* at 27. Against such defects, the report offers this cure:

The best [resource plans] create levelized cost curves for demand-side resources that are comparable to the levelized cost curves for supply-

side resources. ... By developing cost curves for demand-side options, planners allow the model to choose an optimum level of investment. So if demand-side resources can meet customer demand for less cost than supply-side resources, as is frequently the case, this approach may result in more than the minimum investment levels required under other policies.

Id. at 29 (emphasis added) (quoting State and Local Energy Efficiency Action Network, *Using Integrated Resource Planning to Encourage Investment in Cost-Effective Energy Efficiency Measures* (2011), at 6, Ex. 4).

Best Practices also identifies the risks that are commonly addressed by scenario or sensitivity analyses in resource plans. These include: “fuel prices (coal, oil, and natural gas), load growth, electricity spot prices, variability of hydro resources, market structure, environmental regulations, and regulations on carbon dioxide (CO₂) and other emissions.” *Best Practices* at 5. The case studies on Arizona, Colorado, and Oregon illustrate how resource plans incorporate risk, as discussed below.

- ◊ **Arizona:** During the state’s 2012 planning process, the Arizona utility modeled low and high scenarios for what it deemed to be “major cost inputs,” including: natural gas prices, CO₂ prices, production and investment tax credits for renewable resources, energy efficiency costs, and monetization of SO₂, NO_x, PM, and water. *See id.* at 16. During the modeling, the utility monitored certain metrics to compare and evaluate potential resource investment alternatives. *Id.* at 16-17. In addition to revenue requirements, these metrics included: fuel diversity, capital expenditures, natural gas burn, water use, and CO₂ emissions. *Id.* at 16. Arizona’s final 2012 resource plan and materials from five stakeholder meetings are available at www.aps.com/en/ourcompany/ratesregulationsresources/resourceplanning/Pages/resourceplanning.aspx.
- ◊ **Colorado:** During the state’s 2011 planning process, the Colorado utility evaluated its baseline case and eight alternative cases under several sensitivity scenarios, altering the price of CO₂ emissions, renewable tax incentives, natural gas prices, and level of sales. *See Best Practices* at 19-22. Notably, per an intervener’s recommendation the Colorado Public Utilities Commission asked the utility to adopt higher energy efficiency goals. *Id.* at 27 (citing Colorado Public Utilities Commission, Decision No. C11-0442; Docket No. 10A-554EG (2011)). The utility incorporated the new goals into its calculation of resource need in subsequent modeling. *See Public Service Company of Colorado, 2011 Electric Resource Plan* (2011), available at www.xcelenergy.com/About_Us/Rates_&_Regulations/Resource_Plans/PSCo_2011_Electric_Resource_Plan.
- ◊ **Oregon:** Of the three case studies, Oregon’s planning process was the most comprehensive. *Best Practices* at 23. During the state’s 2012 planning process, the Oregon utility defined 67 input scenarios including: alternative transmission configurations, CO₂ price levels and regulation types, natural gas prices, and renewable resource policies. *Id.* at 24. Sensitivity cases examined additional incremental costs for coal plants, alternative load forecasts, renewable generation costs and incentives, and demand-side management resource availability. *Id.* Top resource portfolios were identified through a combination of lowest average portfolio cost and worst-case portfolio cost resulting from 100 simulation runs. *Id.* Final portfolios were selected after considering such criteria as risk-adjusted portfolio cost, 10-year customer rate impact, CO₂ emissions, supply

reliability, resource diversity, and uncertainty and risk surrounding greenhouse gas and renewable portfolio standard policies. *Id.*; *see also* PacifiCorp, 2011 *Integrated Resource Plan*, available at www.pacificorp.com/content/dam/pacificorp/doc/Energy_Sources/Integrated_Resource_Plan/2011IRP/2011IRP-MainDocFinal_Vol1-FINAL.pdf.

II. The Commission Should Not Approve the Utilities’ Ten-Year Site Plans: The Commission Cannot Determine What the Reliable, Least-Cost Energy Mix Is Because the Utilities’ Plans Are Missing the Requisite Comparative Analysis of Costs and Quantified Risks of All Relevant Energy Resources, Including Supply Side and Demand Side.

Commissioner Brown requested clarification of the Sierra Club’s recommendations for further action by the Commission. In short, we recommended that the Commission defer approval of the plans until the utilities provide the requisite comparative analysis of the costs and quantified risks of all relevant energy resources, including supply side and demand side. As discussed below, the missing analysis is legally required, and it will put the Commission—and the public—in a better position to ensure low-cost, low-risk power for Florida, and to understand the reasoning behind the investments that are ultimately selected. Moreover, subjecting such analysis to public notice and comment will provide the Commission with a fuller critique of the strengths and weaknesses of the plans.

a. The Utilities’ Ten-Year Site Plans Must Provide an Analysis of the Relative Cost and Relative Risk of All Relevant Energy Resources that is Sufficient to Allow the Commission to Classify the Plans as Suitable or Unsuitable, Suggest Alternatives to the Plans, and Ensure a Reliable, Least Cost Power Supply for Florida.

Ten-year site plans are Florida’s primary vehicle for collecting information about, and preparing for future conditions related to, the state’s power supply. The Commission established the legally required data requirements in Form PSC/RAD 43-E (11/97), “Electric Utility Ten-Year Site Plan Information and Data Requirements” (“Form”). *See also* F.A.C. § 25-22.072 (incorporating the Form by reference). Notably, the Form requires utilities to describe their planning assumptions, modeling methods, and outcomes. *See* Form at 4-6 (enumerating these requirements in the section titled “Other Planning Assumptions and Information”). Moreover, each plan must “provide sufficient information to assure the Commission that an adequate and reliable supply of electricity at the lowest cost possible is planned for the state’s electric needs.” *Id.* at 4. Here, cost should be considered over the life of the investment, and to ensure a robust understanding of potential costs, the plans should quantify the risks that could materially affect the costs, including factors identified above that are routinely considered by other commissions, such as fuel price surges and regulatory risks.

This reading of cost is supported by the governing Florida statutory provisions, F. S. § 186.601 (Ten-Year Site Plans) and § 187.201(11)(b)(10) (State Comprehensive Plan), which call for such circumspect planning. Under mandatory statutory criteria, the Commission must review each utilities’ ten-year site plan for, among other things, “possible alternatives to the proposed plan,” and must evaluate and prepare for risks like “disrupted energy supplies or unexpected price surges.” *See* F.S. § 186.801 (citing State Comprehensive Plan, F.S. § 187.201). Without a comparative cost-risk analysis, the Commission lacks the prerequisite information to perform this statutorily required

planning oversight. Moreover, as discussed at the Workshop and in our comments, the missing analysis hinders the Commission’s ability to fulfill its over-arching statutory duty to maintain “sufficient, adequate, and efficient service” and “fair and reasonable rates” for all Floridians. *See, e.g.*, F.S. § 366.03; *see also* Sierra Club, Comments on 2013 Ten-Year Plan Submittals Comments (2013) (“Sierra Club Comments”), Ex. 5.

b. The Utilities’ Ten-Year Site Plans Fail to Provide the Required Analysis of the Relative Cost and Relative Risk Among the Relevant Energy Resources Available to Florida.

Our comments and Workshop presentation demonstrated how two utilities in particular have failed to include sufficient cost and risk information in their plans. To recap, Gulf Power and Duke Energy Florida’s plans do not show the following:

- ◇ Alternative load forecasts, accounting for significant positive errors in historic forecasts;
- ◇ Implications, costs, and expected timelines of upcoming retirement/retrofit decisions;
- ◇ Alternative investment scenarios beyond the selected “reference case” or “base expansion case”;
- ◇ A sensitivity analysis of fuel price, carbon price, supply disruptions, and other risks;
- ◇ A direct comparison of levelized cost curves for demand-side and supply-side resources;
- ◇ A direct comparison of the relative risk among all potential energy resource investment; and
- ◇ A full accounting of energy efficiency and renewable resource options, including (but not limited to) renewable energy contracts and self-build options for utility scale solar systems.

Without the missing analysis, the Commission cannot meaningfully verify whether the proposed investments—such as Duke’s “planned power purchases from 2016 through 2020 and planned installation of combined cycle facilities in 2018 (1,307 MW, winter capacity) and 2020 (another 1,307 MW) at undesignated sites,” Progress (now Duke) Energy Florida TYSP at 3-2—do in fact provide reliable, least-cost power.

c. The Commission Should Require the Utilities to Conduct a Comparative Cost-Risk Analysis and Subject the Analysis to a Public Comment Period.

As discussed at the Workshop, Florida’s energy system is at a crossroads and planning presents a critical opportunity to enhance the understanding of energy options among all interested parties. The Sierra Club urges the Commission to require the utilities to conduct a comparative cost-risk analysis and invite interveners’ comments on this analysis. Doing so now would help the Commission address pressing issues, including the need to: (1) plan for significant coal and nuclear retirements; (2) appropriately minimize Florida’s exposure to natural gas price shocks and supply disruptions; (3) evaluate and seize opportunities to pursue cost competitive energy resources; and (4) hedge against the costs and risks of fossil fuel-burning generation capacity.

i. The Utilities Should Provide a Full Retirement/Retrofit Analysis of Existing Generation Capacity to Ensure an Accurate and Meaningful Cost-Risk Comparison of Energy Options Going Forward.

While Gulf Power and Duke Energy Florida have confirmed the Sierra Club’s retirement predictions from last year, we expect (but have not seen plans that address) more coal-burning unit retirements within the planning horizon, such as Lansing Smith 1 and 2. As we have seen, the Federal

Government has and may well continue to ratchet down power plant emissions under the Clean Air Act to address public health and welfare concerns. These regulations could impact the economic viability of certain fossil-fuel burning capacity in Florida. Indeed, the Florida Reliability Coordinating Council (FRCC) has acknowledged “potential multiple generation retirements from the same site, starting as early as April 2015.” FRCC, 2013 Load & Resource Reliability Assessment Report (2013). In any event, we continue to urge the Commission to require the utilities to provide a straightforward retirement/retrofit analysis, including decommissioning costs and timelines for existing generating capacity, as well as their implications for the utilities’ generating needs. This information is critical for developing an accurate cost-risk comparison of all relevant energy resources available to Florida going forward.

ii. The Utilities Should Identify and Analyze Options to Minimize Florida’s Exposure to Natural Gas Price Shocks and Supply Disruptions.

One of the utilities’ plans most troubling defects is their unwarranted reliance on more natural gas imports—channeling money out-of-state and worsening Florida’s exposure to natural gas price shocks and supply disruptions. As the Sierra Club has stressed, nowhere do the plans substantiate that proceeding this way is cost effective or necessary. For example, Duke and Gulf Power forecasted load growth near 1% per year over the planning horizon, which is well within the range that demand-side management could address at a lower cost. *See* Sierra Club Comments.

Moreover, natural gas-burning capacity is risky in ways that alternative (zero fuel cost) energy is not. Here, we recap three sources of risk. First, the U.S. Energy Information Administration (EIA) dramatically revised downward its estimates of the domestic shale gas reserves, by 42% nationally, and by 66% in the Marcellus. *See* EIA, *Advanced Energy Outlook 2012 Early Release Overview* (2012) at 9. Second, the natural gas industry is moving quickly to export liquefied natural gas. *See, e.g.*, Federal Energy Regulatory Commission, *Proposed/Potential North America LNG Import/Export Terminals*, available at www.ferc.gov/industries/gas/indus-act/lng/lng-proposed-potential.pdf (last visited October 11, 2013). Both of these factors—declining supply and increasing demand at international market prices—create a risk of materially higher natural gas prices in the future. To be sure, numerous studies examine the implications of natural gas exports, and at the Workshop we highlighted EIA’s higher risk case predicting that rapid expansion of gas exports could drive up domestic natural gas prices at the wellhead by as much as 54% (\$3.23/Mcf) by 2018. Whether or not this particular rate of price increase comes to pass, it certainly suggests that the Commission would benefit from a transparent analysis of price shock risks before it approves further natural gas generation in Florida—an analysis which is lacking in the plans.

Third, Florida’s limited natural gas transport infrastructure raises the specter of supply disruptions. Planning should address such risks and should include the costs of building additional infrastructure, such as additional natural gas pipelines, in evaluating energy investment options. For all these reasons, the Commission should instruct the utilities to identify in their cost-risk comparisons all relevant energy resource investment options that minimize Florida’s exposure to natural gas prices shocks and supply disruptions.

iii. The Utilities Should Identify and Justify How They Value and Select Alternative Energy Resources, Including the Value that Renewable Energy And Energy Efficiency Provide For Capacity and Energy Needs,

and As A Hedge Against the Risks and Costs of Further Natural Gas Generation.

As we identified at the Workshop, alternative energy investments are low-cost, low-risk, and compare favorably to conventional generation. The Commission would benefit from a full analysis of such resources in the utilities' ten-year site plans. Duke Energy Florida's plan has served as our example of just how little information the utilities have provided on alternative energy investments. This dearth of information prevents the Commission from verifying that cost-effective alternative energy investments (demand side and supply side) have been appropriately valued and incorporated into the plans. Duke's plan states that by March 2013 the utility's ongoing Request for Renewables logged over 310 responses—responses that are not disclosed or described in Duke's plan. *See* Duke TYSP at 3-21. Duke's plan also omits the option of self-building renewable energy projects. The plan plainly lacks the requisite comparative cost-risk analysis, and even lacks the statutorily required "statement describing how the production and purchase of renewable energy resources impact the utility's present and future capacity and energy needs." *See* F.S. § 186.801(2)(j).

The Commission should not approve such defective plans, especially since the 2012 legislative study determined that Florida has a track record of cost-effective alternative energy investments that have yielded net benefits to Florida's ratepayers. *See* Galligan et al., *Evaluation of Florida's Energy Efficiency and Conservation Act* (Dec. 7, 2012) ("*FEECA Study*") at 9, 10. Instead, we continue to strongly recommend that the Commission instruct the utilities to provide analyses that identify: (1) how they valued and selected alternative energy resources, (2) how these resources impact the utilities' capacity and generation needs, and (3) how the utilities have captured the hedge value of alternative energy resources against the risks associated with further expansion of fossil fuel-burning generation, especially of natural gas.

III. The Commission Should Demand a Clear and Thorough Analysis of the Comparative Costs and Risks of Energy Resources, Including Enhanced Energy Efficiency and Renewable Energy Investments, Because in Today's Market, the Analysis May Well Show that it is More Prudent to Invest in Energy Efficiency and Renewable Energy than Natural Gas.

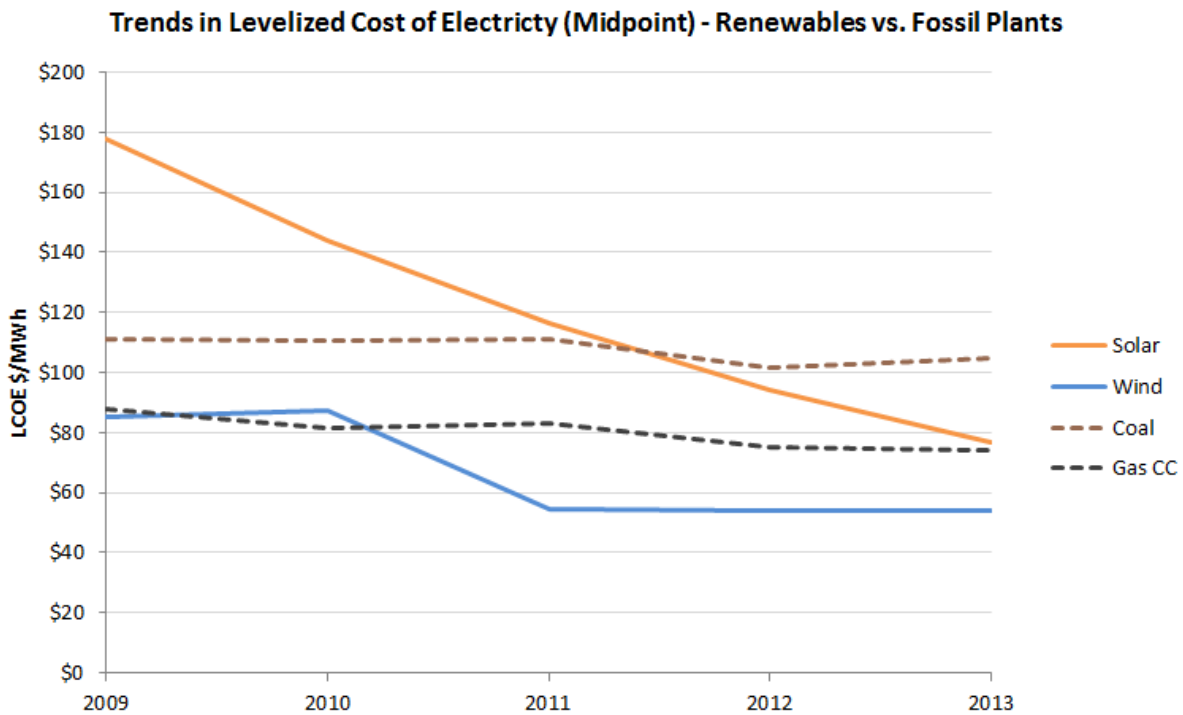
Although at the Workshop we spent a considerable amount of time addressing risks of further natural gas development, the other half of a cost and risk analysis is cost. As discussed at the Workshop, energy markets—and the costs of various types of energy resources, both supply and demand—are rapidly changing. Renewable energy generation continues to plummet in price, while coal and nuclear generation continue to increase, and natural gas is showing clear and increasing signs of significant upward pressure. In this mix, energy efficiency continues to be by far the cheapest energy resources in the market today.

As we noted at the Workshop, there are any number of ways to evaluate such costs. Below we identify some of the more common means of evaluating costs, and reiterate information indicating what those costs are in today's market.

a. Levelized Cost of Electricity Is One Common Comparative Metric of The Costs of Energy Resources.

Levelized cost of electricity (LCOE) is one key metric for comparing resource costs, and one commonly cited source of LCOE data is the international advisory and asset management firm Lazard Ltd, *Lazard’s Levelized Cost of Energy Analysis—Version 7.0* (2013) (“*Lazard’s Analysis*”). At the Workshop we emphasized that national LCOE data can reveal cost trends, while resource planning best practice is for utilities to create (generally using models) levelized cost curves for demand-side resources that are comparable to the levelized cost curves for supply-side resources available within the context of the regional grid. See, e.g., State and Local Energy Efficiency Action, *Using Integrated Resource Planning to Encourage Investment in Cost-Effective Energy Efficiency Measures* (2011) at 7.

Since we have not seen evidence of such side-by-side levelized cost comparisons in the ten-year site plans, we have cited *Lazard’s Analysis*: Energy efficiency programs average \$0-\$50 MWh, or better, since these figures do not fully account for the opportunity cost of foregone consumption due to demand response. See *Lazard’s Analysis* at 4. Renewable resources are becoming increasingly cost competitive. Utility-scale solar photovoltaic systems are approaching “grid parity” without tax subsidies and may currently reach “grid parity” under certain conditions. *Id.* As discussed at the Workshop, the graph reproduced below plots Lazard’s levelized cost of electricity data from 2009 to 2013 to show cost trends of renewable resources like solar and wind versus conventional fossil fuel-burning resources like coal and natural gas.



Source: Lazard 2009-2013.

The trends shown in this graph favor investments in renewable resources like wind and solar because they are already cost-competitive with conventional generation resources like coal and gas, and their prices keep falling fast—thanks largely to technological advances, such as larger wind turbines and cheaper components for solar-power arrays. As we have noted, the opposite is true for

fossil fuel-burning generation; costs are generally increasing due to increasingly stringent pollution controls, fuel price volatility, and supply disruption risks.

a. Given Rapidly Changing Electricity Markets, Requests for Proposals are a Common, But Not Exclusive, Way of Identifying Resource Costs.

Commissioner Balbis requested clarification of the Sierra Club's suggestion of using requests for proposals (RFPs) to test resource costs for ten-year site planning purposes. In short, we suggested that, as an initial step, the Commission should obtain from the utilities more information about the renewable energy bids that they received in response to existing RFPs. Duke's plan, for example, states that the utility's ongoing Request for Renewables returned over 310 bids by March 2013. Bids like these are a potential trove of cost information that would enhance the understanding of energy options among all interested parties. *See* Duke TYSP at 3021. Indeed, the 2012 legislative study found that Florida jurisdictional utilities are missing opportunities to share information and best practices on saving energy. *See FEECA Study* at 13. Ten-year site planning is where the utilities can start to remedy this, and the Commission should instruct the utilities to make the bid information, other than the truly sensitive business information, available to the public.

Further, at the Workshop we suggested that a review of existing RFPs and responsive bids may well reveal opportunities for further market testing, perhaps through RFPs, to identify the cost-effective resources available to Florida. For instance, Connecticut recently issued an RFP to identify cost-effective resources for meeting that state's energy policy goals. *See* Connecticut Department of Energy and Environmental Protection, *Request for Proposals for Long Term Energy Contracts* (2013), available at www.ct.gov/deep/cwp/view.asp?a=4405&Q=527812&deepNav_GID=2121. Notably, *Power Purchase Agreement Checklist for States and Locals Governments*, produced by that National Renewable Energy Laboratory, offers guidance on developing RFPs for solar photovoltaic (PV) power purchase agreements in particular. *See* National Renewable Energy Laboratory, *Power Purchase Agreement Checklist for States and Locals Governments* (2009), Ex. 6.

Alternatively, as we discussed at the Workshop, the Commission could identify resource costs by reviewing examples of recent electricity purchase or production decisions, such as the new solar photovoltaic generation in Georgia and Colorado. *See* Georgia Public Service Commission, *PSC Approves Agreement to Resolve Georgia Power 2013 Integrated Resource Plan and Expands the Use of Solar Energy* (Aug. 2013); Xcel Energy, *Xcel Energy Proposes Adding Economic Solar, Wind to Meet Future Customer Energy Demands* (Sept. 2013). Additional cost data—especially from local or regional electricity markets—is essential for prudent planning, and the Commission should require the utilities to include sufficient cost data in their plans to substantiate the cost-effectiveness of their proposed investments.

IV. Conclusion

For all these reasons, the Commission should defer ten-year site plan approval, including approval of planned new gas-burning capacity, until the utilities provide the missing comparative cost-risk

analysis. Moreover, the Sierra Club urges the Commission to follow the best practice of making the comparative cost-risk analysis available for public comment.

Sincerely,

/s/

Diana Csank
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Sierra Club Environmental Law Program
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(202)-548-4595
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Exhibit D



Robby A. Odom
Station Manager, Crystal River
Steam Plant & Fuel Operations

January 21, 2014

Submitted via email:

Erin.DiBacco@dep.state.fl.us

SWD_AIR@dep.state.fl.us

<ftp://ftp.dep.state.fl.us/pub/incoming>

Erin Anthony DiBacco
Compliance and Enforcement
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, FL 33637

Dear Mr. DiBacco:

Re: Crystal River Energy Complex Units 1 and 2
Permit No.: 0170004-040-AC
Test Report for Coal Blend Testing / Post Combustion Controls

Please find attached the information to be submitted per the requirements of Air Permit No. 0170004-040-AC (Coal Blend Testing/Post Combustion Controls). The testing was conducted from September 16 through October 3, 2013 on Crystal River Unit 1 and from November 4 through November 21, 2013 on Crystal River Unit 2. Please note that no testing of sub-bituminous (Powder River Basin) coal blends occurred during the test burn, only various types of bituminous coal were tested, with and without hydrated lime and/or activated carbon injection.

Please contact Ron Johnson at (352) 501-5170 or Jamie Hunter at (727) 820-5764 if you have any questions.

Sincerely,

A handwritten signature in blue ink that reads "Mark Gillespie".

for Robby A. Odom
Station Manager/Responsible Official

Enclosures

Appendix 1

(Schedule and Overall Description of each Test Burn Run)

Crystal River Unit 1 September Test Burn Results

| Start Time | End Time | Load | Coal | Sootblowing? | Reagent Injection (lb/hr) | | PM (lb/Mbtu) | Unit 1 | | | Notes |
|---------------|---------------|----------|----------|--------------|---------------------------|------------------|--------------|---------------|-------------------|-------------|---|
| | | | | | Hydrated Lime | Activated Carbon | | HCl (lb/Mbtu) | Mercury (lb/Tbtu) | Opacity (%) | |
| 9/16/13 0:00 | 9/16/13 0:00 | 92% | CAPP | | 0 | 0 | 0.047 | | | 15 | |
| 9/16/13 12:30 | 9/16/13 13:39 | (363 MW) | CAPP | | 0 | 0 | | | | | Run Void due to Rail Issue |
| 9/16/13 19:10 | 9/16/13 20:20 | | CAPP | Yes | 0 | 0 | 0.056 | | | 21 | |
| 9/18/13 11:30 | 9/18/13 12:32 | 70% | West Elk | | 0 | 0 | 0.030 | 0.007 | 1.715 | 7 | |
| 9/18/13 13:20 | 9/18/13 14:32 | (277 MW) | West Elk | | 0 | 0 | 0.019 | 0.009 | 1.716 | 8 | |
| 9/18/13 15:10 | 9/18/13 16:22 | | West Elk | Yes | 0 | 0 | 0.022 | 0.008 | 1.557 | 10 | |
| 9/19/13 8:30 | 9/19/13 9:42 | 85% | West Elk | | 0 | 0 | 0.045 | 0.012 | 1.794 | 15 | |
| 9/19/13 10:10 | 9/19/13 11:22 | (335 MW) | West Elk | | 0 | 0 | 0.042 | 0.007 | 1.773 | 15 | |
| 9/19/13 12:00 | 9/19/13 13:12 | | West Elk | Yes | 0 | 0 | 0.057 | 0.005 | 1.498 | 16 | |
| 9/20/13 9:00 | 9/20/13 10:12 | 92% | West Elk | | 0 | 0 | 0.057 | 0.003 | 1.145 | 20 | |
| 9/20/13 10:30 | 9/20/13 11:42 | (363 MW) | West Elk | | 0 | 0 | 0.095 | 0.004 | 1.163 | 23 | |
| 9/20/13 12:05 | 9/20/13 13:17 | | West Elk | Yes | 0 | 0 | 0.110 | 0.004 | 1.154 | 24 | |
| 9/23/13 9:00 | 9/23/13 10:12 | 70% | West Elk | | 75 | 150 | 0.053 | 0.005 | 0.893 | 14 | |
| 9/23/13 12:20 | 9/23/13 13:32 | (277 MW) | West Elk | | 75 | 75 | 0.042 | 0.004 | 0.895 | 15 | |
| 9/23/13 14:00 | 9/23/13 15:12 | | West Elk | Yes | 75 | 75 | 0.041 | 0.003 | 0.861 | 14 | |
| 9/24/13 9:35 | 9/24/13 10:47 | 85% | West Elk | | 75 | 75 | 0.074 | 0.003 | 1.040 | 21 | |
| 9/24/13 11:25 | 9/24/13 12:37 | (335 MW) | West Elk | | 75 | 75 | 0.073 | 0.003 | 1.029 | 23 | |
| 9/24/13 13:05 | 9/24/13 14:17 | | West Elk | Yes | 75 | 75 | 0.080 | 0.003 | 0.916 | 25 | |
| 9/30/13 9:35 | 9/30/13 10:47 | 92% | CAPP | | 50 | 75 | 0.102 | 0.079 | 2.995 | 16 | High Ash CAPP |
| 9/30/13 11:35 | 9/30/13 12:47 | (363 MW) | CAPP | | 50 | 75 | 0.093 | 0.090 | 3.026 | 18 | |
| 9/30/13 13:15 | 9/30/13 14:27 | | CAPP | Yes | 50 | 75 | 0.139 | 0.088 | 2.601 | 21 | |
| 10/1/13 8:10 | 10/1/13 9:22 | 85% | West Elk | | 50 | 75 | 0.105 | 0.002 | 0.776 | 19 | |
| 10/1/13 10:05 | 10/1/13 11:17 | (335 MW) | West Elk | | 50 | 75 | 0.079 | 0.002 | 0.704 | 20 | |
| 10/1/13 12:00 | 10/1/13 13:12 | | West Elk | Yes | 50 | 75 | 0.088 | 0.002 | 0.749 | 22 | |
| 10/2/13 8:35 | 10/2/13 9:42 | 85% | West Elk | | 50 | 0 | 0.080 | 0.002 | 1.037 | 20 | |
| 10/2/13 10:10 | 10/2/13 11:10 | (335 MW) | West Elk | | 50 | 0 | | | 0.986 | | HCl & PM Run void due to filter temperature issue |
| 10/2/13 12:10 | 10/2/13 13:22 | | West Elk | Yes | 50 | 0 | 0.079 | 0.002 | 0.875 | 22 | |
| 10/2/13 14:10 | 10/2/13 15:22 | | West Elk | | 50 | 0 | 0.113 | 0.002 | 0.974 | 26 | |
| 10/3/13 7:25 | 10/3/13 8:37 | 92% | West Elk | | 50 | 75 | 0.119 | 0.004 | 0.858 | 28 | |
| 10/3/13 9:35 | 10/3/13 10:47 | (365 MW) | West Elk | | 50 | 75 | | 0.003 | 0.731 | | No PM run |
| 10/3/13 13:50 | 10/3/13 15:02 | | West Elk | | 0 | 0 | | 0.002 | 1.131 | | No PM run |

Crystal River Unit 2 November Test Burn Results

| Start Time | End Time | Load | Coal | Sootblowing? | Reagent Injection (lb/hr) | | | HCl (lb/Mbtu) | Unit 2 | | Opacity (%) | Notes |
|----------------|----------------|-----------------|----------|--------------|---------------------------|------------------|--------------|---------------|-------------------|----------------------------|-------------|--|
| | | | | | Hydrated Lime | Activated Carbon | PM (lb/Mbtu) | | Mercury (lb/Tbtu) | SO ₂ (lb/MMBtu) | | |
| 11/4/13 10:05 | 11/4/13 11:14 | 92% (480 MW) | CAPP | | 0 | 0 | 0.015 | 0.089 | 3.014 | 0.0013 | 5 | |
| 11/4/13 12:10 | 11/4/13 13:18 | | CAPP | | 0 | 0 | 0.012 | 0.085 | 3.578 | 0.0008 | 6 | |
| 11/4/13 13:55 | 11/4/13 15:03 | | CAPP | Yes | 0 | 0 | 0.021 | 0.081 | 3.339 | 0.0011 | 6 | |
| 11/6/13 12:00 | 11/6/14 13:08 | 70% (365 MW) | West Elk | | 0 | 0 | 0.033 | 0.006 | 1.323 | | 12 | Unit 2 tripped the previous night, 11/5. Build-up of residual light oil on ESP plates appears to have adversely impacted collection performance. |
| 11/6/13 13:35 | 11/6/14 15:03 | | West Elk | | 0 | 0 | 0.037 | 0.006 | 1.211 | | 13 | |
| 11/6/13 15:10 | 11/6/14 15:18 | | West Elk | Yes | 0 | 0 | 0.048 | 0.007 | 1.281 | | 15 | |
| 11/7/13 9:00 | 11/7/14 9:30 | | West Elk | | 0 | 0 | 0.013 | | | | 3 | |
| 11/7/13 11:15 | 11/7/13 12:23 | 85% (440 MW) | West Elk | | 0 | 0 | 0.062 | 0.011 | 1.267 | | 16 | |
| 11/7/13 12:50 | 11/7/13 13:58 | | West Elk | | 0 | 0 | 0.056 | 0.012 | 1.127 | | 16 | |
| 11/7/13 14:30 | 11/7/13 15:38 | | West Elk | Yes | 0 | 0 | 0.071 | 0.010 | 1.185 | | 17 | |
| 11/11/13 11:50 | 11/11/13 12:58 | 92% (480 MW) | West Elk | | 0 | 0 | 0.017 | 0.004 | 1.241 | 0.0002 | 9 | |
| 11/11/13 13:25 | 11/11/13 14:33 | | West Elk | | 0 | 0 | 0.038 | 0.003 | 1.140 | 0.0003 | 12 | |
| 11/11/13 15:10 | 11/11/13 16:23 | | West Elk | Yes | 0 | 0 | 0.040 | 0.002 | 0.875 | 0.0012 | 13 | |
| 11/12/13 10:25 | 11/12/13 11:33 | 70% (365 MW) | West Elk | | 48 | 75 | 0.022 | 0.002 | 0.587 | | 8 | |
| 11/12/13 12:00 | 11/12/13 13:08 | | West Elk | | 48 | 75 | 0.015 | 0.002 | 0.511 | | 9 | |
| 11/12/13 13:30 | 11/12/13 14:38 | | West Elk | Yes | 48 | 75 | 0.016 | 0.002 | 0.280 | | 10 | |
| 11/13/13 10:30 | 11/13/13 11:38 | 85% (440 MW) | West Elk | | 48 | 75 | 0.061 | 0.002 | 0.422 | | 16 | 30 minute run |
| 11/13/13 12:10 | 11/13/13 12:45 | | West Elk | | 48 | 75 | 0.045 | 0.002 | 0.371 | | 17 | |
| 11/14/13 10:15 | 11/14/13 11:23 | 85% (440 MW) | West Elk | | 0 | 0 | 0.063 | 0.002 | 1.027 | | 16 | Dropped 10MW during test ID Fan biased flow to C ESP |
| 11/14/13 11:45 | 11/14/13 12:18 | | West Elk | | 0 | 0 | 0.040 | 0.002 | 0.975 | | 16 | |
| 11/14/13 15:45 | 11/14/13 16:53 | | 70% | | 0 | 0 | 0.037 | 0.003 | 1.006 | | 12 | |
| 11/14/13 17:25 | 11/14/13 17:58 | | 85% | | 0 | 0 | 0.048 | 0.011 | 0.974 | | 17 | |
| 11/18/13 10:15 | 11/18/13 11:23 | 92% (480 MW) | West Elk | | 50 | 50 | 0.044 | 0.009 | 0.961 | 0.0017 | 13 | |
| 11/18/13 11:45 | 11/18/13 12:53 | | West Elk | | 50 | 50 | 0.072 | 0.005 | 0.722 | 0.0004 | 15 | |
| 11/18/13 13:15 | 11/18/13 14:23 | | West Elk | | 50 | 50 | 0.048 | 0.004 | 0.670 | 0.0005 | 16 | |
| 11/21/13 9:30 | 11/21/13 10:38 | 92% (480 MW) | West Elk | | 0 | 0 | 0.049 | 0.004 | 0.607 | 0.0007 | 12 | |
| 11/21/13 11:00 | 11/21/13 12:08 | | West Elk | | 0 | 0 | 0.029 | 0.004 | 0.398 | 0.0002 | 12 | |
| 11/21/13 12:30 | 11/21/13 13:38 | | West Elk | | 0 | 0 | 0.026 | 0.004 | 0.413 | 0.0003 | 9 | |
| 11/21/13 14:30 | 11/21/13 15:38 | | West Elk | | 0 | 0 | 0.029 | 0.004 | 0.450 | 0.0003 | 10 | |

Exhibit E

IPM Model – Revisions to Cost and Performance for APC Technologies

Particulate Control Cost Development Methodology

FINAL

March 2011

Project 12301-009

Systems Research and Applications Corporation

Prepared by



55 East Monroe Street • Chicago, IL 60603 USA • 312-269-2000

LEGAL NOTICE

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This work was funded and reviewed by the U.S. Environmental Protection Agency under the supervision of William A. Stevens, Senior Advisor – Power Technologies. Additional input and review was provided by Dr. Jim Staudt, President of Andover Technology Partners.

Particulate Control Cost Development Methodology – Final

Technology Description

There are two main particulate capture unit operations employed in the utility industry:

- Electrostatic Precipitator (ESP)
- Fabric Filter (FF)

ESPs have been implemented in the utility industry since the 1960's; there have been a great number of installations in the U.S. and around the world. The ESP collects PM in a three step process: charging, collecting, and cleaning the collected ash off the electrodes. The ESP relies on fly ash resistivity to charge and collect the particles. ESPs can reduce PM emissions to below 0.015 lb/MMBtu and opacity below 10% depending on the ash characteristics and particulate loading. However, it is difficult to collect fly ash when burning low sulfur coal because of high fly ash resistivity requiring large ESP. ESPs are not well suited for processes that are highly variable because the collection efficiency is sensitive to fluctuations in gas stream conditions.

Recently fabric filters (specifically pulse-jet type or PJFF) have become the preferred choice for new and retrofit utility particulate capture. PJFFs have been utilized commercially for over 25 years and are considered a mature technology. Modern PJFFs are reliable, versatile and cost effective. In a PJFF, particulate matter is collected on a fabric bag; then the particles are cleaned off the bag surfaces with a pulse of air. During cleaning, the collected particulate falls into hoppers and is removed via an ash handling system to a silo. PJFF suppliers provide guarantees as low as 0.010 lb/MMBtu depending on the application.

Co-Benefits

Due to the filter cake inherent in PJFFs, PJFF units have additional benefits that are not available in ESPs:

- Mercury removal is enhanced by a PJFF by contacting the flue gas with the unburned carbon in the fly ash;
- Collection of injected activated carbon with a PJFF can dramatically increase the mercury removal from the flue gas versus an ESP particulate collector;
- With in-duct dry sorbent injection, the SO₂ removal can be greatly increased when a PJFF is used versus an ESP for the sorbent capture; and
- Acid gases are removed when the flue gas is passed through the filter cake in a PJFF.

Particulate Control Cost Development Methodology – Final

Establishment of Cost Basis

The major cost driver for a baghouse is the required gross air-to-cloth (A/C) ratio. When the baghouse is installed in a retrofit situation following another collection device, such as an ESP, then an A/C of 6.0 would be appropriate if activated carbon injection is applied for mercury removal.

If the baghouse will be used as the sole particulate capture unit operation, an A/C of 4.0 should be specified. The lower A/C ratio will provide better bag life with the high inlet particulate loading expected for the single particulate capture device in the process.

Cost data from the S&L current database of projects, for several different baghouse installations, was reviewed and a relationship was developed for the capital costs of the system on a flue gas rate basis. The capital costs include:

- Duct work modifications,
- Foundations,
- Structural steel,
- ID fan modifications or new booster fans, and
- Electrical modifications.

Methodology

Inputs

Several input variables are required in order to predict the total future retrofit costs:

- Type of coal,
- Unit size,
- Unit heat rate, and
- Baghouse required size.

A retrofit factor that equates to difficulty in construction of the system must be defined.

Outputs

Total Project Costs (TPC)

A base installed cost for the baghouse is calculated (BM). The base installed cost is then increased by:

- Engineering and construction management costs at 10% of the BM cost;
- Labor adjustment for 6 x 10 hour shift premium, per diem, etc., at 5% of the BM cost; and
- Contractor profit and fees at 5% of the BM cost.

Particulate Control Cost Development Methodology – Final

A capital, engineering, and construction cost subtotal (CECC) is established as the sum of the BM and the additional engineering and construction fees.

Additional costs and financing expenditures for the project are computed based on the CECC. Financing and additional project costs include:

- Owner's home office costs (owner's engineering, management, and procurement) at 5% of the CECC; and
- Allowance for Funds Used During Construction (AFUDC) at 6% of the CECC is added to account for AFUDC based on a complete project duration of 2 years.

The total project cost is based on a multiple lump sum contract approach. Should a turnkey engineering procurement construction (EPC) contract be executed, the total project cost would be 10 to 15% higher than what is currently estimated.

Escalation is not included in the estimate. The total project cost (TPC) is the sum of the CECC and the additional costs and financing expenditures.

Fixed O&M (FOM)

The fixed operating and maintenance (O&M) cost is a function of the additional operations staff (FOMO), maintenance labor and materials (FOMM), and administrative labor (FOMA) associated with the baghouse installation. The FOM is the sum of the FOMO, FOMM, and FOMA.

The following factors and assumptions underlie calculations of the FOM:

- All of the FOM costs were tabulated on a per kilowatt-year (kW-yr) basis.
- In general, 0 additional operators are required for a baghouse.
- The fixed maintenance materials and labor is a direct function of the process capital cost (BM).
- The administrative labor is a function of the FOMO and FOMM.

Variable O&M (VOM)

Variable O&M is a function of:

- Bag and cage replacement.

Particulate Control Cost Development Methodology – Final

The following factors and assumptions underlie calculations of the VOM:

- All of the VOM costs were tabulated on a per megawatt-hour (MWh) basis.
- Bag and cage replacement every 3 and 9 years respectively for unit operations with 6.0 A/C.
- Bag and cage replacement every 5 and 10 years respectively for unit operations with 4.0 A/C.

Input options are provided for the user to adjust the variable O&M costs per unit. Average default values are included in the base estimate. The variable O&M costs per unit options are:

- Bag and cage costs in \$/item.

The variables that contribute to the overall VOM are:

$$\text{VOMB} = \text{Variable O\&M costs for bags and cage replacement}$$

The total VOM is the VOMB. The additional auxiliary power requirement is reported as a percentage of the total gross power of the unit.

Table 1 contains an example of the complete capital and O&M cost estimate worksheet for a baghouse installation.

Particulate Control Cost Development Methodology – Final

Table 1. Example Complete Cost Estimate for a 4.0 A/C Baghouse Installation (Costs are all based on 2009 dollars)

| Variable | Designation | Units | Value | Calculation |
|-----------------------------|-------------|-----------|---------------|---|
| Unit Size (Gross) | A | (MW) | 500 | <--- User Input |
| Retrofit Factor | B | | 1 | <--- User Input (An "average" retrofit has a factor = 1.0) |
| Gross Heat Rate | C | (Btu/kWh) | 9500 | <--- User Input |
| Type of Coal | D | | Bituminous | <--- User Input |
| Baghouse Air-to-Cloth Ratio | E | | 4.0 A/C Ratio | <--- User Input |
| Heat Input | F | (Btu/hr) | 4.75E+09 | = A * C * 1000 |
| Flue Gas Rate | G | (acfm) | 2,068,502 | Downstream of an air preheater For Bituminous Coal = A * C * 0.435 For PRB Coal = A * C * 0.400 For Lignite Coal = A * C * 0.362 |
| Aux Power | H | (%) | 0.60 | 0.6 default value Should be used for model input. |
| Aux Power Cost | J | (\$/kWh) | 0.06 | |
| Bag Cost | K | (\$/bag) | 30 | |
| Cage Cost | L | (\$/cage) | 30 | |
| Operating Labor Rate | M | (\$/hr) | 60 | Labor cost including all benefits |

| Capital Cost Calculation | Example | Comments |
|--|----------------------|---|
| Includes - Equipment, installation, buildings, foundations, electrical, and retrofit difficulty | | |
| BM (\$) = $[(E = 6.0 \text{ Air-to-Cloth then } 422, E = 4.0 \text{ Air-to-Cloth then } 476) * B * G^{0.81}]$ | \$ 62,128,000 | Base module for an additional baghouse including: ID or booster fans, piping, ductwork, etc... |
| BM (\$/kW) = | 124 | Base module cost per kW |
| Total Project Cost | | |
| A1 = 10% of BM | \$ 6,213,000 | Engineering and Construction Management costs |
| A2 = 5% of BM | \$ 3,106,000 | Labor adjustment for 8 x 10 hour shift premium, per diem, etc... |
| A3 = 5% of BM | \$ 3,106,000 | Contractor profit and fees |
| CECC (\$) = BM + A1 + A2 + A3 | \$ 74,553,000 | Capital, engineering and construction cost subtotal |
| CECC (\$/kW) = | 149 | Capital, engineering and construction cost subtotal per kW |
| B1 = 5% of CECC | \$ 3,728,000 | Owners costs including all "home office" costs (owners engineering, management, and procurement activities) |
| B2 = 6% of CECC + B1 | \$ 4,697,000 | AFUDC for baghouse: 6% for a 2 year engineering and construction cycle |
| TPC (\$) = CECC + B1 + B2 + C1 + C2 | \$ 82,978,000 | Total project cost |
| TPC (\$/kW) = | 166 | Total project cost per kW |
| Fixed O&M Cost | | |
| FOMO (\$/kW yr) = (0 additional operators) * 2080 * M / (A * 1000) | \$ - | Fixed O&M additional operating labor costs |
| FOMM (\$/kW yr) = BM * 0.005 / (B * A * 1000) | \$ 0.62 | Fixed O&M additional maintenance material and labor costs |
| FOMA (\$/kW yr) = 0.03 * (FOMO + 0.4 * FOMM) | \$ 0.01 | Fixed O&M additional administrative labor costs |
| FOM (\$/kW yr) = FOMO + FOMM + FOMA | \$ 0.63 | Total Fixed O&M costs |
| Variable O&M Cost | | |
| VOMB (\$/MWh) = $[(E = 6.0 \text{ Air-to-Cloth then } 0.004, E = 4.0 \text{ Air-to-Cloth then } 0.005) * (K/3 + L/9)]$ | \$ 0.15 | Variable O&M costs for bags and cages. |
| VOM (\$/MWh) = VOMB | \$ 0.15 | |

Particulate Control Cost Development Methodology – Final

Table 2. Example Complete Cost Estimate for a 6.0 A/C Baghouse Installation (Costs are all based on 2009 dollars)

| Variable | Designation | Units | Value | Calculation |
|-----------------------------|-------------|-----------|---------------|---|
| Unit Size (Gross) | A | (MW) | 500 | <--- User Input |
| Retrofit Factor | B | | 1 | <--- User Input (An "average" retrofit has a factor = 1.0) |
| Gross Heat Rate | C | (Btu/kWh) | 9500 | <--- User Input |
| Type of Coal | D | | Bituminous | <--- User Input |
| Baghouse Air-to-Cloth Ratio | E | | 6.0 A/C Ratio | <--- User Input |
| Heat Input | F | (Btu/hr) | 4.75E+09 | = A*C*1000 |
| Flue Gas Rate | G | (acfm) | 2,068,502 | Downstream of an air preheater For Bituminous Coal = A*C*0.435 For PRB Coal = A*C*0.400 For Lignite Coal = A*C*0.362 |
| Aux Power | H | (%) | 0.60 | 0.6 default value Should be used for model input. |
| Aux Power Cost | J | (\$/kWh) | 0.06 | |
| Bag Cost | K | (\$/bag) | 80 | |
| Cage Cost | L | (\$/cage) | 30 | |
| Operating Labor Rate | M | (\$/hr) | 60 | Labor cost including all benefits |

Capital Cost Calculation

Includes - Equipment, installation, buildings, foundations, electrical, and retrofit difficulty

BM (\$) = $\text{if}(E = 6.0 \text{ Air-to-Cloth then } 422, E = 4.0 \text{ Air-to-Cloth then } 476) * B * G * 0.81$

BM (\$/KW) =

Total Project Cost

A1 = 10% of BM

A2 = 5% of BM

A3 = 5% of BM

CECC (\$) = BM + A1 + A2 + A3

CECC (\$/KW) =

B1 = 5% of CECC

B2 = 8% of CECC + B1

TPC (\$) = CECC + B1 + B2 + C1 + C2

TPC (\$/KW) =

Fixed O&M Cost

FOMO (\$/kW yr) = (0 additional operators)*2080*M/(A*1000)

FOMM (\$/kW yr) = BM*0.005/(B*A*1000)

FOMA (\$/kW yr) = 0.03*(FOMO+0.4*FOMM)

FOM (\$/kW yr) = FOMO + FOMM + FOMA

Variable O&M Cost

VOMB (\$/MWh) = $\text{if}(E = 6.0 \text{ Air-to-Cloth then } 0.004, E = 4.0 \text{ Air-to-Cloth then } 0.005) * (K/3 + L/9)$

VOM (\$/MWh) = VOMB

Example

Comments

| | | |
|----|-------------------|--|
| \$ | 55,080,000 | Base module for an additional baghouse including: ID or booster fans, piping, ductwork, etc... |
| | 110 | Base module cost per kW |
| \$ | 5,508,000 | Engineering and Construction Management costs |
| \$ | 2,754,000 | Labor adjustment for 6 x 10 hour shift premium, per diem, etc... |
| \$ | 2,754,000 | Contractor profit and fees |
| \$ | 66,096,000 | Capital, engineering and construction cost subtotal |
| | 132 | Capital, engineering and construction cost subtotal per kW |
| \$ | 3,305,000 | Owners costs including all "home office" costs (owners engineering, management, and procurement activities) |
| \$ | 4,164,000 | AFUDC for baghouse: 6% for a 2 year engineering and construction cycle |
| \$ | 73,565,000 | Total project cost |
| | 147 | Total project cost per kW |
| \$ | - | Fixed O&M additional operating labor costs |
| \$ | 0.55 | Fixed O&M additional maintenance, material and labor costs |
| \$ | 0.01 | Fixed O&M additional administrative labor costs |
| \$ | 0.56 | Total Fixed O&M costs |
| \$ | 0.12 | Variable O&M costs for bags and cages. |
| \$ | 0.12 | |

D. Progress Energy – Crystal River



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

Sent by Electronic mail – Received Receipt Requested

Mr. Robby Odom, Plant Manager
Progress Energy Florida, Inc
299 First Avenue, North
St. Petersburg, Florida 3370

Re: Project No. 0170004-036-AC
Progress Energy Florida, Crystal River Power Plant
Regional Haze Implementation

Dear Mr Odom:

On June 15, 2012, you submitted an application requesting a sulfur dioxide (SO₂) emissions standard of 0.15 lb/MMBtu heat input on a 30-day rolling average basis from Units 1 and 2. The application also requested the installation of SO₂ control technologies to meet the Florida Regional Haze Implementation Plan. The second alternative in the application was a shutdown date of December 31, 2020 for firing coal in Crystal River Power Plant's Units 1 and 2. The third option requested was an emission limit to exempt out of the Florida Regional Haze Implementation Plan for Units 1 and 2. The existing facility is located in Citrus County at 15760 West Power Line Street in Crystal River, Florida. Enclosed are the following documents: the Written Notice of Intent to Issue Air Permit; the Public Notice of Intent to Issue Air Permit; the Technical Evaluation and Preliminary Determination; and the Draft Permit with Appendices. The Public Notice of Intent to Issue Air Permit is the actual notice that you must have published in the legal advertisement section of a newspaper of general circulation in the area affected by this project. If you have any questions, please contact the project engineer, Leigh-Ann Pell at 850-717-9033.

Sincerely,

Jeffery F. Koerner, Program Administrator
Office of Permitting and Compliance
Division of Air Resource Management

Enclosures

JFK/al/lp

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

*In the Matter of an
Application for Air Permit by:*

Progress Energy Florida, Inc
299 First Avenue, North
St. Petersburg, Florida 3370

Project No. 0170004-036-AC
Minor Air Construction Permit

Authorized Representative:
Robby Odom, Plant Manager

Crystal River Power Plant
Regional Haze Implementation
Citrus County, Florida

Facility Location: Progress Energy Florida proposes to operate the existing Crystal River Power Plant, which is located in Citrus County at 15760 West Power Line Street in Crystal River, Florida.

Project: The project establishes a sulfur dioxide (SO₂) emission standard of 0.15 pounds per million Btu of heat input or 95 percent (%) reduction, whichever is less stringent, for coal-fired Units 1 and 2. The limit will be accomplished by a combination of dry flue gas desulfurization (FGD) and changes to the electrostatic precipitators and/or addition of baghouses to capture the reacted sorbent. This condition shall become effective upon the effective date of EPA's approval of these specific requirements in the Florida Regional Haze State Implementation Plan. Details of the project are provided in the application and the enclosed Technical Evaluation and Preliminary Determination.

Permitting Authority: Applications for air construction permits are subject to review in accordance with the provisions of Chapter 403, Florida Statutes (F.S.) and Chapters 62-4, 62-210 and 62-212 of the Florida Administrative Code (F.A.C.). The proposed project is not exempt from air permitting requirements and an air permit is required to perform the proposed work. The Division of Air Resource Management's (DARM) Office of Permitting and Compliance is the Permitting Authority responsible for making a permit determination for this project. The Permitting Authority's physical address is: 111 South Magnolia Drive, Suite #4, Tallahassee, Florida. The Permitting Authority's mailing address is: 2600 Blair Stone Road, MS #5505, Tallahassee, Florida 32399-2400. The Permitting Authority's telephone number is 850/717-9000.

Project File: A complete project file is available for public inspection during the normal business hours of 8:00 a.m. to 5:00 p.m., Monday through Friday (except legal holidays), at address indicated above for the Permitting Authority. The complete project file includes the Draft Permit, the Technical Evaluation and Preliminary Determination, the application, and the information submitted by the applicant, exclusive of confidential records under Section 403.111, F.S. Interested persons may contact the Permitting Authority's project review engineer for additional information at the address or phone number listed above.

Notice of Intent to Issue Permit: The Permitting Authority gives notice of its intent to issue an air permit to the applicant for the project described above. The applicant has provided reasonable assurance that operation of the proposed equipment will not adversely impact air quality and that the project will comply with all appropriate provisions of Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297, F.A.C. The Permitting Authority will issue a final permit in accordance with the conditions of the draft permit unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, F.S. or unless public comment received in accordance with this notice results in a different decision or a significant change of terms or conditions.

Public Notice: Pursuant to Section 403.815, F.S. and Rules 62-110.106 and 62-210.350, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Public Notice of Intent to Issue Air Permit (Public Notice). The Public Notice shall be published one time only as soon as possible in the legal advertisement section of a newspaper of general circulation in the area affected by this project. The newspaper used must meet the requirements of Sections 50.011 and 50.031, F.S. in the county where the activity is to take place. If you are uncertain that a newspaper meets these requirements, please contact the Permitting Authority at above address or phone number. Pursuant to Rule 62-110.106(5) and (9), F.A.C., the applicant shall provide

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

proof of publication to the Permitting Authority at the above address within 7 days of publication. Failure to publish the notice and provide proof of publication may result in the denial of the permit pursuant to Rule 62-110.106(11), F.A.C.

Comments: The Permitting Authority will accept written comments concerning the draft permit for a period of 14 days from the date of publication of the Public Notice. Written comments must be received by the Permitting Authority by close of business (5:00 p.m.) on or before the end of the 14-day period. If written comments received result in a significant change to the draft permit, the Permitting Authority shall revise the draft permit and require, if applicable, another Public Notice. All comments filed will be made available for public inspection.

Petitions: A person whose substantial interests are affected by the proposed permitting decision may petition for an administrative hearing in accordance with Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed with (received by) the Department's Agency Clerk in the Office of General Counsel of the Department of Environmental Protection, 3900 Commonwealth Boulevard, Mail Station #35, Tallahassee, Florida 32399-3000. Petitions filed by the applicant or any of the parties listed below must be filed within 14 days of receipt of this Written Notice of Intent to Issue Air Permit. Petitions filed by any persons other than those entitled to written notice under Section 120.60(3), F.S., must be filed within 14 days of publication of the attached Public Notice or within 14 days of receipt of this Written Notice of Intent to Issue Air Permit, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Permitting Authority for notice of agency action may file a petition within 14 days of receipt of that notice, regardless of the date of publication. A petitioner shall mail a copy of the petition to the applicant at the address indicated above, at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the approval of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Permitting Authority's action is based must contain the following information: (a) The name and address of each agency affected and each agency's file or identification number, if known; (b) The name, address, and telephone number of the petitioner; the name, address and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination; (c) A statement of when and how each petitioner received notice of the agency action or proposed decision; (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate; (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action; (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action including an explanation of how the alleged facts relate to the specific rules or statutes; and, (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wishes the agency to take with respect to the agency's proposed action. A petition that does not dispute the material facts upon which the Permitting Authority's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Permitting Authority's final action may be different from the position taken by it in this Written Notice of Intent to Issue Air Permit. Persons whose substantial interests will be affected by any such final decision of the Permitting Authority on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

Mediation: Mediation is not available in this proceeding.

WRITTEN NOTICE OF INTENT TO ISSUE AIR PERMIT

Executed in Tallahassee, Florida.

Jeffery F. Koerner, Program Administrator
Office of Permitting and Compliance
Division of Air Resource Management

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Written Notice of Intent to Issue Air Permit package (including the Written Notice of Intent to Issue Air Permit, the Public Notice of Intent to Issue Air Permit, the Technical Evaluation and Preliminary Determination and the Draft Permit with Appendices) was sent by electronic mail, or a link to these documents made available electronically on a publicly accessible server, with received receipt requested before the close of business on the date indicated below to the following persons.

Robby Odom, Plant Manager, PEF: robby.odom@PGNmail.com
Scott Osbourn, P.E., Golder Associates, Inc: sosbourn@golder.com
Robert Wong, Administrator, DEP SWD: robert.wong@dep.state.fl.us
Anne Harvey, Earth Justice: aharvey@earthjustice.org
Heather Ceron, US EPA Region 4: ceron.heather@epa.gov
Barbara Friday, DEP OPC: barbara.friday@dep.state.fl.us
Lynn Scearce, DEP OPC: lynn.scearce@dep.state.fl.us

Clerk Stamp

FILING AND ACKNOWLEDGMENT FILED, on this date, pursuant to Section 120.52(7), Florida Statutes, with the designated agency clerk, receipt of which is hereby acknowledged.



Florida Department of Environmental Protection

Bob Martinez Center
2600 Blair Stone Road
Tallahassee, Florida 32399-2400

Rick Scott
Governor

Jennifer Carroll
Lt. Governor

Herschel T. Vinyard Jr.
Secretary

PERMITTEE

Florida Power Corporation
d/b/a Progress Energy Florida, Inc.
299 First Avenue, North
St. Petersburg, Florida 33701

Air Permit No. 0170004-036-AC
Crystal River Power Plant Units 1 and 2
Standard Industrial Classification Code No. 4911
Expiration Date: December 31, 2018

Authorized Representative:
Robby Odom, Plant Manager

Sulfur Dioxide Emission Standards/Controls
Citrus County

PROJECT

This is the final air construction permit, which establishes an additional sulfur dioxide (SO₂) emission standard for Units 1 and 2, authorizes installation of dry flue gas desulfurization (FGD) systems and authorizes physical changes to the electrostatic precipitators and plant components or installation of baghouses to facilitate installation of the dry FGD systems. The proposed work will be conducted at the existing Crystal River Power Plant, located in Citrus County at 15760 West Power Line Street in Crystal River, Florida. The UTM coordinates are Zone 17, 334.3 km East and 3204.5 km North.

This final permit is organized into the following sections: Section 1 (General Information); Section 2 (Administrative Requirements); Section 3 (Emissions Unit Specific Conditions); Section 4 (Appendices). Because of the technical nature of the project, the permit contains numerous acronyms and abbreviations, which are defined in Appendix A of Section 4 of this permit.

STATEMENT OF BASIS

This air pollution construction permit is issued under the provisions of: Chapter 403 of the Florida Statutes (F.S.) and Chapters 62-4, 62-204, 62-210, 62-212, 62-296 and 62-297 of the Florida Administrative Code (F.A.C.). The permittee is authorized to conduct the proposed work in accordance with the conditions of this permit. This project is subject to the general preconstruction review requirements in Rule 62-212.300, F.A.C. and is not subject to the preconstruction review requirements for major stationary sources in Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

Upon issuance of this final permit, any party to this order has the right to seek judicial review of it under Section 120.68 of the Florida Statutes by filing a notice of appeal under Rule 9.110 of the Florida Rules of Appellate Procedure with the clerk of the Department of Environmental Protection in the Office of General Counsel (Mail Station #35, 3900 Commonwealth Boulevard, Tallahassee, Florida, 32399-3000) and by filing a copy of the notice of appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The notice must be filed within 30 days after this order is filed with the clerk of the Department.

Executed in Tallahassee, Florida

(DRAFT)

Jeffery F. Koerner, Program Administrator
Office of Permitting and Compliance
Division of Air Resource Management

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this Final Air Permit package (including the Final Determination and Final Permit with Appendices) was sent by electronic mail, or a link to these documents made available electronically on a publicly accessible server, with received receipt requested before the close of business on the date indicated below to the following persons.

Robby Odom, Plant Manager PEF: robby.odom@pgnmail.com
Scott Osbourn, P.E., Golder Associates, Inc: sosbourn@golder.com
Robert Wong, Air Program Administrator, DEP SWD: robert.wong@dep.state.fl.us
Anne Harvey, Earth Justice: aharvey@earthjustice.org
Heather Ceron, US EPA Region 4: ceron.heather@epa.gov
Barbara Friday, DEP OPC: barbara.friday@dep.state.fl.us
Lynn Scarce, DEP OPC: lynn.scarce@dep.state.fl.us

Clerk Stamp

**FILING AND ACKNOWLEDGMENT
FILED**, on this date, pursuant to Section
120.52(7), Florida Statutes, with the designated
agency clerk, receipt of which is hereby
acknowledged.

(DRAFT)

SECTION 1. GENERAL INFORMATION

FACILITY DESCRIPTION

The existing facility consists of the following emissions units (E.U.).

| E.U. No. | Brief Description |
|--|--|
| <i>Regulated Emission Units</i> | |
| 001 | Fossil Fuel Steam Generator, Unit 1 |
| 002 | Fossil Fuel Steam Generator, Unit 2 |
| 004 | Fossil Fuel Steam Generator, Unit 4 |
| 003 | Fossil Fuel Steam Generator, Unit 5 |
| 006 | Fly ash transfer (Source 1) from FFSG Unit 1 |
| 008 | Fly ash storage silo (Source 3) for FFSG Units 1 and 2 |
| 009 | Fly ash transfer (Source 4) from FFSG Unit 2 |
| 010 | Fly ash transfer (Source 5) from FFSG Unit 2 |
| 014 | Bottom ash storage silo for FFSG Units 1 and 2 |
| 012 | Relocatable diesel generators |
| 013 | Cooling towers for FFSG Units 1, 2, and 3 |
| 015 | Cooling towers for FFSG Units 4 and 5 |
| 016 | Material handling activities for coal-fired steam units |
| 020 | Portable Cooling Towers for Fossil Fuel Steam Generators Units 1 and 2 |
| 028 | 3500 kW diesel generator associated with Unit 3 |
| 029 | Diesel fire pump, south yard |
| 030 | Emergency generator (meteorological weather station) |
| <i>Unregulated Emissions Units and/or Activities</i> | |
| 017 | Fuel and lube oil tanks and vents |
| 018 | Sewage treatment, water treatment, lime storage |
| 019 | Two 3,500 kW diesel generators associated with Unit 3 |

PROPOSED PROJECT

This project addresses coal-fired Units 1 and 2. The project supplements permit No. 0170004-017-AC (issued February 26, 2009) by providing additional options for complying with Florida's Regional Haze State Implementation Plan. The three emission reduction scenarios authorized by this project include:

- A) Discontinuation of operation of Units 1 and 2 as coal-fired units by December 31, 2020;
- B) Installation and operation of a Dry Flue Gas Desulfurization (DFGD) system before January 1, 2018, or within 5 years of EPA's final approval of Florida's final Regional Haze SIP, whichever is later, and establishment of emissions standards of 95 percent (%) sulfur dioxide SO₂ removal efficiency or 0.15 pounds per million Btu heat input (lb/MMBtu); or
- C) Agree to a permit limit for SO₂ applicable on January 1, 2018, or within 5 years of EPA's final approval of Florida's final Regional Haze State Implementation Plan, whichever is later, at a level sufficient to exempt out of Best Available Retrofit Technology (BART) requirements.

FACILITY REGULATORY CLASSIFICATION

- The facility is a major source of hazardous air pollutants (HAP).
- The facility operates units subject to the acid rain provisions of the Clean Air Act (CAA).
- The facility is a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400(PSD), F.A.C.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

1. Permitting Authority: The permitting authority for this project is the Office of Permitting and Compliance in the Division of Air Resource Management of the Department of Environmental Protection (Department). The Office of Permitting and Compliance mailing address is 2600 Blair Stone Road (MS #5505), Tallahassee, Florida 32399-2400.
2. Compliance Authority: All documents related to compliance activities such as reports, tests, and notifications shall be submitted to the DEP Southwest District Office at: 13051 N. Telecom Parkway Temple Terrace, Florida 33637-0926.
3. Appendices: The following Appendices are attached as a part of this permit: Appendix A (Citation Formats and Glossary of Common Terms); Appendix B (General Conditions); and Appendix C (Common Conditions).
4. Applicable Regulations, Forms and Application Procedures: Unless otherwise specified in this permit, the construction and operation of the subject emissions units shall be in accordance with the capacities and specifications stated in the application. The facility is subject to all applicable provisions of: Chapter 403, F.S.; and Chapters 62-4, 62-204, 62-210, 62-212, 62-213, 62-296 and 62-297, F.A.C. Issuance of this permit does not relieve the permittee from compliance with any applicable federal, state, or local permitting or regulations.
5. New or Additional Conditions: For good cause shown and after notice and an administrative hearing, if requested, the Department may require the permittee to conform to new or additional conditions. The Department shall allow the permittee a reasonable time to conform to the new or additional conditions, and on application of the permittee, the Department may grant additional time. [Rule 62-4.080, F.A.C.]
6. Modifications: No new emissions unit shall be constructed and no existing emissions unit shall be modified without obtaining an air construction permit from the Department. Such permit shall be obtained prior to beginning construction or modification. [Rules 62-210.300(1) & 62-212.300(1)(a), F.A.C.]
7. New Permit Specific Conditions: The applicant has proposed three emission reduction scenarios to satisfy the Florida Regional Haze Implementation Plan for the eligible emissions units at the Crystal River Power Plant. The applicant shall make a decision regarding the scenario that will be pursued and shall notify the Department of this decision no later than January 1, 2015, at which time the scenarios (and corresponding permit conditions) which were not selected will become obsolete. The applicant shall comply with one of the following three scenarios:
 - a. Discontinuation of operation of Crystal River Units 1 and 2 as coal-fired units by December 31, 2020. Refer to Section 3, Scenario A. This scenario is currently in effect pursuant to Permit No. 0170004-AV with certain contingencies related to other projects planned by the applicant.
 - b. Install and operate a sulfur dioxide (SO₂) Dry Flue Gas Desulfurization (DFGD) system before January 1, 2018, or within 5 years of the effective date of EPA's approval of this specific requirement in the Florida Regional Haze State Implementation Plan, whichever is later, and establish additional emissions standards of 95 percent sulfur dioxide SO₂ removal efficiency or 0.15 pounds per million Btu heat input (lb/MMBtu), whichever is less stringent, for Crystal River Units 1 and 2 as presumptive Best Available Retrofit Technology (BART). Refer to Section 3, Scenario B.
 - c. Agree to and demonstrate compliance with a permit limit for SO₂ by January 1, 2018, or within 5 years of the effective date of EPA's approval of this specific requirement in the Florida Regional Haze State Implementation Plan, whichever is later, at a level sufficient to exempt out of BART. Refer to Section 3, Scenario C.

SECTION 2. ADMINISTRATIVE REQUIREMENTS

[Application No. 0170004-036-AC; Rule 62-296.340(5)(c), F.A.C.; and, Rules 62-4.070(1)&(3), and 62-213.440(1), F.A.C.]

8. Application for Title V Permit: This permit establishes optional emissions reduction scenarios as detailed in Section 3. A Title V air operation permit is required for regular operation of the permitted emissions unit. If Scenario A is chosen, an application to revise the facility's Title V air operation permit shall be submitted by January 1, 2015. If Scenario B is chosen, an application to incorporate the conditions of Scenario B of this permit into the facility's Title V air operation permit shall be submitted within 180 days after completing the physical changes authorized by this permit, but no later than 90 days prior to the expiration date shown above. If Scenario C is chosen, a Title V revision application shall be submitted as specified in the air construction permit that will be issued pursuant to this option. To apply for a Title V air operation permit, the applicant shall submit the appropriate application form and such additional information as the Department may by law require. The application shall be submitted to the appropriate Permitting Authority with copies to the Compliance Authority. [Rules 62-4.030, 62-4.050, 62-4.220 and Chapter 62-213, F.A.C.]

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SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

Emission Units 1 and 2

This section of the permit addresses the following emissions units.

| ID No. | Emission Unit Description |
|---------------|--|
| 001 | Fossil Fuel Steam Generator, Unit 1 - 3,750 MMBtu/hour |
| 002 | Fossil Fuel Steam Generator, Unit 2 - 4,795 MMBtu/hour |

SCENARIO A: CEASE OPERATION OF UNITS 1 & 2 AS COAL-FIRED UNITS BY 12/31/2020.

A.1. Compliance With Permit No. 0170004-017-AC. If the chosen emission reduction scenario is to cease operating Units 1 and 2 as coal fired units by December 31, 2020, then PEF shall comply with the existing emissions and operation limitations contain in Permit No. 0170004-017-AC, except that Condition 3.C.16. is changed as follows (~~strike through~~ indicates deleted text, double underline indicates added text):

Shut Down of Units 1 and 2. Units 1 and 2 shall cease to be operated as coal-fired units by December 31, 2020. ~~This date assumes timely licensing, construction and commencement of commercial operation of PEF's proposed new nuclear units (Levy County Units 1 and 2). The shutdown (or repowering) of Units 1 and 2 coal fired units is contingent upon completion of the first fuel cycle for Levy County Unit 2. PEF shall timely advise the Department of any developments that would delay the shutdown (or repowering) of Units 1 and 2 beyond the completion of the first fuel cycle for Levy County Unit 2. [Rule 62-296.340 (BART), F.A.C. and Applicant Request]~~ [Application No. 0170004-036-AC]

SCENARIO B: INSTALL DRY FLUE GAS DESULFURIZATION (DFGD) SYSTEM.

Authorized Construction

- B.1.** Previous Permits: The conditions of this section supplement all previously issued air construction permits and regulations affecting Units 1 and 2. Relevant provisions of these permits are incorporated in the Facility Title V Operation Permit No. 0170004-025-AV.
- B.2.** Sulfur Dioxide (SO₂) Control Project: For Units 1 and 2, the permittee is authorized to install a dry flue gas desulfurization (FGD) system including vessels, pumps, metering equipment, slaking equipment, bins, silos and other equipment required to store, feed and contact lime or similar sorbent with exhaust gas. [Application 0170004-036-AC]
- B.3.** Particulate Matter (PM) Control: If the permittee actually conducts the SO₂ Control Project on Units 1 and 2, then the permittee is required to make physical or operational changes to the PM control systems to avoid significantly increasing PM emissions caused by use of the dry FGD. The changes may include but are not limited to:
 - a. Replacement or addition of wires, collection plates, transformer/rectifier sets, rappers, dust hoppers, conveyors and duct work on the existing electrostatic precipitators (ESPs);
 - b. Conversion of ESPs or portions of ESPs to baghouses;
 - c. Addition of baghouses, hoppers and conveyance equipment; and
 - d. Installation of modern micro-processor controls.[Application 0170004-036-AC]
- B.4.** Coal and Ash Handling Equipment: The permittee is authorized to make changes and improvements to the coal and ash handling equipment to facilitate the use of lower or higher sulfur coal blends and facilitate removal of dry FGD reaction products while achieving the SO₂ emission standard specified in Condition 6, below. [Application 0170004-036-AC]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

Emission Units 1 and 2

Performance Restrictions

- B.5. Emission Increases:** This permit does not authorize major modifications or increases in capacity. [Rule 62-210.200, F.A.C. (Definitions: Major Modification, Potential-to-Emit, Actual Baseline Emissions; Projected Actual Emissions and Significant Emissions Rate)]
- B.6. Sulfur Dioxide (SO₂) Emission Standard:** When combusting coal in Units 1 and 2, the owner or operator shall not cause to be discharged into the atmosphere from either unit any gases that contain SO₂ in excess of 0.15 pounds per million of heat input (lb/MMBtu) or 5 percent of the potential combustion concentration (95 percent reduction) on a 30-day rolling average basis, whichever is less stringent. Compliance with the emission standard shall be determined on a 30-day rolling average basis in accordance with the procedures contained in 40 Code of Federal Regulation (CFR), Part 60, Subpart Da. This condition shall become effective no later than January 1, 2018, or within 5 years of the effective date of EPA's approval of this specific requirement in the Florida Regional Haze State Implementation Plan, whichever is later. [Application No. 0170004-036-AC]
- {Note: This condition will apply in addition to other SO₂ requirements contained in Facility Title V Air Operation Permit 0170004-025-AV, its renewals and its revisions. Reference is made to certain procedures contained in 40 CFR 60, Subpart Da strictly for convenience. Units 1 and 2 are not affected facilities under this subpart.}*
- B.7. Particulate Matter (PM) Emissions:** No later than January 1, 2018, or within 5 years of the effective date of EPA's approval of this specific requirement in the Florida Regional Haze State Implementation Plan, whichever is later, PM emissions shall not exceed 0.015 lb/MMBtu, as determined by EPA Method 5. [Rule 62-4.070, F.A.C.; avoidance of Rule 62-212.400 (PSD), F.A.C.]
- B.8. Visible Emissions:** No later than January 1, 2018, or within 5 years of the effective date of EPA's approval of this specific requirement in the Florida Regional Haze State Implementation Plan, whichever is later, visible emissions shall not exceed 15% opacity under normal operations and 20% opacity under soot blowing and load change operations, as determined by data collected from the existing COMS. [Rule 62-4.070, F.A.C.; avoidance of Rule 62-212.400 (PSD), F.A.C.]
- B.9. SO₂ Continuous Emissions Monitoring Systems (CEMS):** The permittee shall use data collected from each of the previously installed and certified Acid Rain SO₂ CEMS to demonstrate compliance with the emissions standards specified in this permit. An additional SO₂ CEMS shall be installed prior to the new DFGD and shall be calibrated and certified to record pre-control SO₂ emissions in order to demonstrate the SO₂ removal efficiency of the DFGD. The SO₂ CEMS shall be operated and data recorded during all periods of operation including periods of startup, shutdown, malfunction, or emergency conditions, except for continuous monitoring system breakdowns, repairs, calibration checks, and zero and span adjustments. [40 CFR 60 Appendix A; 40 CFR 75]

Testing Requirements

- B.10. Initial Compliance Tests.** Following installation of the control devices authorized by Conditions B.2. and B.3., compliance tests shall be conducted for particulate matter and visible emissions to demonstrate compliance with the emissions standards specified in Conditions B.7. and B.8. Compliance with the PM standard shall be demonstrated on the average of the 3 required 1-hour test runs. [Rule 62-297.310, F.A.C.]

SECTION 3. EMISSIONS UNIT SPECIFIC CONDITIONS

Emission Units 1 and 2

Design Details and Projected Actual Emission Update

- B.11. Preliminary Design:** The permittee shall as soon as practicable and no later than January 1, 2015, submit to the Department updated project details including the selection of implementation strategies including but not limited to: the capacity and location of the DFGD systems and associated silos; approximate fuel sulfur specifications; contemplated improvements to the electrostatic precipitators, reorientation of components; and contemplated modifications and improvements to coal, ash and any new coal combustion products handling systems. [Rule 62-4.070, F.A.C. (Reasonable Assurance)]
- B.12. Estimates of Projected Actual Emissions:** The permittee shall as soon as practicable and no later than January 1, 2015, submit to the Department updated estimates of baseline actual emissions and future actual emissions of SO₂, Nitrogen oxides (NO_x), carbon monoxide (CO), PM, PM smaller than 10 microns (PM₁₀) and (PM_{2.5}) in accordance with the procedures specified in Rule 62-210.200, F.A.C. [Rules 62-4.070, F.A.C. (Reasonable Assurance) and Rule 62-210.200, F.A.C. (Definitions: Potential-to-Emit, Actual Baseline Emissions; Projected Actual Emissions and Significant Emissions Rate)]

SCENARIO C: ESTABLISH A PERMIT LIMIT TO EXEMPT OUT OF BART.

- C.1. Submission of Permit Application:** If PEF chooses to establish permit conditions sufficient to exempt out of BART, an application for an air construction permit containing a complete 5-factor BART determination clearly indicating control strategies and necessary emissions limits shall be submitted to the Department no later than January 1, 2015. This application shall be submitted along with the notification required in Condition 2.7, above, indicating that exempting out of BART is the chosen emission reduction scenario. [Rules 62-4.070 & 62-296.340, F.A.C.; and, Application No. 0170004-036-AC]
- C.2. Physical Changes Authorized by Exemption Permit:** The authority to make any necessary physical changes pursuant to emissions reduction Scenario C shall be effective upon the effective date of the air construction permit issued according to that chosen scenario. The emissions limitations established by that permit shall become effective as soon as practicable following completion of the physical changes authorized by that permit, but no later than 5 years after the effective date of EPA's approval of these specific requirements in the Florida Regional Haze State Implementation Plan. [Rule 62-4.070, F.A.C. and Application No. 0170004-036-AC]
- C.3. Compliance With Chosen BART Exemption Conditions:** PEF shall complete all necessary physical changes and shall comply with the proposed BART exemption emissions limits no later than January 1, 2018, or within 5 years of EPA's final approval of Florida's final Regional Haze SIP, whichever is later. [Rules 62-4.070 & 62-296.340, F.A.C.; and, Application No. 0170004-036-AC]



**TECHNICAL EVALUATION
&
PRELIMINARY DETERMINATION**

APPLICANT

Florida Power Corporation d/b/a
Progress Energy Florida, Inc.
299 First Avenue, North
St. Petersburg, Florida 33701

Crystal River Energy Complex
Facility ID No. 0170004

PROJECT

Project No. 0170004-036-AC
Sulfur Dioxide Emission Standards/Controls for Boilers 1 and 2

COUNTY

Citrus County, Florida

PERMITTING AUTHORITY

Florida Department of Environmental Protection
Division of Air Resource Management
Office of Permitting and Compliance
2600 Blair Stone Road, MS#5505
Tallahassee, Florida 32399-2400

July 31, 2012

1. GENERAL PROJECT INFORMATION

1.1. Air Pollution Regulations

Projects at stationary sources with the potential to emit air pollution are subject to the applicable environmental laws specified in Section 403 of the Florida Statutes (F.S.). The statutes authorize the Department of Environmental Protection (Department) to establish regulations regarding air quality as part of the Florida Administrative Code (F.A.C.), which includes the following applicable chapters: 62-4 (Permits); 62-204 (Air Pollution Control – General Provisions); 62-210 (Stationary Sources – General Requirements); 62-212 (Stationary Sources – Preconstruction Review); 62-213 (Operation Permits for Major Sources of Air Pollution); 62-296 (Stationary Sources - Emission Standards); and 62-297 (Stationary Sources – Emissions Monitoring). Specifically, air construction permits are required pursuant to Chapters 62-4, 62-210 and 62-212, F.A.C.

In addition, the U. S. Environmental Protection Agency (EPA) establishes air quality regulations in Title 40 of the Code of Federal Regulations (CFR). Part 60 specifies New Source Performance Standards (NSPS) for numerous industrial categories. Part 61 specifies National Emission Standards for Hazardous Air Pollutants (NESHAP) based on specific pollutants. Part 63 specifies NESHAP based on the Maximum Achievable Control Technology (MACT) for numerous industrial categories. The Department adopts these federal regulations in Rule 62-204.800, F.A.C.

1.2. Facility Description and Location

The Progress Energy Crystal River Energy Complex is an existing power plant, which is categorized under Standard Industrial Classification Code No. 4911. Refer to Figures 1 and 2. The existing Crystal River Power Plant is located in Citrus County at 15760 West Power Line Street in Crystal River, Florida.

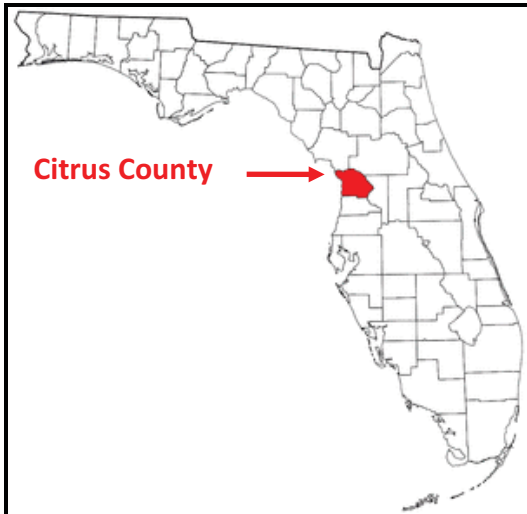


Figure 1. Citrus County, Florida

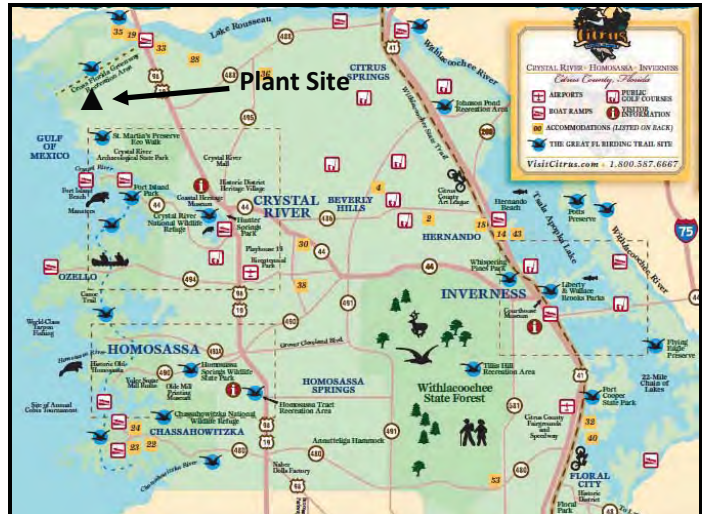


Figure 2. Location of Crystal River Energy Complex

The UTM coordinates of the existing facility are Zone 17, 334.3 km East and 3204.5 km North. This site is in an area that is in attainment (or designated as unclassifiable) for all air pollutants subject to Ambient Air Quality Standards (AAQS).

Table 1 is a summary of Emissions Units (E.U.) from the Facility Title V Air Operation Permit 0170004-036-AV. Units 1 and 2 are the subject of the present permit application. Units 1 and 2 are tangentially-fired, dry bottom pulverized coal-fueled boilers with gross capacity ratings of 440.5 and 523.8 megawatts (MW), respectively. The units commenced commercial operation in 1966 and 1969, respectively.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Table 1. Summary of Emissions Units

| E.U. No. | Brief Description |
|--|---|
| <i>Regulated Emission Units</i> | |
| 001 | Fossil Fuel Steam Generator, Unit 1 |
| 002 | Fossil Fuel Steam Generator, Unit 2 |
| 004 | Fossil Fuel Steam Generator, Unit 4 |
| 003 | Fossil Fuel Steam Generator, Unit 5 |
| 006 | Fly ash transfer (Source 1) from Unit 1 |
| 008 | Fly ash storage silo (Source 3) for Units 1 and 2 |
| 009 | Fly ash transfer (Source 4) from Unit 2 |
| 010 | Fly ash transfer (Source 5) from Unit 2 |
| 014 | Bottom ash storage silo for Units 1 and 2 |
| 012 | Relocatable diesel generators |
| 013 | Cooling towers for Units 1, 2, and 3 |
| 015 | Cooling towers for Units 4 and 5 |
| 016 | Material handling activities for coal-fired steam units |
| 020 | Portable Cooling Towers for Units 1 and 2 |
| 028 | 3500 kW diesel generator associated with Unit 3 |
| 023 | Limestone and Gypsum Material Handling Activities |
| 029 | Diesel fire pump, south yard |
| 030 | Emergency generator (meteorological weather station) |
| <i>Unregulated Emissions Units and/or Activities</i> | |
| 017 | Fuel and lube oil tanks and vents |
| 018 | Sewage treatment, water treatment, lime storage |
| 019 | Two 3500 kW diesel generators associated with Unit 3 |

Unit 1 is equipped with a 499 foot stack and Unit 2 has a 502 foot stack. Each has an electrostatic precipitator (ESP) to control particulate matter (PM) and Low NO_x burners to control nitrogen oxides (NO_x). Each is equipped with Continuous emissions monitoring systems (CEMS) to measure and record NO_x and sulfur dioxide (SO₂) emissions and a continuous opacity monitoring system (COMS) to measure and record the opacity of the exhaust gas.

1.3. Facility Regulatory Categories

- The facility is a major source of hazardous air pollutants (HAP).
- The facility operates units subject to the acid rain provisions of the Clean Air Act.
- The facility is a Title V major source of air pollution in accordance with Chapter 62-213, F.A.C.
- The facility is a major stationary source in accordance with Rule 62-212.400, F.A.C. for the Prevention of Significant Deterioration (PSD) of Air Quality.

1.4. Application

On June 15, 2012, Progress Energy Florida submitted an air construction permit application for Crystal River Power Plant Units 1 and 2. [Link to Application](#) The application includes the three options listed below.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

1. Commit to cease operation of Crystal River Units 1 and 2 as coal-fired units by December 31, 2020.
2. Install and operate a sulfur dioxide (SO₂) Flue Gas Desulfurization (FGD) system before January 1, 2018, or within 5 years of EPA's final approval of Florida's final Regional Haze SIP, whichever is later, and establish emissions standards of 95 percent sulfur dioxide SO₂ removal efficiency or 0.15 pounds per million Btu heat input (lb/MMBtu) from Crystal River Units 1 and 2 as presumptive Best Available Retrofit Technology (BART).
3. Agree to a permit limit for SO₂ by January 1, 2018 or within 5 years of EPA's final approval of Florida's final Regional Haze State Implementation Plan, whichever is later, at a level sufficient to exempt out of BART.

Details on the SO₂ project are available in a separate document submitted to the Department on May 30, 2012 as the Best Available Retrofit Technology (BART) proposal for Units 1 and 2.

1.5. Project Description

If Crystal River Units 1 and 2 continue to operate as coal-fueled units beyond 2020, the company will install FGD technology. The supplementary information included analyses of wet FGD and dry FGD options. However, the document indicated a preference by the applicant towards the latter due to lower impacts related to water use, volume of coal combustion products (calcium sulfite sludge or gypsum product), and lower capital costs (e.g. less expensive carbon steel).

Fabric filters are often used in conjunction with dry FGD technologies, especially when high efficiency SO₂ removal is required. The reason is that the filter cake (e.g. lime) that builds up in the bags provides additional contact between exhaust gases and reagent compared with an ESP. The Department infers from the information reviewed to-date that a dry FGD technology, including fabric filters is the most likely scenario for the second option listed above.

Refer to Figures 3 and 4. There are various types of dry and semi-dry FGD designs. The discussion below features one of dozens of possible arrangements possible for dry FGD installations at coal-fueled power plants. It is shown here for convenience to explain principles of dry scrubbing. It is not a design proposed by the company or an arrangement specifically recommended by the Department.

The arrangement in Figure 3 was installed at the small AES Greenidge Unit 4 in New York. It features a hydrated lime [Ca(OH)₂] based scrubber and a fabric filter (baghouse) associated with the scrubber to optimize use of the hydrated lime sorbent. The circulating fluidized bed (CFB) scrubber (called TurboSorp[®]) shown in Figure 4 was used within AES Greenidge project.

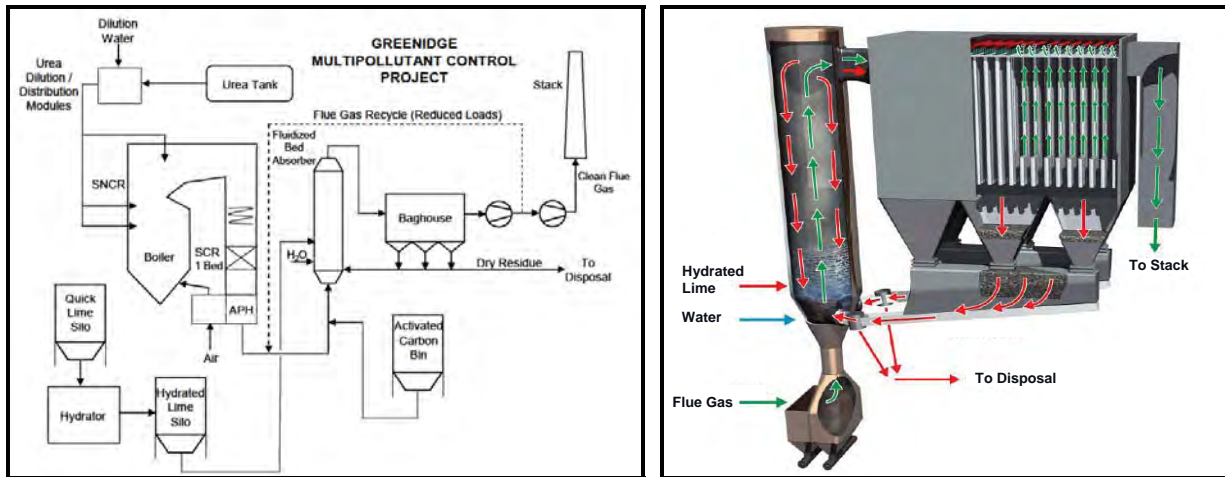


Figure 3. Control System at AES Greenidge Figure 4. Circulating Fluidized Bed Dry Scrubber

To achieve 95% efficiency with a dry scrubber will require a baghouse. To achieve 0.15 lb SO₂/MMBtu without a baghouse will likely require use of lower sulfur coal and require substantial upgrades to the existing ESPs.

1.6. Processing Schedule

May 30, 2012 Received control options document in advance of application.

June 15, 2012 Received application.

July 31, 2012 Issued Draft Permit Package.

2. PSD APPLICABILITY FOR DRY SCRUBBING OPTION

2.1. General PSD Applicability

The Department regulates major stationary sources in accordance with Florida's PSD program pursuant to Rule 62-212.400(PSD), F.A.C. PSD preconstruction review is required in areas that are currently in attainment with the state and federal ambient air quality standards (AAQS) or areas designated as "unclassifiable" for these regulated pollutants.

Commonly addressed PSD pollutants in the power industry include: CO, SO₂, NO_x, PM, PM smaller than 10 micrometers (µm) (PM₁₀), PM smaller than 2.5 µm (PM_{2.5}), volatile organic compounds (VOC), sulfuric acid mist (SAM), lead (Pb), fluorides (F), and mercury (Hg).

Additional PSD pollutants that are more common to certain other industries include: hydrogen sulfide (H₂S), TRS including H₂S, reduced sulfur compounds (RSC) including H₂S, municipal waste combustor (MWC) organics measured as total tetra- through octa-chlorinated dibenzo-p-dioxins and dibenzofurans (dioxin/furan), MWC metals measured as PM; MWC acid gases measured as SO₂ and HCl, and municipal solid waste (MSW) landfill emissions as non-methane organic compounds (NMOC).

As defined in Rule 62-210.200(Definitions), F.A.C., a stationary source is a "major stationary source" (major PSD source) if it emits or has the potential to emit (PTE):

- 250 tons per year (tons/year) or more of any PSD pollutant; or
- 100 tons/year or more of any PSD pollutant and the facility belongs to one of the 28 listed PSD major facility categories.

The list given in the citation includes the category of "fossil fuel-fired steam electric plants of more than 250 million British thermal units per hour heat input". The given category applies to the Crystal River Energy Complex. The Crystal River Energy Complex is a major stationary source based on actual emissions of and potential to emit 100 tons/year or more of several individual PSD pollutants.

For major stationary sources such as the Crystal River Energy Complex, PSD applicability for modification projects is based on thresholds known as the significant emission rates (SER) as defined in Rule 62-210.200 (Definitions), F.A.C. Any "net emissions increase" as defined in Rule 62-210.200 (Definitions), F.A.C. of a PSD pollutant from the project that equals or exceeds the respective SER is considered "significant".

SER also means any emissions rate or any net emissions increase of a PSD pollutant associated with a major stationary source or major modification which would construct within 10 km of a Class I area and have an impact on such area equal to or greater than 1 gram per cubic meter, 24-hour average. Although a facility may be "major" (i.e. emits or has the potential to emit 100 or 250 tons/year as applicable) for only one PSD pollutant, a project must include Best Available Control Technology (BACT) for any PSD pollutant increase in that equals or exceeds the corresponding significant emission rate given in Table 1.

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Table 1. List of Significant Emission Rates by PSD-Pollutant Relevant to the Facility ²

| Pollutant | SER (tons/year) | Pollutant | SER (tons/year) |
|---|------------------------|---|------------------------|
| PM | 25 | PM ₁₀ | 15 |
| PM _{2.5} | 10 | PM _{2.5} (NO _x) ¹ | 40 |
| PM _{2.5} (SO ₂) ¹ | 40 | CO | 100 |
| SO ₂ | | NO _x | 40 |
| Ozone (NO _x) ¹ | 40 | Ozone (VOC) ¹ | 40 |
| Sulfuric acid mist (SAM) | 7 | fluoride | 3 |
| mercury | 0.1 | lead | 0.6 |

1. PM_{2.5} is also regulated through precursors (NO_x and SO₂); Ozone (O₃) is regulated through precursors (VOC and NO_x).
 2. There is federal SER of 75,000 tons/year for Greenhouse Gases (GHG) as carbon dioxide equivalent (CO₂e) that has not been incorporated into Department rules.

According to 40 CFR 52.21, six greenhouse gases (GHG), are also subject to regulation at new stationary sources. According to 40 CFR 52.21, six greenhouse gases (GHG), are also subject to regulation at new stationary sources that will emit or have the potential to emit 100,000 tons/year (SER equal to 75,000 tons/year) expressed as the carbon dioxide equivalent emissions (CO₂e). This requirement has not been incorporated into Department rules but is a separate requirement of the EPA.

2.2. PSD Applicability for Project

The project is located in Citrus County, which is in an area that is currently in attainment with the state and federal AAQS or otherwise designated as unclassifiable.

Methodology for Calculations of Baseline Actual Emissions and Projected Actual Emissions

To determine whether the project causes net emissions increases equal to or greater than the respective SER (triggering PSD) requires a comparison of recent “baseline actual emissions” with future “projected actual emissions”. According to Rule 62-210.200(Definitions), F.A.C., for any existing electric utility steam generating unit:

“Baseline actual emissions” means the average rate, in tons per year, at which the unit actually emitted the pollutant during any consecutive 24-month period selected by the owner or operator within the 5-year period immediately preceding the date a complete permit application is received by the Department. The Department shall allow the use of a different time period upon a determination that it is more representative of normal source operation”.

1. The average rate shall include fugitive emissions to the extent quantifiable, and emissions associated with startups and shutdowns.
2. The average rate shall be adjusted downward to exclude any non-compliant emissions that occurred while the source was operating above any emission limitation that was legally enforceable during the consecutive 24-month period.
3. For a PSD pollutant, when a project involves multiple emissions units, only one consecutive 24-month period must be used to determine the baseline actual emissions for the emissions units being changed. A different consecutive 24-month period can be used for each PSD pollutant.
4. The average rate shall not be based on any consecutive 24-month period for which there is inadequate information for determining annual emissions, in tons per year, and for adjusting this amount if required by subparagraph 2., above.

According to Rule 62-210.200(Definitions), F.A.C., for an existing unit (other than an electric steam generating unit):

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

“Projected Actual Emissions” means the maximum annual rate, in tons/year, at which an existing emissions unit is projected to emit a PSD pollutant in any one of the 5 years following the date the unit resumes regular operation after the project, or in any one of the 10 years following that date, if the project involves increasing the emissions unit’s design capacity or its potential to emit that PSD pollutant and full utilization of the unit would result in a significant emissions increase or a significant net emissions increase at the major stationary source. One year is one 12-month period. In determining the projected actual emissions, the Department:

- (a) Shall consider all relevant information, including historical operational data, the company’s own representations, the company’s expected business activity and the company’s highest projections of business activity, the company’s filings with the State or Federal regulatory authorities, and compliance plans or orders, including consent orders; and
- (b) Shall include fugitive emissions to the extent quantifiable and emissions associated with startups and shutdowns; and
- (c) Shall exclude that portion of the unit’s emissions following the project that an existing unit could have accommodated during the consecutive 24-month period used to establish the baseline actual emissions and that are also unrelated to the particular project including any increased utilization due to product demand growth; or
- (d) In lieu of using the method set out in paragraphs (a) through (c) above, may be directed by the owner or operator to use the emissions unit’s potential to emit, in tons per year.

Department’s Assessment of PSD Applicability

Figure 5 is a summary of information derived from the EPA Air Markets Website pertinent to operation of Crystal River Units 1 and 2. During 2007-2008 the combined gross generation capacity of the two units was approximately 61.5% based on the annual gross electric generation reported for these units per EPA and the gross capacity descriptions in the recent permits. In 2011, the combined gross capacity factor was only 33%.



Figure 5. Combined Units 1 and 2 NO_x, SO₂ Emissions and Gross Generation Capacity Factors

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

Average combined emissions of SO₂ and NO_x during 2007-2008 were 35,545 tons per year (tons/year) of SO₂ and 9,102 tons/year of NO_x. During 2011, SO₂ and NO_x emissions for 2011 were 21,004 and 4,966 tons/year, respectively.

During 2007-2008, the SO₂ and NO_x emissions factors were 1.5 and 0.385 pounds per million Btu per hour of heat input (lb/MMBtu/hr), respectively. During 2011, the values were 1.5 and 0.33 lb/MMBtu. The permitted SO₂ emission factor for Units 1 and 2 is 2.1 lb SO₂/MMBtu. The annual NO_x emission factor limit is 0.40 lb/MMBtu based on the Acid Rain Program (there is also an alternative limit based on company-wide averaging). Since 2006 emissions of SO₂ and NO_x from Units 1 and 2 have been reduced by approximately 50%.

Although not the subject of the present application, the emission trends at the adjacent Units 4 and 5 are relevant. Refer to Figure 6. Annual emissions and emission factors of both SO₂ and NO_x have been reduced by more than 90%. These reductions equate to 70,000 tons/year of SO₂ and NO_x combined. The reductions were achieved by installation of SCR and wet FGD scrubbers.

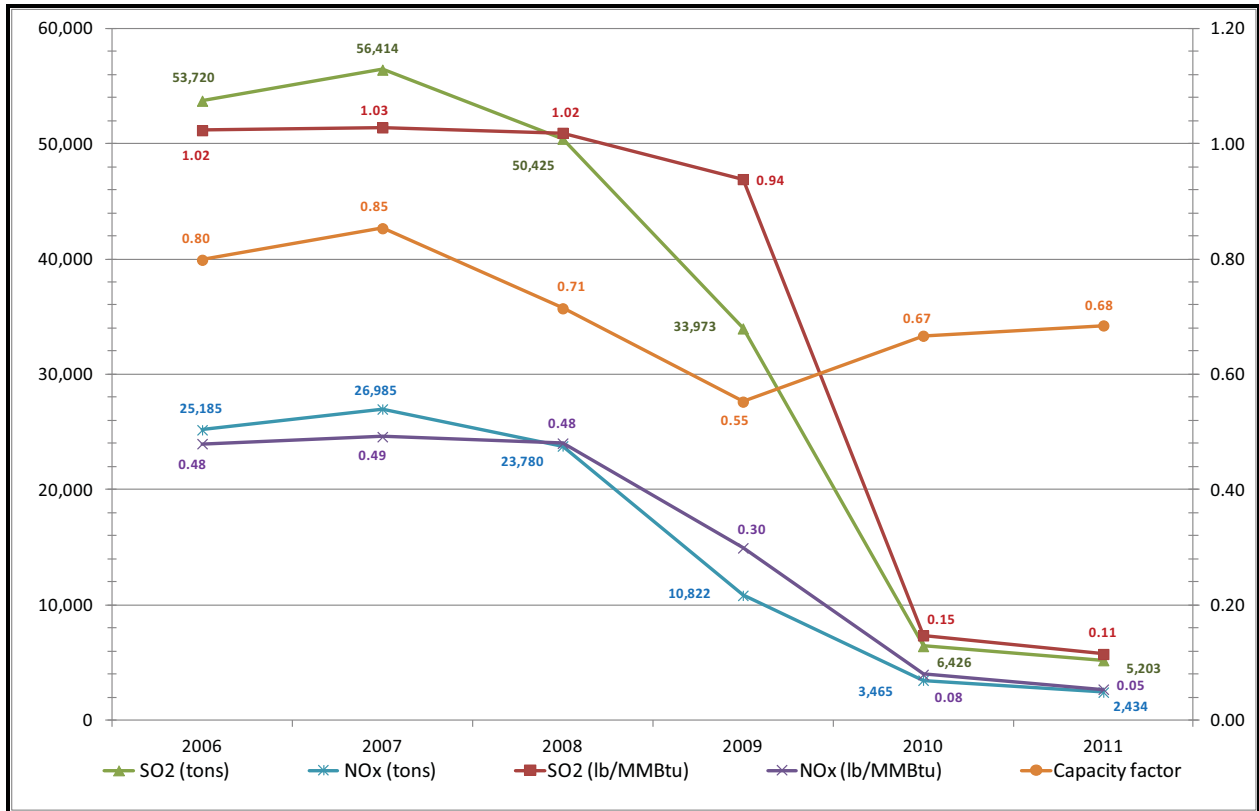


Figure 6. Combined Units 4 and 5 NO_x, SO₂ Emissions and Gross Generation Capacity Factors

Considering the four fossil fuel-fired units at the Crystal River Energy Complex, emissions of SO₂ and NO_x have been reduced by 72.5 and 79.2% since 2006. The reductions in total annual SO₂ and NO_x emissions are approximately 100,000 tons/year.

Because Progress Energy can take credit for the emission reductions to-date (by the PSD netting process) when considering future actual emissions, there is no reasonable scenario under which a future SO₂ control project *including dry scrubbers and baghouses (or ESP improvements)* on Units 1 and 2 can possibly trigger PSD.

On February 26, 2009 the Department issued a permit (0170004-017-AC) incorporating Best Available Retrofit Technology (BART) for Units 1 and 2. [Link to BART Permit](#) The permit includes PM limits for normal and soot blowing operations as follows:

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

3. Particulate Matter Emissions Standard – Steady State Operations. As determined by EPA Method 5 or 17, particulate matter emissions from Units 1 and 2 combined shall not exceed 0.04 lb/MMBtu, on a weighted average basis of the total heat input. Compliance shall be demonstrated on the average of the 3 required 1-hour test runs. [Rule 62-296.340 (BART), F.A.C.]
4. Particulate Matter Emissions Standard – Soot Blowing and Load Change Operations. As determined by EPA Method 5 or 17, particulate matter emissions from Units 1 and 2 combined shall not exceed 0.12 lb/MMBtu, on a weighted average basis of the total heat input. Compliance shall be demonstrated on the average of the 3 required 1-hour test runs. [Rule 62-296.340 (BART), F.A.C.]
5. Opacity Standard – Steady State Operations. As determined by data collected from the existing COMS or EPA 9, visible emissions during steady-state operations from: Unit 1 shall not exceed 30% opacity based on a 6-minute average except for one 6-minute average per hour not to exceed 35% opacity; Unit 2 shall not exceed 15% opacity based on a 6-minute average except for one 6-minute average per hour not to exceed 20% opacity. [Rule 62-296.340 (BART), F.A.C.]
6. Opacity Standard – Soot Blowing and Load Change Operations. As determined by data collected from the existing COMS or EPA 9, visible emissions resulting from soot-blowing and load change operations shall be permitted providing (1) best operational practices to minimize emissions are adhered to and (2) the duration of excess emissions shall be minimized. In no case shall the duration of such emissions exceed 3 hours in any 24-hour period and visible emissions from: Unit 1 shall not exceed 40% opacity based on a 6-minute average; Unit 2 shall not exceed 25% opacity based on a 6-minute average. A load change occurs when the operational capacity of a unit is in the 10 percent to 100 percent capacity range, other than startup or shutdown, which exceeds 10 percent of the unit's rated capacity and which occurs at a rate of 0.5 percent per minute or more. [Rule 62-296.340 (BART), F.A.C.]

The foregoing conditions and described limitations would not be compatible with the purpose and actual function of new dry scrubbers, if actually installed, on Units 1 and 2. With these conditions, there is not reasonable assurance that increases in PM will not occur once the substantial additional reagent and reaction product loadings are added to the existing fly ash loading.

As an example, it would be reasonable to assume Crystal River Units 1 and 2 (after installing significant air pollution control equipment) will during some years operate at an annual gross capacity factor on the order of 61.5% (like baseline years 2007-2008). To remove on the order of 30,000 tons/year and achieve 0.15 lb SO₂/MMBtu requires formation of roughly 60,000 tons/year of coal combustion products of calcium sulfate or calcium sulfite excluding hydration water present in each species.

If the existing ESPs removed 99% of the additional solids, then the remaining 1% would equal 600 tons/year of PM. At 99.9% removal, the additional PM would equal 60 tons/year.

To provide reasonable assurance that PSD is not triggered for PM/PM₁₀ under the dry FGD option, the Department will limit PM in this permit 0.015 lb PM/MMBtu at both units and limit visible emissions to 15% opacity at both units and 20% under soot blowing and load change operations.

If NO_x reductions such as by further combustion controls are implemented in the future, it is possible that PSD could be triggered for carbon monoxide (CO). Most likely the same combustion controls used for NO_x can be optimized to achieve low CO consistent with a Best Available Control Technology (BACT) determination.

3. RETIREMENT OPTION FOR UNITS 1 AND 2

In late 2008 Progress Energy announced that it planned to shut down Units 1 and 2 in conjunction with the construction of a 1,100 MW nuclear power plant in nearby Levy County. The previously mentioned permit includes the following relevant condition:

TECHNICAL EVALUATION AND PRELIMINARY DETERMINATION

16. Shutdown of Units 1 and 2. Units 1 and 2 shall cease to operate as coal-fired units by December 31, 2020. This date assumes timely licensing, construction and commencement of commercial operation of PEF's proposed new nuclear units (Levy County Units 1 and 2). The shutdown of Units 1 and 2 coal-fired units is contingent upon completion of the first fuel cycle for Levy County Unit 2. PEF shall timely advise the Department of any developments that would delay the shutdown (or repowering) of Units 1 and 2 beyond the completion of the first fuel cycle for Levy County Unit 2. [Rule 62-296.340 (BART), F.A.C. and Applicant Request].

The Department will in this permitting action supersede the contingent language under the shutdown option contemplated within the present application. The description of the option creates a possible new contingency put forward by the applicant based upon a "remaining useful life" cost-effectiveness evaluation. The procedures for the evaluation are not clear and the caveat will not be included in this condition as it is implicit in the other options.

4. ALTERNATIVE REQUEST

The applicant's third option is to agree a permit limit for SO₂ by January 1, 2018 or within 5 years of EPA's final approval of Florida's final Regional Haze State Implementation Plan, whichever is later, at a level sufficient to exempt out of BART.

This option will be included as a new condition with some minor rewording to clarify that the new permit limit will be effective on January 1, 2018 and that the agreement will occur well before that date. The Department would require additional information in the future to insure that PSD is not triggered or would require submittal of a PSD application for increases in foreseen or as-yet unforeseen collateral emission increases in PSD pollutants such as PM, PM₁₀ and CO.

5. PRELIMINARY DETERMINATION

The permit will authorize the applicant to proceed with a DFGD project and will require improvements to the existing ESPs and/or installation of baghouses in conjunction with the DFGD systems. The Department will include the requested SO₂ emission standard of 95% SO₂ removal or 0.15 lb/MMBtu, whichever is less stringent. The emissions standard shall become effective upon the effective date of EPA's approval of these specific requirements in the Florida Regional Haze State Implementation Plan. Thereafter, the compliance date for the requested emission standards shall be no later than January 1, 2018, or within 5 years of the effective date of EPA's approval of this specific requirement in the Florida Regional Haze State Implementation Plan, whichever is later.

Additional details of this analysis may be obtained by contacting the project engineer at leigh.pell@dep.state.fl.us, 850/717-9033, or the Department's Office of Permitting and Compliance, 2600 Blair Stone Road, Mail Station #5505, Tallahassee, Florida 32399-2400.



BART DETERMINATION FOR CRYSTAL RIVER POWER PLANT UNITS 1 AND 2

Progress Energy Florida, Inc.

REPORT

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Table of Contents

- 1.0 INTRODUCTION..... 1
- 2.0 DESCRIPTION OF BART-ELIGIBLE EMISSIONS UNITS..... 3
 - 2.1 EMISSION RATES..... 3
 - 2.2 MODELING METHODOLOGY..... 4
 - 2.3 BART EXEMPTION MODELING RESULTS 7
- 3.0 REQUIREMENTS FOR ANALYSIS OF BART CONTROL OPTIONS 8
- 4.0 BART ANALYSIS 17
 - 4.1 SO₂ Emissions 17
 - 4.1.1 Available Retrofit Control Technologies..... 17
 - 4.1.2 Control Technology Feasibility..... 17
 - 4.1.3 Control Effectiveness of Options..... 19
 - 4.1.4 Impacts of Control Technology Options..... 19
 - 4.1.5 Visibility Impacts..... 23
 - 4.1.6 Selection of BART 24
 - 4.2 NO_x Emissions 24

List of Tables

- Table 1A BART Modeling Data Input – Baseline Scenario
- Table 2A PM Speciation Summary for Units 1 and 2 – Baseline Scenario
- Table 3A Summary of BART Modeling Results, New IMPROVE Algorithm – Baseline Scenario
- Table 4A Visibility Rankings at PSD Class I Area – Baseline Scenario
- Table 1B BART Modeling Data Input – Compliance Coal
- Table 2B PM Speciation Summary for Units 1 and 2 – Compliance Coal
- Table 3B Summary of BART Modeling Results, New IMPROVE Algorithm – Compliance Coal
- Table 4B Visibility Rankings at PSD Class I Area – Compliance Coal
- Table 1C BART Modeling Data Input – PRB Coal
- Table 2C PM Speciation Summary for Units 1 and 2 – PRB Coal
- Table 3C Summary of BART Modeling Results, New IMPROVE Algorithm – PRB Coal
- Table 4C Visibility Rankings at PSD Class I Area – PRB Coal
- Table 1D BART Modeling Data Input – FGD Unit
- Table 2D PM Speciation Summary for Units 1 and 2 – FGD Unit
- Table 3D Summary of BART Modeling Results, New IMPROVE Algorithm – FGD Unit
- Table 4D Visibility Rankings at PSD Class I Area – FGD Unit
- Table 5 Summary of SO₂ BACT Determinations for Coal-Fired Utility Boilers
- Table 6 Cost Effectiveness of Fuel Switching for Crystal River Units 1 and 2
- Table 7 Cost Effectiveness of FGD System for Crystal River Units 1 and 2





1.0 INTRODUCTION

This submission is made in a cooperative effort to address regional haze rule (RHR) implementation issues resulting from recent regulatory developments related to EPA's Clean Air Interstate Rule (CAIR) and its successor, the Cross-State Air Pollution Rule (CSAPR). CSAPR is currently stayed, and CAIR remains in effect, pending judicial review of CSAPR. Depending on the court's decision on CSAPR, Progress may revisit, revise, or withdraw this proposal.

Progress Energy Florida, Inc. (PEF) owns and operates the Crystal River Power Plant (Facility ID No. 0170004) located on Power Line Road, West of U.S. Highway 19, Crystal River, in Citrus County, Florida. A Best Available Retrofit Technology (BART) determination analysis for particulate matter (PM) emissions from the BART-eligible emissions units (i.e., Unit No. 1 and Unit No. 2) at the Crystal River Power Plant was previously submitted to the Florida Department of Environmental Protection (FDEP) in 2007. This current report presents a revised BART determination analysis, which includes BART determinations for nitrogen oxides (NO_x) and sulfur dioxide (SO₂) emissions from the BART-eligible emissions units at the Crystal River Plant.

Pursuant to Section 403.061(35), Florida Statutes, the federal Clean Air Act (CAA), and the regional haze regulations contained in Title 40, Part 51 of the Code of Federal Regulations (40 CFR 51), Subpart P – Protection of Visibility, the Florida Department of Environmental Protection (FDEP) is required to ensure that certain sources of visibility impairing pollutants in Florida use BART to reduce the impact of their emissions on regional haze in federal Prevention of Significant Deterioration (PSD) Class I areas. Requirements for individual source BART control technology determinations and for BART exemptions are contained in Rule 62-296.340 of the Florida Administrative Code (F.A.C.), which states that a BART-eligible source may demonstrate that it is exempt from the requirement for BART determination for all pollutants by performing an individual source attribution analysis in accordance with the procedures contained in 40 CFR 51, Appendix Y. A BART-eligible source is exempt from BART determination requirements if its contribution to visibility impairment, as determined below, does not exceed 0.5 deciview (dv) above natural conditions in any Class I area [Rule 62-296.340(5)(c), F.A.C.].

The previous BART analysis for PM was based on Rule 62-296.340(5)(c), F.A.C., which states that, for electric generating units subject to the Clean Air Interstate Rule (CAIR) Program, the source attribution analysis need only consider PM emissions (including primary sulfate) for comparison with the contribution threshold. A BART permit was issued on February 25, 2009 (permit No. 0170004-017-AC), which imposed a revised allowable PM emission limit. Specifically, PM emissions from Units 1 and 2 combined are not to exceed 0.04 lb/mmBtu on a weighted average basis of the total heat input during steady state operations and 0.12 lb/mmBtu on a weighted average basis of the total heat input (not to exceed 3 hours in any 24-hour period) during steady state operations. Compliance with these revised standards is to be demonstrated no later than December 31, 2013. Further, the permit assumes that Units 1 and 2 will cease to be operated as coal-fired units by December 31, 2020. The permit requires PEF to notify the



Department of any developments that would delay the shutdown (or repowering) of Units 1 and 2 beyond this date.

On July 6, 2011, EPA finalized the Cross-State Air Pollution Rule (CSAPR), which was to replace CAIR starting in 2012. CSAPR has different emission requirements for NO_x and SO₂. Under CSAPR, the understanding under CAIR that compliance with CAIR requirements satisfied BART requirements for EGUs is no longer valid. EPA is developing a rule that would determine whether CSAPR is better than BART using a two-prong test and appropriate air quality modeling. The Federal Register notice for the final rule of CSAPR said that “EPA has not conducted any technical analysis to determine whether compliance with the Transport Rule would satisfy Reasonably Available Control Technology (RACT) requirements for EGUs in any nonattainment areas or Regional Haze BART-related requirements. For that reason, EPA is neither making determinations nor establishing any presumptions that compliance with the Transport Rule satisfies any RACT- or BART-related requirements for EGUs.”

However, on December 30, 2011, the United States Court of Appeals for the D.C. Circuit issued its ruling to stay CSAPR pending judicial review. As a result, CAIR has been put back into effect. The court set a speedy path to hear the legal arguments in the case, which were presented to the U.S. Court of Appeals in Washington, D.C. on April 13, 2012. However, a final ruling on CSAPR may not come until later this year or possibly in 2013.

It is expected that CSAPR is most likely to be reinstated in principal with the similar provisions as currently promulgated. If CSAPR is determined to be an alternative program that may substitute for source-specific BART, then the same BART modeling analyses for the Crystal River Power Plant conducted in 2007 should still be valid. However, the current version of CSAPR has different requirements for different states. For example, in Florida, it does not regulate SO₂ emissions and only has ozone-season NO_x emissions requirements. As a result, the BART exemption analysis for the Crystal River Power Plant, which was previously based on visibility impacts due to PM emissions only, needs to be re-evaluated, including PM, NO_x and SO₂ and sulfate emissions.

A description of the BART-eligible emissions units, a description of the modeling methodology, and the results of the BART exemption analysis are presented in Section 2.0. Regulatory requirements for the BART determination (control options) analysis are presented in Section 3.0. The BART determination analysis is presented in Section 4.0.

The source information and methodologies used for the BART determination are the same as those presented in the document entitled “Air Modeling Protocol to Evaluate Best Available Retrofit Technology (BART) Options for Affected Progress Energy Florida Plants”, commonly known as the “BART Protocol”. The BART Protocol was previously submitted to FDEP in January 2007.



2.0 DESCRIPTION OF BART-ELIGIBLE EMISSIONS UNITS

The BART-eligible emissions units at the Crystal River Power Plant include two fossil fuel steam generators (FFSGs), further characterized as pulverized coal dry bottom, tangentially-fired boilers, designated as Unit No. 1 and Unit No. 2. Unit No. 1 is a nominal 440.5 megawatt (MW) class (electric) steam generator while Unit No. 2 is a nominal 523.8 MW class (electric) steam generator. The units may burn bituminous coal or a bituminous coal and bituminous coal briquette mixture. Distillate fuel oil may be burned as a startup fuel.

The Crystal River Power plant is located at Universal Transverse Mercator (UTM) coordinates: 334.3 kilometers (km) East, 3,204.5 km North in UTM Zone 17. An area map showing the Plant and PSD Class I areas located within 300 km of the plant is presented in Figure 1-1 of the BART Protocol. The PSD Class I areas which were evaluated include:

- Saint Marks NWA - 174 km
- Chassahowitzka National Wilderness Area (NWA) - 21 km
- Wolf Island NWA - 293 km
- Okefenokee NWA- 178 km

The PSD Class I of the Bradwell Bay NWA is located within 300 km of the Crystal River Power Plant; however visibility impairment is not required to be addressed for this area.

The stack, operating, and PM emission data, including PM speciation, for the BART-eligible emissions units were presented in detail in the BART Protocol previously submitted to FDEP. The emissions units are regulated under Acid Rain-Phase II, Fossil Fuel Steam Generators with more than 250 million Btu per Hour Heat Input (Rule 62-296.405, F.A.C.), Best Available Retrofit Technology (BART) requirements (Rule 62-296.340, F.A.C.) and the Clean Air Interstate Rule (CAIR) requirements under 62-296.470, F.A.C.

As noted in the BART protocol and based on discussions with FDEP, building downwash effects were considered for the Crystal River Power Plant as the facility is located within 50 km of the closest PSD Class I area.

2.1 EMISSION RATES

Emission rates used in the Crystal River BART analysis were presented in the BART Protocol previously submitted to FDEP (only PM emission rates were included). This revised BART analysis includes SO₂ and NO_x emissions in addition to the PM emissions.

The EPA BART guidelines indicate that the emission rate to be used for BART modeling is the highest 24-hour actual emission rate representative of normal operations for the modeling period. Depending on



the availability of the source data, the source emissions information should be based on the following, in order of priority based on the BART common protocol:

- 24-hour maximum emissions based on continuous emission monitoring (CEM) data for the period 2001 to 2003
- Facility stack test emissions
- Potential to emit
- Allowable permit limits
- AP-42 emission factors

Table 1A presents the stack data, operating parameters, and emissions of SO₂, NO_x, and PM for the baseline (i.e., exemption) scenario. The SO₂ and NO_x emission rates are based on the maximum actual 24-hour average rate from the period 2001 to 2003 which were obtained from the CEM data.

The PM emissions rates are based on stack test data. Based on the latest regulatory guidance, PM emissions by size category are required to be considered in the appropriate species for the visibility analysis. The effect that each species has on visibility impairment is related to a parameter called the extinction coefficient. The higher the extinction coefficient, the greater the species' affect on visibility. Filterable PM is speciated into coarse (PMC), fine (PMF), and elemental carbon (EC), with default extinction efficiencies of 0.6, 1.0, and 10.0, respectively. PMC is PM with aerodynamic diameter between 10 microns and 2.5 microns. Both EC and PMF have aerodynamic diameters equal to or less than 2.5 microns. Condensable PM is comprised of inorganic PM such as sulfate (SO₄) and organic PM such as secondary organic aerosols (SOA).

The PM emissions from the BART-eligible units at the Crystal River plant were speciated into the recommended size and species categories using EPA's Compilation of Air Pollutant Emission Factors, AP-42 (fifth edition). The species categories for Crystal River Units 1 and 2 were determined from the speciation profile for a "dry bottom boiler burning pulverized coal with ESP" provided in Table 1.1-5 in AP-42. The different size categories were determined from particle size distribution for "dry bottom PC boilers with ESP" provided in Table 1.1-6 in AP-42. The PM speciation data for the exemption scenario are presented in Table 2A (also presented with the BART Protocol previously submitted to FDEP).

2.2 MODELING METHODOLOGY

The CALPUFF model, Version 5.756, also known as the "BART Version CALPUFF", was used to predict the maximum visibility impairment at each of the four PSD Class I areas located within 300 km of the Crystal River Power Plant identified above. This version of CALPUFF, together with the post-processing programs associated with the BART Version of CALPUFF (i.e., POSTUTIL, CALPOST), were also used in the current BART modeling which includes SO₂ and NO_x emissions.



The methods and assumptions used in the CALPUFF model were previously presented in the BART Protocol. The 4-km spacing Florida domain was used for the BART exemption. The refined CALMET domain used for the BART modeling analysis has been provided by FDEP. The major features used in preparing these CALMET data have also been described in Section 4.0 of the BART Protocol.

Based on FDEP guidelines, the 98th percentile, i.e., the 8th highest 24-hour average visibility impairment value in any year or the 22nd highest 24-hour average visibility impairment value over 3 years combined, whichever is higher, is compared to 0.5 dv in the source attribution analysis.

Based on the Visibility Improvement State and Tribal Association of the Southeast (VISTAS) recommendation, Visibility Method 6 was used in the BART-related modeling, which will compute extinction coefficients for hygroscopic species (modeled and background) using a monthly $f(RH)$ in lieu of calculating hourly RH factors. Monthly RH values from Table A-3 of EPA's *Guidance for Estimating Natural Visibility Conditions Under the Regional Haze Rule* (Haze Guideline) was used. Monthly $f(RH)$ factors for the Class I areas within 300 km of the Crystal River Plant are as follows:

| Month | Saint Marks NWA | Chassahowitzka NWA | Wolf Island NWA | Okefenokee NWA |
|-----------|-----------------|--------------------|-----------------|----------------|
| January | 3.7 | 3.8 | 3.4 | 3.5 |
| February | 3.4 | 3.5 | 3.1 | 3.2 |
| March | 3.4 | 3.4 | 3.0 | 3.1 |
| April | 3.4 | 3.2 | 3.0 | 3.0 |
| May | 3.5 | 3.3 | 3.3 | 3.6 |
| June | 4.0 | 3.9 | 3.7 | 3.7 |
| July | 4.1 | 3.9 | 3.7 | 3.7 |
| August | 4.4 | 4.2 | 4.1 | 4.1 |
| September | 4.2 | 4.1 | 4.0 | 4.0 |
| October | 3.8 | 3.9 | 3.7 | 3.8 |
| November | 3.7 | 3.7 | 3.5 | 3.5 |
| December | 3.8 | 3.9 | 3.5 | 3.6 |

Method 6 requires input of natural background (BK) concentrations of ammonium sulfate (BKSO₄), ammonium nitrate (BKNO₃), coarse particulates (BKPMC), organic carbon (BKOC), soil (BKSOIL), and



elemental carbon (BKEC) in micrograms per cubic meter ($\mu\text{g}/\text{m}^3$). The model then calculates the natural background light extinction and haze index based on these values.

According to FDEP recommendations, the natural background light extinction may be based on haze index (HI) values (in dv) for either the annual average or the 20-percent best visibility days provided by EPA in Appendix B of the Haze Guideline document (using the 10th percentile HI value). For this BART analysis, the annual average HI values were used to determine natural background light extinction of the Class I areas. The light extinction coefficient in inverse megameters (Mm^{-1}) is based on the concentration of the visibility impairing components and the extinction efficiency, in square meters per gram (m^2/g), for each component.

Per VISTAS and FDEP recommendations, the natural background light extinction that is equivalent to EPA-provided background HI values for each Class I area, based on the annual average, were estimated using the following background values:

- Rayleigh scattering = 10 Mm^{-1} ;
- Concentrations of BKSO_4 , BKNO_3 , BKPMC , BKEC , and $\text{BKEC} = 0.0$; and
- BKSOIL concentration, which is estimated from the extinction coefficient that corresponds to EPA's HI value (corresponding to the annual average) and then subtracting the Rayleigh scattering of 10 Mm^{-1} (assumes that the extinction efficiency of soil is $1 \text{ m}^2/\text{g}$). The BKSOIL concentration is estimated by subtracting the Rayleigh scattering of 10 Mm^{-1} from the extinction coefficient that corresponds to EPA's haze index value for the annual average light extinction coefficient, then dividing the remainder by the BKSOIL extinction efficiency of $1 \text{ m}^2/\text{g}$.

According to Appendix B of the Haze Guidance document, the annual average light extinction coefficients for each Class I area and corresponding calculated BKSOIL concentrations are as follows:

- Saint Marks NWA – 21.53 Mm^{-1} (equivalent to 7.67 dv); $11.53 \mu\text{g}/\text{m}^3$;
- Chassahowitzka NWA – 21.45 Mm^{-1} (equivalent to 7.63 dv); $11.45 \mu\text{g}/\text{m}^3$;
- Wolf Island – 21.33 Mm^{-1} (equivalent to 7.58 dv); $11.33 \mu\text{g}/\text{m}^3$; and
- Okefenokee NWA – 21.40 Mm^{-1} (equivalent to 7.61 dv); $11.40 \mu\text{g}/\text{m}^3$.

The atmospheric light extinction estimation technique using an algorithm developed by the Interagency Monitoring of Protected Visual Environments (IMPROVE) committee, which was adopted by the EPA under the 1999 Regional Haze Rule (RHR) and referred to as the "1999 IMPROVE" algorithm, was used in this revised analysis. This algorithm for estimating light extinction from particle speciation data tends to underestimate light extinction for the highest haze conditions and overestimate it for the lowest haze conditions, and does not include light extinction due to sea salt, which is important at sites near



seacoasts. As a result of these limitations, the IMPROVE Steering Committee developed the “new IMPROVE algorithm” for estimating light extinction from particulate matter component concentrations, which provides a better correspondence between measured visibility and that calculated from particulate matter component concentrations. A detailed description of the new IMPROVE algorithm and its implementation was presented in Section 3.4 of the BART Protocol.

Visibility impacts were predicted at the PSD Class I areas using receptors provided by the National Park Service (NPS).

2.3 BART EXEMPTION MODELING RESULTS

Summaries of the maximum visibility impairment values for the Crystal River BART-eligible emission units estimated using the new IMPROVE algorithm, are presented in Tables 3A and 4A. The 98th percentile (i.e., 8th highest) 24-hour average visibility impairment values for the years 2001, 2002, and 2003, and the 22nd highest 24-average visibility impairment values over the three years, are presented in Table 3A. The 8th highest visibility impairment values predicted at each PSD Class I area for each year are presented in Table 4A.

As shown in Tables 3A and 4A, the 8th highest visibility impairment values predicted for each year at all of the PSD Class I areas using the 1999 IMPROVE algorithm are greater than 0.5 dv. The 22nd highest visibility impairment value predicted over the 3-year period at this PSD Class I area is also greater than 0.5 dv. As a result, the Crystal River Power Plant is subject to the BART requirements, and a BART determination analysis for PM, SO₂, and NO_x is required for each of the BART-eligible emissions units at the plant.



3.0 REQUIREMENTS FOR ANALYSIS OF BART CONTROL OPTIONS

The visibility regulations define BART as follows:

Best Available Retrofit Technology (BART) means an emission limitation based on the degree of reduction achievable through the application of the best system of continuous emission reduction for each pollutant which is emitted by . . . [a BART-eligible source]. The emission limitation must be established, on a case-by-case basis, taking into consideration the technology available, the costs of compliance, the energy and non-air quality environmental impacts of compliance, any pollution control equipment in use or in existence at the source, the remaining useful life of the source, and the degree of improvement in visibility which may reasonably be anticipated to result from the use of such technology.

The BART analysis identifies the best system of continuous emission reduction, taking into account:

- (1) The available retrofit control options;
- (2) Any pollution control equipment in use at the source (which affects the availability of options and their impacts);
- (3) The costs of compliance with control options;
- (4) The remaining useful life of the facility;
- (5) The energy and non-air quality environmental impacts of control options; and
- (6) The visibility impacts analysis.

Once it is determined that a source is subject to BART for a particular pollutant, then for each affected emission unit, BART must be established for that pollutant. The BART determination must address air pollution control measures for each emissions unit or pollutant emitting activity subject to review.

The five basic steps of a case-by-case BART analysis are:

- STEP 1 – Identify All Available Retrofit Control Technologies
- STEP 2 – Eliminate Technically Infeasible Options
- STEP 3 – Evaluate Control Effectiveness of Remaining Control Technologies
- STEP 4 – Evaluate Impacts and Document the Results
- STEP 5 – Evaluate Visibility Impacts

Based on descriptions provided in 40 CFR 51 Appendix Y, Guidelines for BART Determinations Under the Regional Haze Rule, each of these steps is described briefly in the following sections.

STEP 1 – Identify All Available Retrofit Control Technologies

Available retrofit control options are those air pollution control technologies with a practical potential for application to the emissions unit and the regulated pollutant under evaluation. In identifying “all” options,



the most stringent option and a reasonable set of options for analysis that reflects a comprehensive list of available technologies must be identified. It is not necessary to list all permutations of available control levels that exist for a given technology – the list is complete if it includes the maximum level of control each technology is capable of achieving.

Air pollution control technologies can include a wide variety of available methods, systems, and techniques for control of the affected pollutant. Technologies required as Best Available Control Technology (BACT) or Lowest Achievable Emission Rate (LAER) are available for BART purposes and must be included as control alternatives. The control alternatives can include not only existing controls for the source category in question but also take into account technology transfer of controls that have been applied to similar source categories and gas streams. Technologies that have not yet been applied to (or permitted for) full scale operations do not need to be considered, and purchase or construction of a process or control device that has not already been demonstrated in practice is not expected.

Where a New Source Performance Standard (NSPS) exists for a source category (which is the case for most of the categories affected by BART), a level of control equivalent to the NSPS as one of the control options should be included. The NSPS standards are codified in 40 CFR 60.

Potentially applicable retrofit control alternatives can be categorized in three ways.

- Pollution prevention: use of inherently lower-emitting processes/practices, including the use of control techniques (e.g. low-NO_x burners) and work practices that prevent emissions and result in lower “production-specific” emissions
- Use of (and where already in place, improvement in the performance of) add-on controls, such as scrubbers, fabric filters, thermal oxidizers, and other devices that control and reduce emissions after they are produced
- Combinations of inherently lower-emitting processes and add-on controls

In the course of the BART review, one or more of the available control options may be eliminated from consideration because they are demonstrated to be technically infeasible or to have unacceptable energy, cost, or non-air quality environmental impacts on a case-by-case (or site-specific) basis.

EPA does not consider BART as a requirement to redesign the source when considering available control alternatives. For example, where the source subject to BART is a coal-fired electric generator, EPA does not require the BART analysis to consider building a natural gas-fired electric turbine although the turbine may be inherently less polluting on a per unit basis.

For emission units subject to a BART review, there will often be control measures or devices already in place. For such emission units, it is important to include control options that involve improvements to existing controls and not to limit the control options only to those measures that involve a complete replacement of control devices.



If a BART source has controls already in place that are the most stringent controls available (this means that all possible improvements to any control devices have been made), then it is not necessary to comprehensively complete each following step of the BART analysis. As long as these most stringent controls available are made federally enforceable for the purpose of implementing BART for that source, the remaining analyses may be skipped, including the visibility analysis in Step 5. Likewise, if a source commits to a BART determination that consists of the most stringent controls available, then there is no need to complete the remaining analyses.

STEP 2 – Eliminate Technically Infeasible Options

In Step 2, the source evaluates the technical feasibility of the control options identified in Step 1. The source should document a demonstration of technical infeasibility and should explain, based on physical, chemical, or engineering principles, why technical difficulties would preclude the successful use of the control option on the emissions unit under review. The source may then eliminate such technically infeasible control options from further consideration in the BART analysis.

Control technologies are technically feasible if either (1) they have been installed and operated successfully for the type of source under review under similar conditions, or (2) the technology could be applied to the source under review. Two key concepts are important in determining whether a technology could be applied: “availability” and “applicability.” A technology is considered “available” if the source owner may obtain it through commercial channels, or it is otherwise available within the common sense meaning of the term. An available technology is “applicable” if it can reasonably be installed and operated on the source type under consideration. A technology that is available and applicable is technically feasible.

Where it is concluded that a control option identified in Step 1 is technically infeasible, the source should demonstrate that the option is either commercially unavailable, or that specific circumstances preclude its application to a particular emission unit. Generally, such a demonstration involves an evaluation of the characteristics of the pollutant-bearing gas stream and the capabilities of the technology. Alternatively, a demonstration of technical infeasibility may involve showing that there are un-resolvable technical difficulties with applying the control to the source (e.g., size of the unit, location of the proposed site, operating problems related to specific circumstances of the source, space constraints, reliability, or adverse side effects on the rest of the facility). Where the resolution of technical difficulties is merely a matter of increased cost, the technology should be considered as technically feasible. The cost of a control alternative is considered later in the process.



STEP 3 – Evaluate Control Effectiveness of Remaining Control Technologies

Step 3 involves evaluating the control effectiveness of all the technically feasible control alternatives identified in Step 2 for the pollutant and emissions unit under review. Two key issues in this process include:

- (1) Ensuring that the degree of control is expressed using a metric that ensures an “apples to apples” comparison of emissions performance levels among options
- (2) Giving appropriate treatment and consideration of control techniques that can operate over a wide range of emission performance levels

This issue is especially important when comparing inherently lower-polluting processes to one another or to add-on controls. In such cases, it is generally most effective to express emissions performance as an average steady state emissions level per unit of product produced or processed, such as pounds of emissions per million British thermal units (lb/MMBtu) of heat input.

Many control techniques, including both add-on controls and inherently lower polluting processes, can perform at a wide range of levels. Scrubbers and high and low efficiency electrostatic precipitators (ESPs) are two of the many examples of such control techniques that can perform at a wide range of levels. It is important that in analyzing the technology one take into account the most stringent emission control level that the technology is capable of achieving. Recent regulatory decisions and performance data (e.g., manufacturer’s data, engineering estimates and the experience of other sources) should be considered when identifying an emissions performance level or levels to evaluate.

For retrofitting existing sources in addressing BART, one should consider ways to improve the performance of existing control devices, particularly when a control device is not achieving the level of control that other similar sources are achieving in practice with the same device. For example, one should consider improving performance when sources with ESPs are performing below currently achievable levels.

STEP 4 – Evaluate Impacts and Document the Results

After identifying the available and technically feasible control technology options, the following analyses should be conducted when making the BART determination:

- Costs of compliance
- Energy impacts
- Non-air quality environmental impacts
- Remaining useful life

The source should discuss and, where possible, quantify both beneficial and adverse impacts. In general, the analysis should focus on the direct impact of the control alternative.



Costs of Compliance

To conduct a cost analysis, the following steps are used:

- (1) Identify the emissions units being controlled
- (2) Identify design parameters for emission controls
- (3) Develop cost estimates based upon those design parameters

It is important to identify clearly the emission units being controlled, i.e., to specify a well-defined area or process segment within the plant. In some cases, multiple emission units can be controlled jointly. Then, the control system design parameters should be specified. The value selected for the design parameter should ensure that the control option will achieve the level of emission control being evaluated. The source should include documentation of the assumptions regarding design parameters. Examples of supporting references include the EPA Office of Air Quality Planning and Standards (OAQPS) Control Cost Manual and background information documents used for NSPS and hazardous pollutant emission standards.

Once the control technology alternatives and achievable emissions performance levels have been identified, the source must develop estimates of capital and annual costs. The basis for equipment cost estimates should also be documented, either with data supplied by an equipment vendor (i.e., budget estimates or bids) or by a referenced source (such as the OAQPS Control Cost Manual, Sixth Edition, February 2002). To maintain and improve consistency, cost estimates should be based on the OAQPS Control Cost Manual, where possible. The Control Cost Manual addresses most control technologies in sufficient detail for a BART analysis. The cost analysis should also take into account any site-specific design or other conditions identified above that affect the cost of a particular BART technology option.

Cost effectiveness, in general, is a criterion used to assess the potential for achieving an objective in the most economical way. For purposes of air pollutant analysis, “effectiveness” is measured in terms of tons of pollutant emissions removed, and “cost” is measured in terms of annualized control costs. EPA recommends two types of cost-effectiveness calculations – average cost effectiveness, and incremental cost effectiveness.

Average cost effectiveness means the total annualized costs of control divided by annual emissions reductions (the difference between baseline annual emissions and the estimate of emissions after controls). Because costs are calculated in (annualized) dollars per year (\$/yr) and emission rates are calculated in tons per year (tons/yr), the result is an average cost-effectiveness number in (annualized) dollars per ton (\$/ton) of pollutant removed.

The baseline emissions rate should represent a realistic depiction of anticipated annual emissions for the source. In general, for the existing sources subject to BART, the anticipated annual emissions will be estimated based upon actual emissions from a baseline period.



When future operating parameters (e.g., limited hours of operation or capacity utilization, type of fuel, raw materials or product mix or type) are projected to differ from past practice, and if this projection has a deciding effect in the BART determination, then these parameters or assumptions are to be translated into enforceable limitations. In the absence of enforceable limitations, baseline emissions are calculated based upon continuation of past practice.

In addition to the average cost effectiveness of a control option, the incremental cost effectiveness should also be calculated. The incremental cost effectiveness calculation compares the costs and performance level of a control option to those of the next most stringent option, as shown in the following formula (with respect to cost per emissions reduction):

$$\text{Incremental Cost Effectiveness (dollars per incremental ton removed)} = \frac{[(\text{Total annualized costs of control option}) - (\text{Total annualized costs of next control option})]}{[(\text{Control option annual emissions}) - (\text{Next control option annual emissions})]}$$

Energy Impacts

The energy requirements of the control technology should be analyzed to determine whether the use of that technology results in energy penalties or benefits. If such benefits or penalties exist, they should be quantified to the extent practicable. Because energy penalties or benefits can usually be quantified in terms of additional cost or income to the source, the energy impact analysis can, in most cases, simply be factored into the cost impacts analysis.

The energy impact analysis should consider only direct energy consumption and not indirect energy impacts. The energy requirements of the control options should be shown in terms of total (and in certain cases, also incremental) energy costs per ton of pollutant removed. Then these units can be converted into dollar costs and, where appropriate, can be factored into the control cost analysis. Indirect energy impacts (such as energy to produce raw materials for construction of control equipment) are generally not considered.

The energy impact analysis may also address concerns over the use of locally scarce fuels. The designation of a scarce fuel may vary from region to region. However, in general, a scarce fuel is one that is in short supply locally and can be better used for alternative purposes, or one that may not be reasonably available to the source either at the present time or in the near future.

Non-Air Quality Environmental Impacts

In the non-air quality related environmental impacts portion of the BART analysis, environmental impacts other than air quality due to emissions of the pollutant in question are addressed. Such environmental impacts include solid or hazardous waste generation and discharges of polluted water from a control device.



Any significant or unusual environmental impacts associated with a control alternative that have the potential to affect the selection or elimination of a control alternative should be identified. Some control technologies may have potentially significant secondary environmental impacts. Scrubber effluent, for example, may affect water quality and land use. Alternatively, water availability may affect the feasibility and costs of wet scrubbers. Other examples of secondary environmental impacts could include hazardous waste discharges, such as spent catalysts or contaminated carbon.

In general, the analysis need only address those control alternatives with any significant or unusual environmental impacts that have the potential to affect the selection of a control alternative, or elimination of a more stringent control alternative. Thus, any important relative environmental impacts (both positive and negative) of alternatives can be compared with each other.

Remaining Useful Life

The requirement to consider the “remaining useful life” of the source for BART determinations may be treated as one element of the overall cost analysis. The “remaining useful life” of a source, if it represents a relatively short time period, may affect the annualized costs of retrofit controls. For example, the methods for calculating annualized costs in EPA’s OAQPS Control Cost Manual require the use of a specified time period for amortization that varies based upon the type of control. If the remaining useful life will clearly not exceed this time period, the remaining useful life has an effect on control costs and on the BART determination process. Where the remaining useful life is less than the time period for amortizing costs, this shorter time period should be considered in the cost calculations.

The remaining useful life is the difference between:

- (1) The date that controls will be put in place (capital and other construction costs incurred before controls are put in place can be rolled into the first year, as suggested in EPA’s OAQPS Control Cost Manual); and
- (2) The date the facility permanently stops operations. Where this affects the BART determination, this date should be assured by a federally- or State-enforceable restriction preventing further operation.

EPA recognizes that there may be situations where a source operator intends to shut down a source by a given date, but wishes to retain the flexibility to continue operating beyond that date in the event, for example, that market conditions change. Where this is the case, the BART analysis may account for this, but it must maintain consistency with the statutory requirement to install BART within 5 years. Where the source chooses not to accept a federally enforceable condition requiring the source to shut down by a given date, it is necessary to determine whether a reduced time period for the remaining useful life changes the level of controls that would have been required as BART.



STEP 5 – Evaluate Visibility Impacts

The following is an approach EPA suggests to determine visibility impacts (the degree of visibility improvement for each source subject to BART) for the BART determination. Once it is determined that a source is subject to BART, a visibility improvement determination for the source must be conducted as part of the BART determination.

The permitting agency has flexibility in making this determination, i.e., in setting absolute thresholds, target levels of improvement, or *de minimis* levels, since the deciview improvement must be weighed among the five factors, and the agency is free to determine the weight and significance to be assigned to each factor. For example, a 0.3-dv improvement may merit a stronger weighting in one case versus another, so one “bright line” may not be appropriate.

CALPUFF or another appropriate dispersion model must be used to determine the visibility improvement expected at a Class I area from the potential BART control technology applied to the source. Modeling should be conducted for SO₂, NO_x, and direct PM emissions (PM_{2.5} and/or PM₁₀). There are several steps for determining the visibility impacts from an individual source using a dispersion model:

- Develop a modeling protocol.
- For each source, run the model at pre-control and post-control emission rates according to the accepted methodology in the protocol. Use the 24-hour average actual emission rate from the highest emitting day of the meteorological period modeled (for the pre-control scenario). Calculate the model results for each receptor as the change in dv compared against natural visibility conditions. Post-control emission rates are calculated as a percentage of pre-control emission rates. For example, if the 24-hour pre-control emission rate is 100 pounds per hour (lb/hr) of SO₂ and the control efficiency being evaluated is 95 percent, then the post-control rate is 5 lb/hr.
- Make the net visibility improvement determination. Assess the visibility improvement based on the modeled change in visibility impacts for the pre-control and post-control emission scenarios. The assessment of visibility improvements due to BART controls is flexible and can be done by one or more methods. The frequency, magnitude, and duration components of impairment may be considered. Suggestions for making the determination are:
 - Use of a comparison threshold, as is done for determining if BART-eligible sources should be subject to a BART determination. Comparison thresholds can be used in a number of ways in evaluating visibility improvement (e.g., the number of days or hours that the threshold was exceeded, a single threshold for determining whether a change in impacts is significant, or a threshold representing a given percentage change in improvement).
 - Compare the 98th percentile days for the pre- and post-control runs.

Each of the modeling options may be supplemented with source apportionment data or source apportionment modeling.



Selecting the “Best” Alternative

From the alternatives evaluated in Step 3, EPA recommends developing a chart (or charts) displaying for each of the alternatives the following:

- (1) Expected emission rate (tons per year, lb/hr)
- (2) Emissions performance level (e.g., percent pollutant removed, emissions per unit product, lb/MMBtu, parts per million)
- (3) Expected emissions reductions (tons per year)
- (4) Costs of compliance – total annualized costs (\$), cost effectiveness (\$/ton), incremental cost effectiveness (\$/ton), and/or any other cost-effectiveness measures (such as \$/dv)
- (5) Energy impacts
- (6) Non-air quality environmental impacts
- (7) Modeled visibility impacts

The source has the discretion to determine the order in which control options for BART should be evaluated. The source should provide a justification for adopting the technology selected as the “best” level of control, including an explanation of the CAA factors that led to the choice of that option over other control levels.

In the case where the source is conducting a BART determination for two regulated pollutants on the same source, if the result is two different BART technologies that do not work well together, then a different technology or combination of technologies can be substituted.

Even if the control technology is cost effective, there may be cases where the installation of controls would affect the viability of continued plant operations. There may be unusual circumstances that justify taking into consideration the conditions of the plant and the economic effects of requiring the use of a given control technology. These effects would include effects on product prices, the market share, and profitability of the source. Where there are such unusual circumstances that are judged to affect plant operations, the conditions of the plant and the economic effects of requiring the use of a control technology may be taken into consideration. Where these effects are judged to have a severe impact on plant operations, they may be considered in the selection process, but an economic analysis that demonstrates, in sufficient detail for public review, the specific economic effects, parameters, and reasoning may have to be provided. Any analysis may also consider whether other competing plants in the same industry have been required to install BART controls if this information is available.



4.0 BART ANALYSIS

4.1 SO₂ Emissions

As shown in Table 3A, the highest 8th highest visibility impact due to Units 1 and 2 is 7.93 dv, more than 90 percent of which is due to sulfate particles. Since sulfate particles are formed due to SO₂ and sulfuric acid mist (SAM) emissions, reduction of SO₂ emissions from Units 1 and 2 is the most effective way to reduce visibility impacts due to the BART-eligible emissions units at the site. The SO₂ emissions from the two boilers are currently not controlled.

The BART control analysis, which is similar to the BACT analysis under PSD regulations, is presented in the following sections for SO₂ emissions from the two units. The analysis includes consideration of the available retrofit control technologies, analyzing the feasibility of these technologies, evaluating control effectiveness of the feasible control technologies, evaluating the impacts from cost of compliance, energy, non air-quality environmental, remaining useful life, and finally evaluating the improvement in visibility that may result from the control technology.

4.1.1 Available Retrofit Control Technologies

As part of the BART analysis, a review of previous SO₂ BACT determinations for coal-fired utility and large industrial-sized boilers was performed using the RACT/BACT/LAER Clearinghouse (RBLC) on EPA's webpage. Numerous examples are available in the RBLC database for large coal-fired boilers, which typically use flue gas desulfurization (FGD) as the BACT for SO₂ emissions. However, it should be noted that this database does not reflect the use of FGD systems as a retrofit to existing units. For existing units, the use of lower sulfur fuels is much more cost-effective than the retrofit of an FGD system. These determinations are presented in Table 5.

4.1.2 Control Technology Feasibility

The following control technologies were analyzed:

Low Sulfur Fuel

Units 1 and 2 currently burn bituminous coal. Sulfur content of bituminous coal can range from 0.3 percent to more than 3 percent. Switching to a lower-sulfur coal can reduce SO₂ emissions; however, the cost of compliance depends on the following:

- Cost difference of low sulfur coal and the coal currently used
- Difference in delivery cost for the lower-sulfur coal
- Costs associated with modifications to the units to enable use of lower sulfur coals

Use of low sulfur fuel is considered to be a technically feasible option to reduce SO₂ emissions.



Flue Gas Desulfurization

FGD systems are post-combustion control technologies that rely on chemical reactions within the control device to reduce the concentration of SO_2 in the flue gas. The chemical reaction with an alkaline chemical, which can be performed in a wet or dry contact system, converts SO_2 to sulfite or sulfate salts. In a wet FGD system, a reagent is slurried with water and sprayed into the flue gas stream in an absorber vessel. The SO_2 is removed from the flue gas by sorption and reaction with the slurry. The by-products of the sorption and reaction are in a wet form upon leaving the system and must be dewatered prior to transport/disposal.

The most widely used system for large-scale SO_2 removal is the calcium-based wet lime/limestone FGD system. SO_2 control efficiencies for wet limestone FGD range from 50 to 98 percent, depending on the type of device and design, with an average of 90 percent.

In a dry FGD system, SO_2 -containing flue gas comes into contact with an alkaline sorbent such as lime. The sorbent can be delivered to flue gas in an aqueous slurry form (lime spray drying process) or as a dry powder (sorbent injection process). After the sorption and reaction process, a dry waste is produced which is similar to fly ash. The by-product is subsequently captured in a downstream particulate collection device, typically an ESP or a baghouse.

A dry scrubber can use either lime or sodium carbonate as reagent. A typical dry scrubber will use lime as the reagent because it is more readily available than sodium carbonate and the sodium-based reactions produce a soluble by-product that requires special handling.

Lime spray drying efficiency ranges from 70 to 96 percent, with an average of 90 percent. The use of a PM control device after the dry scrubber differs from the wet scrubber system, in which the slurry leaving the wet system must be dewatered and the gas cooled to adiabatic saturation temperature, which requires the particulate control device to be located upstream of the scrubber. The dry byproduct from the dry scrubber system is generally not marketable, since the byproducts includes fly ash and reacted SO_2 and calcium compounds. In contrast, the wet limestone FGD system can produce a marketable byproduct (i.e., gypsum).

Because the dry scrubber absorber construction material is usually carbon steel, the capital costs are usually less expensive as compared with wet scrubbers. However, the necessary use of lime in the process increases its annual operational costs. Based on the EPA Fact Sheet on FGD systems, typical industrial applications of FGD systems are stationary coal and oil-fired combustion units such as utility and industrial boilers.



The RBLC database review also shows that post-combustion controls are typically applied to coal-fired boilers. The EPA Fact Sheet mentions the high capital cost of an FGD system as a disadvantage.

4.1.3 Control Effectiveness of Options

The effectiveness of SO₂ emissions control by the use of an FGD system is assumed to result in approximately 95 percent control. PEF has preliminary estimates of the costs to retrofit dry FGD (DFGD) systems on Units 1 and 2, based on a Worley Parsons (WP) study conducted in 2010. The effectiveness of SO₂ emissions control by the use of low sulfur coal depends on the sulfur content of the lower sulfur coal that is available and economically feasible.

4.1.4 Impacts of Control Technology Options

LOW SULFUR FUELS

To achieve SO₂ emissions below current levels, Units 1 and 2 would require use of lower sulfur coal. The annual average fuel sulfur level for Crystal River Units 1 and 2 during the baseline years was approximately 1.02 percent. Based on the highest average fuel sulfur of 1.02 percent and an average fuel heating value of approximately 12,000 Btu/lb, an average baseline SO₂ emission rate of 1.7 lb/mmBtu was achieved. PEF has indicated that commercially available coal sulfur contents are as follows:

- 0.68 percent sulfur (equivalent to 1.2 lb/mmBtu, based on a fuel heating value of 12,000 Btu/lb)
- 0.35 percent sulfur (equivalent to 0.8 lb/mmBtu, based on a fuel heating value of 8,500 Btu/lb)

However, it is important to note that the 0.35 percent sulfur coal is representative of sub-bituminous coal, also referred to as Powder River Basin (PRB) coal. This coal requires special handling and modifications to existing equipment. While lower sulfur coal is potentially available from the Powder River Basin (PRB), PRB coal is sub-bituminous coal that has unique combustion characteristics requiring specific boiler designs and modifications to existing coal transport, handling and storage equipment. Moreover, the transportation of this coal from Wyoming to Florida would not only add significant cost but involve considerable secondary environmental impacts from unit trains travelling such a distance.

Based on information provided by PEF, the current delivered fuel (1.02 percent sulfur) cost is \$4.25 per mmBtu of heating value. The cost of compliance to use reduced sulfur coal is represented by the additional cost of the lower sulfur coal versus the current 1.02 percent sulfur coal used in the boilers, plus any other capital costs that may be associated with the conversion to a different coal. According to PEF, reduced sulfur coal with 0.68 percent and 0.35 percent sulfur costs \$4.37 per mmBtu and \$4.04 per mmBtu, respectively, excluding additional capital and operating costs.



The cost analysis for the lower sulfur fuel options was prepared following EPA's Control Cost Manual, and is presented in Table 6 for Units 1 and 2. There are additional equipment costs and indirect capital costs for using the lower sulfur bituminous coal (i.e., the 0.68 percent sulfur case), that could be required due to the anticipated reduction in control efficiency of the ESPs while burning lower sulfur coal. It is unknown at this time if ESP upgrades will be required to meet the current BART PM limit of 0.04 lb/mmBtu normal operation and 0.12 lb/mmBtu limit for soot blowing operation after a switch to compliance coal. The high-level cost estimates provided are based on previous analyses to meet the lowered PM BART limit while burning coal with the current sulfur content. Additional analyses would be required to determine unit-specific modifications needed to maintain reliable ESP operation at this same PM BART limit, but taking into account the reduced efficiency expected while burning a lower sulfur coal.

Given the above qualifications on the cost estimates, Table 6 presents the total capital and annualized costs of switching Units 1 and 2 from the coal currently used to 0.68 percent sulfur coal. Annualized operating costs are estimated at more than \$97 million, resulting in an average cost effectiveness of approximately \$8,665 per ton of SO₂ removed if 0.68 percent sulfur fuel is used instead of the current coal.

To calculate the emissions reduction due to the control options, an apples-to-apples comparison of baseline emissions and controlled emissions were calculated based on future projected actual fuel usage. For the remaining useful life of these units, PEF has estimated annual fuel usage to be approximately 45,000,000 mmBtu/yr for both units combined. This represents a capacity factor of approximately 60 percent for these units.

Regarding the PRB coal option, there would be additional equipment costs and indirect capital costs for using the lower sulfur sub-bituminous coal (i.e., the 0.35 percent sulfur case), that could be required due to the anticipated reduction in control efficiency of the ESPs while burning lower sulfur coal, as well as the additional capital costs required for other equipment modifications. This cost estimate is based on a 2005 Sargent and Lundy Crystal River 4 & 5 study on costs of converting to 100 percent PRB. Significant increased scope is not included in this estimate, as an engineering evaluation would have to be completed to accurately define the required scope. Excluded scope includes, but is not limited to, pressure part modifications, ESP modifications, electrical system upgrades, and fan modifications. The 2005 costs were escalated to 2012 costs using the Global Insight Ash and Coal Handling cost category. In addition this cost estimate does not include any O&M, reagent, byproduct or fuel cost impacts, nor does it include a risk adjustment for potential safety hazards and associated issues related to the use of PRB coal at the Crystal River site.

Given the above qualifications and exclusions from the cost estimates, Table 6 presents the capital and annualized costs of switching Units 1 and 2 from the coal currently used to 0.35 percent sulfur coal.



Annualized operating costs are estimated at more than \$296 million, resulting in an average cost effectiveness of approximately \$14,652 per ton of SO₂ removed from the current base case and an incremental cost effectiveness of approximately \$22,137 per ton of SO₂ removed when compared to the 0.68 percent sulfur case.

However, it should be noted that the Mercury and Air Toxics Standards (MATS) or Utility MACT, was issued with an effective date of April 16, 2012 and requires the installation of maximum achievable control technology (MACT). For existing EGUs, MATS contains an alternative, surrogate emission limit for PM with a compliance deadline of April 16, 2015, and an optional possibility of two one-year extensions. Relating MATS to BART, EPA has stated in 40 CFR Part 51, Appendix Y that facilities may rely on the MACT standards for purposes of BART. Ultimately, MATS will require the installation of controls on Crystal River Units 1 & 2 or force their retirement.

Energy Impacts

There are energy impacts associated with using lower sulfur coals, such as PRB coal, since the heating value of the PRB coal is much lower than the current coals being used (e.g., 8,500 Btu/lb versus 12,000 Btu/lb).

Non-Air Quality Environmental Impacts

Use of low or reduced sulfur coal does not result in any non-air quality environmental impacts.

Remaining Useful Life

A BART permit was issued for these units on February 25, 2009 (permit No. 0170004-017-AC), which imposed a revised allowable PM emission limit. The permit assumes that Units 1 and 2 will cease to be operated as coal-fired units by December 31, 2020. The permit requires PEF to notify the Department of any developments that would delay the shutdown (or repowering) of Units 1 and 2 beyond this date.

For the low sulfur fuel control options, it is assumed that some level of capital improvement will be required for ESP upgrades to accommodate the 0.68 percent sulfur coal, and that replacement of the ESPs with baghouses and other equipment modifications would be required for the firing of PRB coal. For this analysis, it is assumed that ESP upgrades or replacements and other equipment modifications would not be complete until 2018. Since the proposed unit retirement date is the end of 2020, this would result in a useful control option equipment life of two years.

FLUE GAS DESULFURIZATION

PEF has preliminary estimates of the costs to retrofit dry FGD (DFGD) systems on Units 1 and 2, based on a Worley Parsons (WP) study conducted in 2010. This estimate is characterized as a Class 5 estimate with an approximate accuracy rate of +/- 30 percent. The study also has several qualifications on the cost estimates, which are not included in this report, as follows:



- Based on the location at Crystal River for construction (i.e. site constraints, conditions of the current units, etc), a 20 percent productivity factor is recommended to be added to the EPC
- Estimate does not provide funds for transformers
- Reasonable Progress Energy owner's cost would be approximately 2.5 percent
- Add owner's contingency on the EPC contract at 5 percent
- This estimate does not factor in any escalation - assume 5 percent per year
- This estimate is project view and does not include any AFUDC, burdens or allocations. A rough estimate for financial view (AFUDC, burdens, allocations) costs would be approximately 8 percent

It is estimated that the capital costs for installation of DFGD systems are approximately \$445 million for Units 1 and 2 combined. As shown in Table 7, the total annualized cost for installation and operation of the DFGD systems is \$364 million for Units 1 and 2 combined. These annualized costs represent the annualized capital cost, as well as recurring annual operating costs for each unit.

To calculate the emissions reduction due to the DFGD control option, an apples-to-apples comparison of baseline emissions and controlled emissions were calculated based on future projected actual fuel usage. For the remaining useful life of these units, PEF has estimated annual fuel usage to be approximately 45,000,000 mmBtu/yr for both units combined. This represents a capacity factor of approximately 60 percent for these units. In addition, it is assumed that the baseline sulfur coal will continue to be fired and that the design DFGD control efficiency will be 95 percent.

As shown in Table 7, the average cost effectiveness is calculated to be approximately \$10,034 per ton of SO₂ removed for Units 1 and 2 combined.

Energy Impacts

There are energy impacts associated with operation of DFGD systems. These additional energy impacts, due to use of auxiliary power and additional pressure drop in the system, are factored into the control cost analysis.

Non-Air Quality Environmental Impacts

Non-air quality impacts would potentially include increased energy use, increased water use and generation of additional solid wastes.

Remaining Useful Life

A BART permit was issued for these units on February 25, 2009 (permit No. 0170004-017-AC), which imposed a revised allowable PM emission limit. The permit assumes that Units 1 and 2 will cease to be operated as coal-fired units by December 31, 2020. The permit requires PEF to notify the Department of any developments that would delay the shutdown (or repowering) of Units 1 and 2 beyond this date.



Installation of DFGD controls for Units 1 and 2 would require time for project design and construction, as well as consideration for scheduling that allows for the continued operation to allow PEF to supply reliable electric power to its customers. For this analysis, it is assumed that these upgrades would not be complete until 2018. This would result in a useful control option equipment life of two years.

4.1.5 Visibility Impacts

To calculate the visibility improvement due to the lower sulfur content fuel and the DFGD control options, first the baseline visibility impacts were estimated based on the maximum 8th highest 24-hour average visibility impacts presented in Table 3A, which is 7.93 dv. Since sulfate particles contributed to more than 90-percent of the total visibility impact, instead of using just the sulfate contribution, the total impact (due to all pollutants) was used as a baseline.

Future or controlled visibility impacts were estimated based on modeling the reduced SO₂ emissions rates, which will result from the burning of lower sulfur coal and the installation of FGD systems of 95 percent control efficiency. These emission rates were calculated by multiplying the SO₂ emissions rates used in the baseline impact analysis by the ratio of: 1) the specific sulfur content (0.68 percent or 0.35 percent) and the baseline sulfur content (estimated to be 1.02 percent) for the fuel sulfur option and 2) by the uncontrolled baseline and the estimated control efficiency of the add on control equipment for the FGD option. The SO₂, NO_x and PM emission rates for the 0.68 percent sulfur coal, 0.35 percent sulfur coal and FGD systems scenarios are provided in Tables 1B, 1C and 1D, respectively. The PM speciation profiles for the 0.68 percent sulfur coal, 0.35 percent sulfur coal and FGD unit scenarios are shown in Tables 1B, 1C and 1D, respectively. Visibility improvements were determined by subtracting future dv impacts from the baseline dv impacts. Tables 3B, 3C and 3D provide a summary of the BART modeling results, including the relative contributions of SO₂, NO_x and PM, for the 0.68 percent sulfur coal, 0.35 percent sulfur coal and FGD systems cases, respectively. Tables 4B, 4C and 4D show the visibility rankings at each Class I area for 0.68 percent sulfur coal, 0.35 percent sulfur coal and FGD unit scenarios, respectively.

The visibility cost effectiveness numbers were calculated from the annual costs and the visibility improvement in dv. Visibility cost effectiveness numbers for the two units together are also presented in Table 6. As shown, visibility cost effectiveness for switching from the approximate 1.02 percent sulfur currently used to 0.68 percent sulfur is more than \$40.4 million/dv for a total visibility improvement of 2.41 dv. Incremental visibility cost effectiveness for switching to 0.35 percent sulfur fuel is \$145 million/dv for an additional improvement of 1.37 dv. Finally, the visibility cost effectiveness for installation of an DFGD system on Units 1 and 2 combined is \$79.4 million/dv for an additional improvement of 4.59 dv. This visibility improvement is extremely small for a very large cost.



4.1.6 Selection of BART

As the pollutant and visibility cost effectiveness values above indicate, the cost of improvement is extremely high for switching from the current coal to 0.68 or 0.35 percent sulfur coal. As a result, switching to either of these lower sulfur coals has been determined to be cost prohibitive. Further, the capital cost and annual operating costs associated with retrofitting FGD systems on Units 1 and 2 was also demonstrated to be prohibitive.

In addition, it should be noted that the Mercury and Air Toxics Standards (MATS) or Utility MACT, was issued with an effective date of April 16, 2012 and requires the installation of maximum achievable control technology (MACT). For existing EGUs, MATS contains an alternative, surrogate emission limit for PM with a compliance deadline of April 16, 2015, and an optional possibility of two one-year extensions. Relating MATS to BART, EPA has stated in 40 CFR Part 51, Appendix Y that facilities may rely on the MACT standards for purposes of BART. Ultimately, MATS will require the installation of controls on Crystal River Units 1 & 2 or force their retirement.

4.2 NO_x Emissions

PEF has actual capital and annual operating costs for the SCR systems that were installed at Crystal River for Units 4 and 5. These are actual costs for retrofit SCR systems at existing coal-fired units at Crystal River and are considered representative, when scaled to MW capacity, of the costs to install and operate SCR systems for Units 1 and 2. It is estimated that the capital costs for installation of SCR systems are approximately \$83 MM and \$99 MM for Units 1 and 2, respectively. These are significant costs and cannot be justified for an approximate two years of useful control equipment life (i.e., 2018 until retirement in 2020).

Further, due to recent regulatory developments related to EPA's Clean Air Interstate Rule (CAIR) and its successor, the Cross-State Air Pollution Rule (CSAPR), CSAPR is currently stayed, and CAIR remains in effect, pending judicial review of CSAPR. PEF believes that compliance with CAIR (and CSAPR, depending on the court's decision) will serve to demonstrate compliance with applicable NO_x standards under the BART program.

In addition, as shown in Table 3A, the visibility contribution of nitrate particles (which are formed by NO_x emissions) corresponding to the maximum 8th highest 24-hour average visibility impact is only 7.0 percent. Therefore, control of NO_x emissions will provide minimal effect in reducing visibility impacts due to Units 1 and 2 at the receptor corresponding to the maximum 8th highest visibility impact at the nearest Class I area (i.e., Chassohowitzka NRA).

Additional add-on control technologies, such as a selective catalytic reduction (SCR) system, will require a direct capital investment, as well as continuing annual operating costs for each unit, which will not result



in any meaningful reduction in visibility. As demonstrated by modeling, the visibility contribution of nitrate particles is not significant. Further, PEF believes that compliance with CAIR (and CSAPR, depending on the court's decision) will serve to demonstrate compliance with applicable NO_x standards under the BART program. As a result, PEF proposes that existing combustion processes, low NO_x burners, and good combustion practices be considered as BART for NO_x emissions for Units 1 and 2.

**TABLE 1A
BART MODELING DATA INPUT
CRYSTAL RIVER POWER PLANT, UNITS 1 & 2
BASELINE (EXEMPTION) SCENARIO**

| Parameter | Units | Value | |
|--|-------------|-----------------|------------------|
| Emission Unit | | Unit 1 | Unit 2 |
| <u>Location</u> | | | |
| UTM Coordinates ^a | | | |
| East | km | 334.30 | 334.30 |
| North | km | 3,204.50 | 3,204.50 |
| Zone | | 17 | 17 |
| Lambert Conformal Coordinates ^a | | | |
| x | km | 1,398.50 | 1,398.50 |
| y | km | -1,116.10 | -1,116.10 |
| <u>Stack Data</u> | | | |
| Height | ft (m) | 499 (152.1) | 502 (153.0) |
| Diameter | ft (m) | 15 (4.57) | 16.0 (4.88) |
| Base elevation | ft (m) | 3.3 (1.00) | 3.3 (1.00) |
| Hourly heat input ^b | MMBtu/hr | 3630.0 - | 4390.0 - |
| <u>Operating Data</u> | | | |
| Exit gas temperature | °F (K) | 291 (417) | 300 (422) |
| Exit gas velocity | ft/s (m/s) | 132.7 (40.5) | 160.0 (48.8) |
| <u>Emission Data^{c,d,e,f}</u> | | | |
| SO ₂ | lb/hr (g/s) | 7,238.4 (912.0) | 8,968.1 (1130.0) |
| NO _x | lb/hr (g/s) | 1,601.2 (201.7) | 2,913.0 (367.0) |
| PM Filterable | lb/hr (g/s) | 140.8 (17.7) | 115.2 (14.5) |
| SO ₄ | lb/hr (g/s) | 50.4 (6.4) | 61.0 (7.7) |

Notes:

- a. Based on common location using UTM coordinates of:

| | |
|-------|------------|
| East | 567.4 km |
| North | 2,813.5 km |
- b. Hourly heat input for each unit corresponds to the maximum hourly PM emissions for 2001 - 2006.
- c. SO₂ emissions data based on CEMS data for 2001 - 2003.
- d. NO_x emissions data based on CEMS data for 2001 - 2003.
- e. PM filterable emissions data based on monitoring data from 2001 - 2006.
- f. SO₄ emissions data calculated based on 0.8% conversion of sulfur to H₂SO₄ and 37% removal of H₂SO₄ in electrostatic precipitator (Southern Company methodology).

**TABLE 2A
PM SPECIATION SUMMARY - PEF CRYSTAL RIVER POWER PLANT, UNIT 1
BASELINE (EXEMPTION) SCENARIO**

| PM Category | Emission Unit ^a | Units | Total | Coarse PM | Soil (Fine PM) | Elemental Carbon (EC) | Inorganic (as H ₂ SO ₄) | Organic |
|---|----------------------------|------------|----------------|----------------|----------------|-----------------------|--|----------------|
| PM Filterable ^b | Unit 1 | lb/hr % | 140.8 100% | 78.23 56% | 60.27 43% | 2.32 1.6% | NA NA | NA NA |
| PM Condensable ^c | Unit 1 | lb/hr % | 283.14 100% | NA NA | NA NA | NA NA | 50.4 18% | 232.7 82% |
| Total PM ₁₀ (filterable+condensable) | Unit 1 | lb/hr % | 424.0 100% | 78.23 18.5% | 60.27 14.2% | 2.32 0.5% | 50.43 11.9% | 232.7 54.9% |
| Total PM ₁₀ (filterable+Organic Condensable PM Modeled PM Speciation % (SO ₂ modeled separately)) | Unit 1 | lb/hr % | 373.5 100% | 78.23 20.9% | 60.27 16.1% | 2.32 0.6% | 0.0 0.0% | 232.7 62.3% |

PM Particle Size Distribution for CALPUFF Assessment

| Species Name | Size Distribution by Category (%) | | | | | Emission Rate (lb/hr) | | |
|-------------------------|-----------------------------------|----------------|--------------------------------|-----------------------|--------|--|---------------------|-------|
| | AP-42 (Table 1.1-6) | | Cumulative Normalized PM10 (%) | Individual Categories | | Filterable | Organic Condensable | Total |
| Particle Size (microns) | Cumulative (%) | Filterable (%) | | Organic Condensable | | | | |
| Total PM ₁₀ | | | | | | 140.8 | 232.7 | 373.5 |
| PM0063 | 0.63 | 18.5% | 33.3% | 33.3% | 50.0% | 46.9 | 116.4 | 163.2 |
| PM0100 | 1 | 0.0% | 0.0% | 0.0% | 50.0% | 0.0 | 116.4 | 116.4 |
| PM0125 | 1.25 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM0250 | 2.5 | 25.9% | 46.6% | 13.3% | 0 | 18.7 | 0.0 | 18.7 |
| PM0600 | 6 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM1000 | 10 | 55.6% | 100.0% | 53.4% | 0 | 75.2 | 0.0 | 75.2 |
| Totals | | | | 100.0% | 100.0% | 140.8 | 232.7 | 373.5 |
| | | | | | | Total Modeled PM ₁₀ = 373.5 | | |

^a Heat input rate for unit and fuel heat content 3,630 MMBtu/hr 3,630 Unit 1
1.08 sulfur content (%)

^b PM fine consists of PM soil and PM elemental carbon lb/1000 gal
PM fine based on ratio of PM2.5 (fine) to PM10 (filterable) PM2.5 0.24 lb/ton Ratio = 0.44 PM2.5/PM10
emission factor (Table 1.1-5, AP-42) PM10 0.54 lb/ton

PM elemental carbon based on EPA's "Catalog of Global Emissions Inventories and Emission Inventory Tools for Black Carbon", Table 5, January 2002 DRAFT
0.037 of PM2.5

PM elemental carbon 0.016 PM elemental carbon/PM10
PM soil= PM2.5 - PM elemental carbon 0.43 PM soil/PM10
PM2.5 0.44 PM2.5/PM10
PM coarse= PM10 - PM2.5

^c Condensable PM (Table 1.1-6, AP-42) lb/MMBtu
Total 0.1 x S - 0.03
0.08



TABLE 2A (CONTINUED)
PM SPECIATION SUMMARY - PEF CRYSTAL RIVER POWER PLANT, UNIT 2
BASELINE (EXEMPTION) SCENARIO

| PM Category | Emission Unit ^a | Units | Total | Coarse PM | Soil (Fine PM) | Elemental Carbon (EC) | Inorganic (as H ₂ SO ₄) | Organic |
|--|--|----------------|--------------------------------|--|----------------|--------------------------------------|--|-----------------|
| PM Filterable ^b | Unit 1 | lb/hr % | 115.2 100% | 64.00 56% | 49.31 43% | 1.89 1.6% | NA NA | NA NA |
| PM Condensable ^c | Unit 1 | lb/hr % | 342.42 100% | NA NA | NA NA | NA NA | 61.0 18% | 281.4 82% |
| Total PM ₁₀ (filterable+condensable) | Unit 1 | lb/hr % | 457.6 100% | 64.00 14.0% | 49.31 10.8% | 1.89 0.4% | 61.0 13.3% | 281.4 61.5% |
| Total PM ₁₀ (filterable+Organic Condensable PM) Modeled PM Speciation % (SO ₄ modeled separately) | Unit 1 | lb/hr % | 396.6 100% | 64.00 16.1% | 49.31 12.4% | 1.89 0.5% | 0.0 0.0% | 281.44 71.0% |
| PM Particle Size Distribution for CALPUFF Assessment | | | | | | | | |
| Species Name | Size Distribution by Category (%) | | | | | Emission Rate (lb/hr) | | |
| | AP-42 (Table 1.1-6) Particle Size (microns) | Cumulative (%) | Cumulative Normalized PM10 (%) | Individual Categories Filterable (%) Organic Condensable (%) | | Filterable | Organic Condensable | Total |
| Total PM ₁₀ | | | | | | 115.2 | 281.4 | 396.6 |
| PM0063 | 0.63 | 18.5% | 33.3% | 33.3% | 50.0% | 38.3 | 140.7 | 179.0 |
| PM0100 | 1 | 0.0% | 0.0% | 0.0% | 50.0% | 0.0 | 140.7 | 140.7 |
| PM0125 | 1.25 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM0250 | 2.5 | 25.9% | 46.6% | 13.3% | 0 | 15.3 | 0.0 | 15.3 |
| PM0600 | 6 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM1000 | 10 | 55.6% | 100.0% | 53.4% | 0 | 61.5 | 0.0 | 61.5 |
| Totals | | | | 100.0% | 100.0% | 115.2 | 281.4 | 396.6 |
| | | | | | | Total Modeled PM ₁₀ 396.6 | | |

^a Heat input rate for unit and fuel heat content

4,390 MMBtu/hr
1.08 sulfur content (%) 4,390 Unit 1

^b PM fine consists of PM soil and PM elemental carbon
 PM fine based on ratio of PM2.5 (fine) to PM10 (filterable)
 emission factor (Table 1.1-5, AP-42)

lb/1000 gal
 PM2.5 0.24 lb/ton Ratio = 0.44 PM2.5/PM10
 PM10 0.54 lb/ton

PM elemental carbon based on EPA's "Catalog of Global Emissions Inventories and Emission Inventory Tools for Black Carbon", Table 5, January 2002 DRAFT
 0.037 of PM2.5

PM elemental carbon 0.016 PM elemental carbon/PM10
 PM soil= PM2.5 - PM elemental carbon 0.43 PM soil/PM10
 PM2.5 0.44 PM2.5/PM10
 PM coarse= PM10 - PM2.5

^c Condensable PM (Table 1.1-6, AP-42)

lb/MMBtu
 Total 0.1 x S - 0.03
 0.08

**TABLE 3A
SUMMARY OF BART BASELINE (EXEMPTION) MODELING RESULTS WITH NEW IMPROVE ALGORITHM
CRYSTAL RIVER POWER PLANT - UNITS 1 AND 2 - COAL FIRING**

| Class I Area | Distance (km) of Source to Nearest Class I Area Boundary | Visibility Impact >0.5 dv | | | | 22 nd Highest Impact (dv) Over 3-Yr Period |
|---|--|---|---|---|---|---|
| | | 2001 8 th Highest Impact (dv) | 2002 8 th Highest Impact (dv) | 2003 8 th Highest Impact (dv) | 2003 8 th Highest Impact (dv) | |
| Saint Marks NWA <i>Pollutant Contribution</i> | 174 | Sulfate | 3.40 | 3.99 | Sulfate | 3.96 |
| | | Nitrate | 89.8% | 85.2% | Nitrate | 10.1% |
| | | Particulate Matter | 2.6% | 4.8% | Particulate Matter | |
| Chassahowitzka NWA <i>Pollutant Contribution</i> | 21 | Sulfate | 7.18 | 6.43 | Sulfate | 6.97 |
| | | Nitrate | 47.8% | 42.6% | Nitrate | 29.5% |
| | | Particulate Matter | 23.8% | 27.9% | Particulate Matter | |
| Wolf Island NWA <i>Pollutant Contribution</i> | 293 | Sulfate | 1.22 | 1.78 | Sulfate | 1.52 |
| | | Nitrate | 96.2% | 94.4% | Nitrate | 1.8% |
| | | Particulate Matter | 2.3% | 3.7% | Particulate Matter | |
| Okfenokee NWA <i>Pollutant Contribution</i> | 178 | Sulfate | 2.82 | 2.14 | Sulfate | 2.70 |
| | | Nitrate | 83.4% | 95.0% | Nitrate | 3.0% |
| | | Particulate Matter | 13.1% | 2.0% | Particulate Matter | |

TABLE 4A
VISIBILITY IMPACT RANKINGS AT PSD CLASS I AREAS
WITH NEW IMPROVE ALGORITHM, BASELINE (EXEMPTION) ANALYSIS
CRYSTAL RIVER POWER PLANT - UNITS 1 AND 2

| Class I Area | Rank | 2001 | | 2002 | | 2003 | |
|--------------------|------|-----------------------|-----------------------|-----------------------|-----------------------|------|--|
| | | Predicted Impact (dv) | Predicted Impact (dv) | Predicted Impact (dv) | Predicted Impact (dv) | | |
| Saint Marks NWA | 1 | 8.14 | 7.93 | 5.09 | | | |
| | 2 | 6.13 | 5.75 | 4.99 | | | |
| | 3 | 5.57 | 4.26 | 4.98 | | | |
| | 4 | 5.27 | 4.14 | 4.69 | | | |
| | 5 | 4.74 | 3.63 | 4.64 | | | |
| | 6 | 4.46 | 3.50 | 4.56 | | | |
| | 7 | 4.24 | 3.42 | 4.44 | | | |
| | 8 | 4.08 | 3.40 | 3.99 | | | |
| Chassahowitzka NWA | 1 | 10.59 | 9.82 | 9.21 | | | |
| | 2 | 9.85 | 9.29 | 9.19 | | | |
| | 3 | 9.58 | 8.21 | 8.26 | | | |
| | 4 | 9.56 | 7.84 | 7.65 | | | |
| | 5 | 8.79 | 7.84 | 6.97 | | | |
| | 6 | 8.62 | 7.56 | 6.66 | | | |
| | 7 | 8.36 | 7.56 | 6.47 | | | |
| | 8 | 7.93 | 7.18 | 6.43 | | | |
| Wolf Island NWA | 1 | 3.31 | 3.59 | 2.62 | | | |
| | 2 | 2.26 | 2.90 | 2.51 | | | |
| | 3 | 2.14 | 2.14 | 2.39 | | | |
| | 4 | 1.54 | 1.80 | 2.35 | | | |
| | 5 | 1.52 | 1.54 | 2.16 | | | |
| | 6 | 1.43 | 1.48 | 1.94 | | | |
| | 7 | 1.38 | 1.34 | 1.81 | | | |
| | 8 | 1.23 | 1.22 | 1.78 | | | |
| Okefenokee NWA | 1 | 4.66 | 4.53 | 4.57 | | | |
| | 2 | 3.99 | 4.37 | 3.98 | | | |
| | 3 | 3.55 | 3.29 | 3.96 | | | |
| | 4 | 2.98 | 3.15 | 3.44 | | | |
| | 5 | 2.83 | 3.02 | 3.35 | | | |
| | 6 | 2.83 | 2.90 | 2.81 | | | |
| | 7 | 2.55 | 2.85 | 2.78 | | | |
| | 8 | 2.50 | 2.82 | 2.14 | | | |

**TABLE 1B
BART MODELING DATA INPUT
CRYSTAL RIVER POWER PLANT, UNITS 1 & 2
COMPLIANCE COAL, 0.68 WEIGHT % SULFUR**

| Parameter | Units | Unit 1 | | Unit 2 | |
|--|-------------|-----------|---------|-----------|---------|
| Emission Unit | | Unit 1 | | Unit 2 | |
| <u>Location</u> | | | | | |
| UTM Coordinates ^a | | | | | |
| East | km | 334.30 | | 334.30 | |
| North | km | 3,204.50 | | 3,204.50 | |
| Zone | | 17 | | 17 | |
| Lambert Conformal Coordinates ^a | | | | | |
| x | km | 1,398.50 | | 1,398.50 | |
| y | km | -1,116.10 | | -1,116.10 | |
| <u>Stack Data</u> | | | | | |
| Height | ft (m) | 499 | (152.1) | 502 | (153.0) |
| Diameter | ft (m) | 15 | (4.57) | 16.0 | (4.88) |
| Base elevation | ft (m) | 3.3 | (1.00) | 3.3 | (1.00) |
| Hourly heat input ^b | MMBtu/hr | 3630.0 - | | 4390.0 - | |
| <u>Operating Data</u> | | | | | |
| Exit gas temperature | °F (K) | 291 | (417) | 300 | (422) |
| Exit gas velocity | ft/s (m/s) | 132.7 | (40.5) | 160.0 | (48.8) |
| <u>Emission Data^{c,d,e,f}</u> | | | | | |
| SO ₂ | lb/hr (g/s) | 4,356.0 | (548.9) | 5,268.0 | (663.8) |
| NO _x | lb/hr (g/s) | 1,601.2 | (201.7) | 2,913.0 | (367.0) |
| PM Filterable | lb/hr (g/s) | 140.8 | (17.7) | 115.2 | (14.5) |
| SO ₄ | lb/hr (g/s) | 33.6 | (4.2) | 40.7 | (5.1) |

Notes:

- a. Based on common location using UTM coordinates of:

| | |
|-------|------------|
| East | 567.4 km |
| North | 2,813.5 km |
- b. Hourly heat input for each unit corresponds to the maximum hourly PM emissions for 2001 - 2006.
- c. SO₂ emissions calculated based on vendor SO₂ emission factor and hourly heat input
- d. NO_x emissions data based on CEMS data for 2001 - 2003.
- e. PM filterable emissions data based on monitoring data from 2001 - 2006.
- f. SO₄ emissions data calculated based on 0.8% conversion of sulfur to H₂SO₄ and 37% removal of H₂SO₄ in electrostatic precipitator (Southern Company methodology).

**TABLE 2B
PM SPECIATION SUMMARY - PEF CRYSTAL RIVER POWER PLANT, UNIT 1
COMPLIANCE COAL, 0.68 WT% SULFUR**

| PM Category | Emission Unit ^a | Units | Total | Coarse PM | Soil (Fine PM) | Elemental Carbon (EC) | Inorganic (as H ₂ SO ₄) | Organic |
|--|-----------------------------------|-------------------|--------------------------------------|------------------------|----------------|-----------------------|--|----------------|
| PM Filterable ^b | Unit 1 | lb/hr % | 140.8 100% | 78.23 56% | 60.27 43% | 2.32 1.6% | NA NA | NA NA |
| PM Condensable ^c | Unit 1 | lb/hr % | 137.94 100% | NA NA | NA NA | NA NA | 33.6 24% | 104.3 76% |
| Total PM ₁₀ (filterable+condensable) | Unit 1 | lb/hr % | 278.8 100% | 78.23 28.1% | 60.27 21.6% | 2.32 0.8% | 33.62 12.1% | 104.3 37.4% |
| Total PM ₁₀ (filterable+Organic Condensable PM) Modeled PM Speciation % (SO ₂ modeled separately) | Unit 1 | lb/hr % | 245.1 100% | 78.23 31.9% | 60.27 24.6% | 2.32 0.9% | 0.0 0.0% | 104.3 42.6% |
| PM Particle Size Distribution for CALPUFF Assessment | | | | | | | | |
| Species Name | Size Distribution by Category (%) | | | | | Emission Rate (lb/hr) | | |
| | AP-42 (Table 1.1-6) | | Cumulative Normalized PM10 (%) | Individual Categories | | Filterable | Organic Condensable | Total |
| Particle Size (microns) | Cumulative (%) | Filterable (%) | | Organic Condensable | | | | |
| Total PM ₁₀ | | | | | | 140.8 | 104.3 | 245.1 |
| PM0063 | 0.63 | 18.5% | 33.3% | 33.3% | 50.0% | 46.9 | 52.2 | 99.0 |
| PM0100 | 1 | 0.0% | 0.0% | 0.0% | 50.0% | 0.0 | 52.2 | 52.2 |
| PM0125 | 1.25 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM0250 | 2.5 | 25.9% | 46.6% | 13.3% | 0 | 18.7 | 0.0 | 18.7 |
| PM0600 | 6 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM1000 | 10 | 55.6% | 100.0% | 53.4% | 0 | 75.2 | 0.0 | 75.2 |
| Totals | | | | 100.0% | 100.0% | 140.8 | 104.3 | 245.1 |
| Total Modeled PM ₁₀ | | | | | | | | 245.1 |

^a Heat input rate for unit and fuel heat content

3,630 MMBtu/hr
0.68 sulfur content (%)

3,630 Unit 1

^b PM fine consists of PM soil and PM elemental carbon
PM fine based on ratio of PM2.5 (fine) to PM10 (filterable)
emission factor (Table 1.1-5, AP-42)

lb/1000 gal
PM2.5 0.24 lb/ton
PM10 0.54 lb/ton
Ratio = 0.44 PM2.5/PM10

PM elemental carbon based on EPA's "Catalog of Global Emissions Inventories and Emission Inventory Tools for Black Carbon", Table 5, January 2002 DRAFT
0.037 of PM2.5

PM elemental carbon 0.016 PM elemental carbon/PM10
PM soil= PM2.5 - PM elemental carbon 0.43 PM soil/PM10
PM2.5 0.44 PM2.5/PM10
PM coarse= PM10 - PM2.5

^c Condensable PM (Table 1.1-6, AP-42)

Total lb/MMBtu
0.1 x S - 0.03
0.04

TABLE 2B (CONTINUED)
PM SPECIATION SUMMARY - PEF CRYSTAL RIVER POWER PLANT, UNIT 2
COMPLIANCE COAL, 0.68 WT% SULFUR

| PM Category | Emission Unit ^a | Units | Total | Coarse PM | Soil (Fine PM) | Elemental Carbon (EC) | Inorganic (as H ₂ SO ₄) | Organic |
|--|-----------------------------------|----------------|---------------------|-----------------------|---------------------|--------------------------------------|--|-----------------|
| PM Filterable ^b | Unit 1 | lb/hr % | 115.2 100% | 64.00 56% | 49.31 43% | 1.89 1.6% | NA NA | NA NA |
| PM Condensable ^c | Unit 1 | lb/hr % | 166.82 100% | NA NA | NA NA | NA NA | 40.7 24% | 126.2 76% |
| Total PM ₁₀ (filterable+condensable) | Unit 1 | lb/hr % | 282.0 100% | 64.00 22.7% | 49.31 17.5% | 1.89 0.7% | 40.7 14.4% | 126.2 44.7% |
| Total PM ₁₀ (filterable+Organic Condensable PM) Modeled PM Speciation % (SO ₄ modeled separately) | Unit 1 | lb/hr % | 241.4 100% | 64.00 26.5% | 49.31 20.4% | 1.89 0.8% | 0.0 0.0% | 126.16 52.3% |
| PM Particle Size Distribution for CALPUFF Assessment | | | | | | | | |
| Species | Size Distribution by Category (%) | | | | | Emission Rate (lb/hr) | | |
| | AP-42 (Table 1.1-6) | | Cumulative | Individual Categories | | Filterable | Organic Condensable | Total |
| Name | Particle Size (microns) | Cumulative (%) | Normalized PM10 (%) | Filterable (%) | Organic Condensable | | | |
| Total PM ₁₀ | | | | | | 115.2 | 126.2 | 241.4 |
| PM0063 | 0.63 | 18.5% | 33.3% | 33.3% | 50.0% | 38.3 | 63.1 | 101.4 |
| PM0100 | 1 | 0.0% | 0.0% | 0.0% | 50.0% | 0.0 | 63.1 | 63.1 |
| PM0125 | 1.25 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM0250 | 2.5 | 25.9% | 46.6% | 13.3% | 0 | 15.3 | 0.0 | 15.3 |
| PM0600 | 6 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM1000 | 10 | 55.6% | 100.0% | 53.4% | 0 | 61.5 | 0.0 | 61.5 |
| Totals | | | | 100.0% | 100.0% | 115.2 | 126.2 | 241.4 |
| | | | | | | Total Modeled PM ₁₀ 241.4 | | |

^a Heat input rate for unit and fuel heat content

4,390 MMBtu/hr
0.68 sulfur content (%) 4,390 Unit 1

^b PM fine consists of PM soil and PM elemental carbon
PM fine based on ratio of PM2.5 (fine) to PM10 (filterable)
emission factor (Table 1.1-5, AP-42)

lb/1000 gal
PM2.5 0.24 lb/ton Ratio = 0.44 PM2.5/PM10
PM10 0.54 lb/ton

PM elemental carbon based on EPA's "Catalog of Global Emissions Inventories and Emission Inventory Tools for Black Carbon", Table 5, January 2002 DRAFT
0.037 of PM2.5

PM elemental carbon 0.016 PM elemental carbon/PM10
PM soil= PM2.5 - PM elemental carbon 0.43 PM soil/PM10
PM2.5 0.44 PM2.5/PM10
PM coarse= PM10 - PM2.5

^c Condensable PM (Table 1.1-6, AP-42)

Total lb/MMBtu
0.1 x S - 0.03
0.04



**TABLE 3B
SUMMARY OF COMPLIANCE COAL MODELING RESULTS WITH NEW IMPROVE ALGORITHM
CRYSTAL RIVER POWER PLANT - UNITS 1 AND 2 - COAL FIRING**

| Class I Area | Distance (km) of Source to Nearest Class I Area Boundary | Visibility Impact >0.5 dv | | | | | | |
|---|---|--|--|--|--|--|-------|--|
| | | 2001 | | 2002 | | 2003 | | 22 nd Highest Impact (dv) Over 3-Yr Period |
| | | 8 th Highest Impact (dv) | 8 th Highest Impact (dv) | 8 th Highest Impact (dv) | 8 th Highest Impact (dv) | 8 th Highest Impact (dv) | | |
| Saint Marks NWA <i>Pollutant Contribution</i> | 174 | | | | | | | 2.66 |
| | | Sulfate | 2.89 | Sulfate | 2.22 | Sulfate | 2.67 | |
| | | Nitrate | 64.1% | Nitrate | 95.6% | Nitrate | 80.0% | |
| | | Particulate Matter | 33.6% | Particulate Matter | 2.7% | Particulate Matter | 16.1% | |
| | | | 2.2% | | 1.7% | | 3.8% | |
| Chassahowitzka NWA <i>Pollutant Contribution</i> | 21 | | | | | | | 4.97 |
| | | Sulfate | 5.52 | Sulfate | 5.22 | Sulfate | 4.62 | |
| | | Nitrate | 86.3% | Nitrate | 81.4% | Nitrate | 78.8% | |
| | | Particulate Matter | 11.5% | Particulate Matter | 11.8% | Particulate Matter | 16.3% | |
| | | | 2.2% | | 6.8% | | 4.8% | |
| Wolf Island NWA <i>Pollutant Contribution</i> | 293 | | | | | | | 0.95 |
| | | Sulfate | 0.76 | Sulfate | 0.79 | Sulfate | 1.11 | |
| | | Nitrate | 95.5% | Nitrate | 81.2% | Nitrate | 63.5% | |
| | | Particulate Matter | 3.7% | Particulate Matter | 17.3% | Particulate Matter | 34.6% | |
| | | | 0.8% | | 1.5% | | 1.9% | |
| Okefenokee NWA <i>Pollutant Contribution</i> | 178 | | | | | | | 1.71 |
| | | Sulfate | 1.64 | Sulfate | 1.81 | Sulfate | 1.39 | |
| | | Nitrate | 66.5% | Nitrate | 90.2% | Nitrate | 81.1% | |
| | | Particulate Matter | 27.4% | Particulate Matter | 6.4% | Particulate Matter | 16.5% | |
| | | | 6.1% | | 3.4% | | 2.4% | |

**TABLE 4B
 VISIBILITY IMPACT RANKINGS AT PSD CLASS I AREAS
 WITH NEW IMPROVE ALGORITHM, COMPLIANCE COAL ANALYSIS
 CRYSTAL RIVER POWER PLANT - UNITS 1 AND 2**

| Class I Area | Rank | 2001 | 2002 | 2003 |
|--------------------|------|-----------------------|-----------------------|-----------------------|
| | | Predicted Impact (dv) | Predicted Impact (dv) | Predicted Impact (dv) |
| Saint Marks NWA | 1 | 5.61 | 5.63 | 3.46 |
| | 2 | 4.33 | 4.00 | 3.33 |
| | 3 | 4.01 | 2.74 | 3.24 |
| | 4 | 3.62 | 2.68 | 3.05 |
| | 5 | 3.10 | 2.32 | 3.02 |
| | 6 | 2.94 | 2.24 | 2.97 |
| | 7 | 2.91 | 2.23 | 2.91 |
| | 8 | 2.89 | 2.22 | 2.67 |
| Chassahowitzka NWA | 1 | 7.51 | 7.08 | 6.49 |
| | 2 | 6.94 | 6.96 | 6.41 |
| | 3 | 6.80 | 6.03 | 5.75 |
| | 4 | 6.68 | 6.00 | 5.31 |
| | 5 | 6.13 | 5.81 | 4.95 |
| | 6 | 5.95 | 5.36 | 4.95 |
| | 7 | 5.94 | 5.27 | 4.63 |
| | 8 | 5.52 | 5.22 | 4.62 |
| Wolf Island NWA | 1 | 2.11 | 2.36 | 1.66 |
| | 2 | 1.50 | 1.83 | 1.63 |
| | 3 | 1.34 | 1.35 | 1.59 |
| | 4 | 0.96 | 1.15 | 1.49 |
| | 5 | 0.93 | 1.04 | 1.34 |
| | 6 | 0.88 | 1.04 | 1.23 |
| | 7 | 0.87 | 0.82 | 1.18 |
| | 8 | 0.76 | 0.79 | 1.11 |
| Okefenokee NWA | 1 | 3.00 | 3.14 | 2.96 |
| | 2 | 2.74 | 2.94 | 2.66 |
| | 3 | 2.27 | 2.13 | 2.51 |
| | 4 | 1.93 | 2.09 | 2.29 |
| | 5 | 1.85 | 1.90 | 2.12 |
| | 6 | 1.84 | 1.89 | 1.78 |
| | 7 | 1.71 | 1.82 | 1.78 |
| | 8 | 1.64 | 1.81 | 1.39 |

**TABLE 1C
BART MODELING DATA INPUT
CRYSTAL RIVER POWER PLANT, UNITS 1 & 2
POWDER RIVER BASIN COAL, 0.35 WEIGHT % SULFUR**

| Parameter | Units | Value | |
|--|-------------|-----------------|-----------------|
| Emission Unit | | Unit 1 | Unit 2 |
| <u>Location</u> | | | |
| UTM Coordinates ^a | | | |
| East | km | 334.30 | 334.30 |
| North | km | 3,204.50 | 3,204.50 |
| Zone | | 17 | 17 |
| Lambert Conformal Coordinates ^a | | | |
| x | km | 1,398.50 | 1,398.50 |
| y | km | -1,116.10 | -1,116.10 |
| <u>Stack Data</u> | | | |
| Height | ft (m) | 499 (152.1) | 502 (153.0) |
| Diameter | ft (m) | 15 (4.57) | 16.0 (4.88) |
| Base elevation | ft (m) | 3.3 (1.00) | 3.3 (1.00) |
| Hourly heat input ^b | MMBtu/hr | 3630.0 - | 4390.0 - |
| <u>Operating Data</u> | | | |
| Exit gas temperature | °F (K) | 291 (417) | 300 (422) |
| Exit gas velocity | ft/s (m/s) | 132.7 (40.5) | 160.0 (48.8) |
| <u>Emission Data^{c,d,e,f}</u> | | | |
| SO ₂ | lb/hr (g/s) | 2,904.0 (365.9) | 3,512.0 (442.5) |
| NO _x | lb/hr (g/s) | 1,601.2 (201.7) | 2,913.0 (367.0) |
| PM Filterable | lb/hr (g/s) | 140.8 (17.7) | 115.2 (14.5) |
| SO ₄ | lb/hr (g/s) | 23.1 (2.9) | 27.9 (3.5) |

Notes:

- a. Based on common location using UTM coordinates of:

| | |
|-------|------------|
| East | 567.4 km |
| North | 2,813.5 km |
- b. Hourly heat input for each unit corresponds to the maximum hourly PM emissions for 2001 - 2006.
- c. SO₂ emissions calculated based on vendor SO₂ emission factor and hourly heat input
- d. NO_x emissions data based on CEMS data for 2001 - 2003.
- e. PM filterable emissions data based on monitoring data from 2001 - 2006.
- f. SO₄ emissions data calculated based on 0.8% conversion of sulfur to H₂SO₄ and 37% removal of H₂SO₄ in electrostatic precipitator (Southern Company methodology).

**TABLE 2C
PM SPECIATION SUMMARY - PEF CRYSTAL RIVER POWER PLANT, UNIT 1
POWDER RIVER BASIN (PRB) COAL, 0.35 WEIGHT % SULFUR**

| PM Category | Emission Unit ^a | Units | Total | Coarse PM | Soil (Fine PM) | Elemental Carbon (EC) | Inorganic (as H ₂ SO ₄) | Organic |
|--|-----------------------------------|----------------|--------------------------------|-----------------------|----------------|--------------------------------------|--|--------------|
| PM Filterable ^b | Unit 1 | lb/hr % | 140.8 100% | 78.23 56% | 60.27 43% | 2.32 1.6% | NA NA | NA NA |
| PM Condensable ^c | Unit 1 | lb/hr % | 36.30 100% | NA NA | NA NA | NA NA | 23.1 64% | 13.2 36% |
| Total PM ₁₀ (filterable+condensable) | Unit 1 | lb/hr % | 177.1 100% | 78.23 44.2% | 60.27 34.0% | 2.32 1.3% | 23.07 13.0% | 13.2 7.5% |
| Total PM ₁₀ (filterable+Organic Condensable PM) Modeled PM Speciation % (SO ₄ modeled separately) | Unit 1 | lb/hr % | 154.0 100% | 78.23 50.8% | 60.27 39.1% | 2.32 1.5% | 0.0 0.0% | 13.2 8.6% |
| PM Particle Size Distribution for CALPUFF Assessment | | | | | | | | |
| Species Name | Size Distribution by Category (%) | | | | | Emission Rate (lb/hr) | | |
| | AP-42 (Table 1.1-6) | | Cumulative Normalized PM10 (%) | Individual Categories | | Filterable | Organic Condensable | Total |
| Particle Size (microns) | Cumulative (%) | Filterable (%) | | Organic Condensable | | | | |
| Total PM ₁₀ | | | | | | 140.8 | 13.2 | 154.0 |
| PM0063 | 0.63 | 18.5% | 33.3% | 33.3% | 50.0% | 46.9 | 6.6 | 53.5 |
| PM0100 | 1 | 0.0% | 0.0% | 0.0% | 50.0% | 0.0 | 6.6 | 6.6 |
| PM0125 | 1.25 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM0250 | 2.5 | 25.9% | 46.6% | 13.3% | 0 | 18.7 | 0.0 | 18.7 |
| PM0600 | 6 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM1000 | 10 | 55.6% | 100.0% | 53.4% | 0 | 75.2 | 0.0 | 75.2 |
| Totals | | | | 100.0% | 100.0% | 140.8 | 13.2 | 154.0 |
| | | | | | | Total Modeled PM ₁₀ 154.0 | | |

^a Heat input rate for unit and fuel heat content

3,630 MMBtu/hr
0.35 sulfur content (%) 3,630 Unit 1

^b PM fine consists of PM soil and PM elemental carbon
PM fine based on ratio of PM2.5 (fine) to PM10 (filterable)
emission factor (Table 1.1-5, AP-42)

lb/1000 gal
PM2.5 0.24 lb/ton
PM10 0.54 lb/ton
Ratio = 0.44 PM2.5/PM10

PM elemental carbon based on EPA's "Catalog of Global Emissions Inventories and Emission Inventory Tools for Black Carbon", Table 5, January 2002 DRAFT
0.037 of PM2.5

PM elemental carbon 0.016 PM elemental carbon/PM10
PM soil= PM2.5 - PM elemental carbon 0.43 PM soil/PM10
PM2.5 0.44 PM2.5/PM10
PM coarse= PM10 - PM2.5

^c Condensable PM (Table 1.1-6, AP-42)

lb/MMBtu
0.010 for sulfur content =< 0.4% wt

TABLE 2C (CONTINUED)
PM SPECIATION SUMMARY - PEF CRYSTAL RIVER POWER PLANT, UNIT 2
POWDER RIVER BASIN (PRB) COAL, 0.35 WEIGHT % SULFUR

| PM Category | Emission Unit ^a | Units | Total | Coarse PM | Soil (Fine PM) | Elemental Carbon (EC) | Inorganic (as H ₂ SO ₄) | Organic |
|--|----------------------------|------------|---------------|----------------|----------------|-----------------------|--|---------------|
| PM Filterable ^b | Unit 1 | lb/hr % | 115.2 100% | 64.00 56% | 49.31 43% | 1.89 1.6% | NA NA | NA NA |
| PM Condensable ^c | Unit 1 | lb/hr % | 43.90 100% | NA NA | NA NA | NA NA | 27.9 64% | 16.0 36% |
| Total PM ₁₀ (filterable+condensable) | Unit 1 | lb/hr % | 159.1 100% | 64.00 40.2% | 49.31 31.0% | 1.89 1.2% | 27.9 17.5% | 16.0 10.1% |
| Total PM ₁₀ (filterable+Organic Condensable PM) Modeled PM Speciation % (SO ₄ modeled separately) | Unit 1 | lb/hr % | 131.2 100% | 64.00 48.8% | 49.31 37.6% | 1.89 1.4% | 0.0 0.0% | 16.0 12.2% |

PM Particle Size Distribution for CALPUFF Assessment

| Species Name | Size Distribution by Category (%) | | | | | Emission Rate (lb/hr) | | |
|--------------------------------|-----------------------------------|----------------|--------------------------------|-----------------------|---------------------|-----------------------|---------------------|-------|
| | AP-42 (Table 1.1-6) | | Cumulative Normalized PM10 (%) | Individual Categories | | Filterable | Organic Condensable | Total |
| | Particle Size (microns) | Cumulative (%) | | Filterable (%) | Organic Condensable | | | |
| Total PM ₁₀ | | | | | | 115.2 | 16.0 | 131.2 |
| PM0063 | 0.63 | 18.5% | 33.3% | 33.3% | 50.0% | 38.3 | 8.0 | 46.3 |
| PM0100 | 1 | 0.0% | 0.0% | 0.0% | 50.0% | 0.0 | 8.0 | 8.0 |
| PM0125 | 1.25 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM0250 | 2.5 | 25.9% | 46.6% | 13.3% | 0 | 15.3 | 0.0 | 15.3 |
| PM0600 | 6 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM1000 | 10 | 55.6% | 100.0% | 53.4% | 0 | 61.5 | 0.0 | 61.5 |
| Totals | | | | 100.0% | 100.0% | 115.2 | 16.0 | 131.2 |
| Total Modeled PM ₁₀ | | | | | | | | 131.2 |

^a Heat input rate for unit and fuel heat content

4,390 MMBtu/hr
0.35 sulfur content (%)

4,390 Unit 1

^b PM fine consists of PM soil and PM elemental carbon
 PM fine based on ratio of PM2.5 (fine) to PM10 (filterable)
 emission factor (Table 1.1-5, AP-42)

lb/1000 gal
 0.24 lb/ton
 0.54 lb/ton

Ratio = 0.44 PM2.5/PM10

PM elemental carbon based on EPA's "Catalog of Global Emissions Inventories and Emission Inventory Tools for Black Carbon", Table 5, January 2002 DRAFT
 0.037 of PM2.5

PM elemental carbon 0.016 PM elemental carbon/PM10
 PM soil= PM2.5 - PM elemental carbon 0.43 PM soil/PM10
 PM2.5 0.44 PM2.5/PM10
 PM coarse= PM10 - PM2.5

^c Condensable PM (Table 1.1-6, AP-42)

lb/MMBtu
 0.010 for sulfur content <= 0.4% wt



**TABLE 3C
SUMMARY OF PRB COAL MODELING RESULTS WITH NEW IMPROVE ALGORITHM
CRYSTAL RIVER POWER PLANT - UNITS 1 AND 2 - COAL FIRING**

| Class I Area | Distance (km) of Source to Nearest Class I Area Boundary | Visibility Impact >0.5 dv | | | | | | 22 nd Highest Impact (dv) Over 3-Yr Period |
|---|---|--|-------|--|-------|--|-------|--|
| | | 2001 | | 2002 | | 2003 | | |
| | | 8 th Highest Impact (dv) | | 8 th Highest Impact (dv) | | 8 th Highest Impact (dv) | | |
| Saint Marks NWA <i>Pollutant Contribution</i> | 174 | | 2.17 | | 1.60 | | 1.95 | 1.90 |
| | | Sulfate | 45.0% | Sulfate | 81.4% | Sulfate | 75.3% | |
| | | Nitrate | 53.7% | Nitrate | 17.6% | Nitrate | 22.9% | |
| Chassahowitzka NWA <i>Pollutant Contribution</i> | 21 | Particulate Matter | 1.3% | Particulate Matter | 1.0% | Particulate Matter | 1.8% | 3.92 |
| | | Sulfate | 4.15 | Sulfate | 3.79 | Sulfate | 3.43 | |
| | | Nitrate | 78.6% | Nitrate | 79.7% | Nitrate | 74.3% | |
| Wolf Island NWA <i>Pollutant Contribution</i> | 293 | Particulate Matter | 20.4% | Particulate Matter | 17.0% | Particulate Matter | 23.5% | 0.66 |
| | | Sulfate | 1.0% | Sulfate | 3.3% | Sulfate | 2.3% | |
| | | Nitrate | 0.59 | Nitrate | 0.56 | Nitrate | 0.85 | |
| Okefenokee NWA <i>Pollutant Contribution</i> | 178 | Particulate Matter | 42.7% | Particulate Matter | 94.9% | Particulate Matter | 72.3% | 1.23 |
| | | Sulfate | 54.8% | Sulfate | 4.7% | Sulfate | 26.1% | |
| | | Nitrate | 2.5% | Nitrate | 0.4% | Nitrate | 1.6% | |
| Okefenokee NWA <i>Pollutant Contribution</i> | 178 | Sulfate | 1.23 | Sulfate | 1.25 | Sulfate | 1.01 | 1.23 |
| | | Nitrate | 60.1% | Nitrate | 92.6% | Nitrate | 75.8% | |
| | | Particulate Matter | 37.3% | Particulate Matter | 6.6% | Particulate Matter | 23.2% | |
| | | Particulate Matter | 2.5% | Particulate Matter | 0.8% | Particulate Matter | 1.0% | |

**TABLE 4C
VISIBILITY IMPACT RANKINGS AT PSD CLASS I AREAS
WITH NEW IMPROVE ALGORITHM, PRB COAL ANALYSIS
CRYSTAL RIVER POWER PLANT - UNITS 1 AND 2**

| Class I Area | Rank | 2001 | 2002 | 2003 |
|--------------------|------|-----------------------|-----------------------|-----------------------|
| | | Predicted Impact (dv) | Predicted Impact (dv) | Predicted Impact (dv) |
| Saint Marks NWA | 1 | 4.13 | 4.32 | 2.56 |
| | 2 | 3.31 | 3.03 | 2.40 |
| | 3 | 3.14 | 1.90 | 2.25 |
| | 4 | 2.69 | 1.89 | 2.13 |
| | 5 | 2.29 | 1.76 | 2.12 |
| | 6 | 2.24 | 1.62 | 2.09 |
| | 7 | 2.18 | 1.60 | 2.07 |
| | 8 | 2.17 | 1.60 | 1.95 |
| Chassahowitzka NWA | 1 | 5.63 | 5.56 | 4.87 |
| | 2 | 5.16 | 5.21 | 4.72 |
| | 3 | 5.15 | 4.76 | 4.29 |
| | 4 | 4.95 | 4.43 | 3.94 |
| | 5 | 4.57 | 4.38 | 3.92 |
| | 6 | 4.55 | 4.11 | 3.55 |
| | 7 | 4.30 | 3.93 | 3.49 |
| | 8 | 4.15 | 3.79 | 3.43 |
| Wolf Island NWA | 1 | 1.46 | 1.69 | 1.29 |
| | 2 | 1.11 | 1.26 | 1.11 |
| | 3 | 0.93 | 0.93 | 1.11 |
| | 4 | 0.66 | 0.82 | 1.02 |
| | 5 | 0.63 | 0.82 | 0.91 |
| | 6 | 0.60 | 0.79 | 0.87 |
| | 7 | 0.60 | 0.57 | 0.86 |
| | 8 | 0.59 | 0.56 | 0.85 |
| Okefenokee NWA | 1 | 2.09 | 2.39 | 2.08 |
| | 2 | 2.08 | 2.16 | 1.95 |
| | 3 | 1.59 | 1.60 | 1.73 |
| | 4 | 1.37 | 1.45 | 1.68 |
| | 5 | 1.37 | 1.40 | 1.47 |
| | 6 | 1.34 | 1.29 | 1.26 |
| | 7 | 1.32 | 1.26 | 1.22 |
| | 8 | 1.23 | 1.25 | 1.01 |

**TABLE 1D
BART MODELING DATA INPUT
CRYSTAL RIVER POWER PLANT, UNITS 1 & 2
WITH FLUE GAS DESULFURIZATION (FGD) UNIT**

| Parameter | Units | Unit 1 | | Unit 2 | |
|--|-------------|-----------|---------|-----------|---------|
| Emission Unit | | Unit 1 | | Unit 2 | |
| <u>Location</u> | | | | | |
| UTM Coordinates ^a | | | | | |
| East | km | 334.30 | | 334.30 | |
| North | km | 3,204.50 | | 3,204.50 | |
| Zone | | 17 | | 17 | |
| Lambert Conformal Coordinates ^a | | | | | |
| x | km | 1,398.50 | | 1,398.50 | |
| y | km | -1,116.10 | | -1,116.10 | |
| <u>Stack Data</u> | | | | | |
| Height | ft (m) | 499 | (152.1) | 502 | (153.0) |
| Diameter | ft (m) | 15 | (4.57) | 16.0 | (4.88) |
| Base elevation | ft (m) | 3.3 | (1.00) | 3.3 | (1.00) |
| Hourly heat input ^b | MMBtu/hr | 3630.0 - | | 4390.0 - | |
| <u>Operating Data</u> | | | | | |
| Exit gas temperature | °F (K) | 291 | (417) | 300 | (422) |
| Exit gas velocity | ft/s (m/s) | 132.7 | (40.5) | 160.0 | (48.8) |
| FGD unit control efficiency | % | 95.0 - | | 95.0 - | |
| <u>Emission Data^{c,d,e,f}</u> | | | | | |
| SO ₂ | lb/hr (g/s) | 361.9 | (45.6) | 448.4 | (56.5) |
| NO _x | lb/hr (g/s) | 1,601.2 | (201.7) | 2,913.0 | (367.0) |
| PM Filterable | lb/hr (g/s) | 140.8 | (17.7) | 115.2 | (14.5) |
| SO ₄ | lb/hr (g/s) | 50.4 | (6.4) | 61.0 | (7.7) |

Notes:

- a. Based on common location using UTM coordinates of:

| | |
|-------|------------|
| East | 567.4 km |
| North | 2,813.5 km |
- b. Hourly heat input for each unit corresponds to the maximum hourly PM emissions for 2001 - 2006.
- c. SO₂ emissions calculated based on vendor SO₂ emission factor, hourly heat input and FGD control efficiency
- d. NO_x emissions data based on CEMS data for 2001 - 2003.
- e. PM filterable emissions data based on monitoring data from 2001 - 2006.
- f. SO₄ emissions data calculated based on 0.8% conversion of sulfur to H₂SO₄ and 37% removal of H₂SO₄ in electrostatic precipitator (Southern Company methodology).

**TABLE 2D
PM SPECIATION SUMMARY - PEF CRYSTAL RIVER POWER PLANT, UNIT 1
FLUE GAS DESULFURIZATION UNIT SCENARIO, 95% SO₂ EMISSIONS CONTROL**

| PM Category | Emission Unit ^a | Units | Total | Coarse PM | Soil (Fine PM) | Elemental Carbon (EC) | Inorganic (as H ₂ SO ₄) | Organic |
|--|----------------------------|------------|----------------|----------------|----------------|-----------------------|--|----------------|
| PM Filterable ^b | Unit 1 | lb/hr % | 140.8 100% | 78.23 56% | 60.27 43% | 2.32 1.6% | NA NA | NA NA |
| PM Condensable ^c | Unit 1 | lb/hr % | 283.14 100% | NA NA | NA NA | NA NA | 50.4 18% | 232.7 82% |
| Total PM ₁₀ (filterable+condensable) | Unit 1 | lb/hr % | 424.0 100% | 78.23 18.5% | 60.27 14.2% | 2.32 0.5% | 50.43 11.9% | 232.7 54.9% |
| Total PM ₁₀ (filterable+Organic Condensable PM) Modeled PM Speciation % (SO ₄ modeled separately) | Unit 1 | lb/hr % | 373.5 100% | 78.23 20.9% | 60.27 16.1% | 2.32 0.6% | 0.0 0.0% | 232.7 62.3% |

PM Particle Size Distribution for CALPUFF Assessment

| Species Name | Size Distribution by Category (%) | | | | | Emission Rate (lb/hr) | | |
|------------------------|--|----------------|--------------------------------|---|-------------------------|--|---------------------|-------|
| | AP-42 (Table 1.1-6) Particle Size (microns) | Cumulative (%) | Cumulative Normalized PM10 (%) | Individual Categories Filterable (%) | Organic Condensable (%) | Filterable | Organic Condensable | Total |
| Total PM ₁₀ | | | | | | 140.8 | 232.7 | 373.5 |
| PM0063 | 0.63 | 18.5% | 33.3% | 33.3% | 50.0% | 46.9 | 116.4 | 163.2 |
| PM0100 | 1 | 0.0% | 0.0% | 0.0% | 50.0% | 0.0 | 116.4 | 116.4 |
| PM0125 | 1.25 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM0250 | 2.5 | 25.9% | 46.6% | 13.3% | 0 | 18.7 | 0.0 | 18.7 |
| PM0600 | 6 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM1000 | 10 | 55.6% | 100.0% | 53.4% | 0 | 75.2 | 0.0 | 75.2 |
| Totals | | | | 100.0% | 100.0% | 140.8 | 232.7 | 373.5 |
| | | | | | | Total Modeled PM ₁₀ = 373.5 | | |

^a Heat input rate for unit and fuel heat content
1.08 sulfur content (%)

3,630 MMBtu/hr
3,630 Unit 1

^b PM fine consists of PM soil and PM elemental carbon
PM fine based on ratio of PM2.5 (fine) to PM10 (filterable)
emission factor (Table 1.1-5, AP-42)

lb/1000 gal
PM2.5 0.24 lb/ton
PM10 0.54 lb/ton

Ratio = 0.44 PM2.5/PM10

PM elemental carbon based on EPA's "Catalog of Global Emissions Inventories and Emission Inventory Tools for Black Carbon", Table 5, January 2002 DRAFT
0.037 of PM2.5

PM elemental carbon 0.016 PM elemental carbon/PM10
PM soil= PM2.5 - PM elemental carbon 0.43 PM soil/PM10
PM2.5 0.44 PM2.5/PM10
PM coarse= PM10 - PM2.5

lb/MMBtu
0.1 x S - 0.03
0.08

^c Condensable PM (Table 1.1-6, AP-42)

Total

TABLE 2D (CONTINUED)
PM SPECIATION SUMMARY - PEF CRYSTAL RIVER POWER PLANT, UNIT 2
FLUE GAS DESULFURIZATION UNIT SCENARIO, 95% SO₂ EMISSIONS CONTROL

| PM Category | Emission Unit ^a | Units | Total | Coarse PM | Soil (Fine PM) | Elemental Carbon (EC) | Inorganic (as H ₂ SO ₄) | Organic |
|--|----------------------------|-------|--------|-----------|----------------|-----------------------|--|---------|
| PM Filterable ^b | Unit 1 | lb/hr | 115.2 | 64.00 | 49.31 | 1.89 | NA | NA |
| | | % | 100% | 56% | 43% | 1.6% | NA | NA |
| PM Condensable ^c | Unit 1 | lb/hr | 342.42 | NA | NA | NA | 61.0 | 281.4 |
| | | % | 100% | NA | NA | NA | 18% | 82% |
| Total PM ₁₀ (filterable+condensable) | Unit 1 | lb/hr | 457.6 | 64.00 | 49.31 | 1.89 | 61.0 | 281.4 |
| | | % | 100% | 14.0% | 10.8% | 0.4% | 13.3% | 61.5% |
| Total PM ₁₀ (filterable+Organic Condensable PM) Modeled PM Speciation % (SO ₄ modeled separately) | Unit 1 | lb/hr | 396.6 | 64.00 | 49.31 | 1.89 | 0.0 | 281.44 |
| | | % | 100% | 16.1% | 12.4% | 0.5% | 0.0% | 71.0% |

PM Particle Size Distribution for CALPUFF Assessment

| Species | Size Distribution by Category (%) | | | | | Emission Rate (lb/hr) | | |
|------------------------|-----------------------------------|----------------|---------------------|-----------------------|-------------------------|--|---------------------|-------|
| | AP-42 (Table 1.1-6) | | | Individual Categories | | Filterable | Organic Condensable | Total |
| | Particle Size (microns) | Cumulative (%) | Normalized PM10 (%) | Filterable (%) | Organic Condensable (%) | | | |
| Total PM ₁₀ | | | | | | 115.2 | 281.4 | 396.6 |
| PM0063 | 0.63 | 18.5% | 33.3% | 33.3% | 50.0% | 38.3 | 140.7 | 179.0 |
| PM0100 | 1 | 0.0% | 0.0% | 0.0% | 50.0% | 0.0 | 140.7 | 140.7 |
| PM0125 | 1.25 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM0250 | 2.5 | 25.9% | 46.6% | 13.3% | 0 | 15.3 | 0.0 | 15.3 |
| PM0600 | 6 | 0.0% | 0.0% | 0.0% | 0 | 0.0 | 0.0 | 0.0 |
| PM1000 | 10 | 55.6% | 100.0% | 53.4% | 0 | 61.5 | 0.0 | 61.5 |
| Totals | | | | 100.0% | 100.0% | 115.2 | 281.4 | 396.6 |
| | | | | | | Total Modeled PM ₁₀ 396.6 | | |

^a Heat input rate for unit and fuel heat content

4,390 MMBtu/hr
1.08 sulfur content (%)

^b PM fine consists of PM soil and PM elemental carbon
PM fine based on ratio of PM2.5 (fine) to PM10 (filterable)
emission factor (Table 1.1-5, AP-42)

lb/1000 gal

| | | | |
|-------|-------------|---------|-----------------|
| PM2.5 | 0.24 lb/ton | Ratio = | 0.44 PM2.5/PM10 |
| PM10 | 0.54 lb/ton | | |

PM elemental carbon based on EPA's "Catalog of Global Emissions Inventories and Emission Inventory Tools for Black Carbon", Table 5, January 2002 DRAFT
0.037 of PM2.5

PM elemental carbon
PM soil= PM2.5 - PM elemental carbon
PM2.5
PM coarse= PM10 - PM2.5

0.016 PM elemental carbon/PM10
0.43 PM soil/PM10
0.44 PM2.5/PM10

^c Condensable PM (Table 1.1-6, AP-42)

lb/MMBtu

| | |
|-------|----------------|
| Total | 0.1 x S - 0.03 |
| | 0.08 |

**TABLE 3D
SUMMARY OF BART FGD UNIT MODELING RESULTS WITH NEW IMPROVE ALGORITHM
CRYSTAL RIVER POWER PLANT - UNITS 1 AND 2 - COAL FIRING**

| Class I Area | Distance (km) of Source to Nearest Class I Area Boundary | Visibility Impact >0.5 dv | | | 22 nd Highest Impact (dv) Over 3-Yr Period |
|---|---|--|--|--|--|
| | | 2001 | 2002 | 2003 | |
| | | 8 th Highest Impact (dv) | 8 th Highest Impact (dv) | 8 th Highest Impact (dv) | |
| Saint Marks NWA <i>Pollutant Contribution</i> | 174 | 1.18 | 0.81 | 0.98 | 0.98 |
| | | Sulfate 25.3% | Sulfate 16.0% | Sulfate 28.7% | |
| | | Nitrate 63.9% | Nitrate 73.1% | Nitrate 54.9% | |
| | | Particulate Matter 10.8% | Particulate Matter 10.9% | Particulate Matter 16.4% | |
| Chassahowitzka NWA <i>Pollutant Contribution</i> | 21 | 3.34 | 4.22 | 4.29 | 3.88 |
| | | Sulfate 25.4% | Sulfate 25.2% | Sulfate 25.3% | |
| | | Nitrate 42.9% | Nitrate 45.6% | Nitrate 42.4% | |
| | | Particulate Matter 31.6% | Particulate Matter 29.2% | Particulate Matter 32.2% | |
| Wolf Island NWA <i>Pollutant Contribution</i> | 293 | 0.24 | 0.29 | 0.31 | 0.30 |
| | | Sulfate 13.7% | Sulfate 38.9% | Sulfate 29.0% | |
| | | Nitrate 75.8% | Nitrate 50.3% | Nitrate 57.9% | |
| | | Particulate Matter 10.5% | Particulate Matter 10.9% | Particulate Matter 13.1% | |
| Okefenokee NWA <i>Pollutant Contribution</i> | 178 | 0.55 | 0.58 | 0.51 | 0.55 |
| | | Sulfate 66.3% | Sulfate 48.4% | Sulfate 20.3% | |
| | | Nitrate 15.5% | Nitrate 16.0% | Nitrate 67.9% | |
| | | Particulate Matter 18.1% | Particulate Matter 35.6% | Particulate Matter 11.8% | |

**TABLE 4D
VISIBILITY IMPACT RANKINGS AT PSD CLASS I AREAS
WITH NEW IMPROVE ALGORITHM, FGD UNIT ANALYSIS
CRYSTAL RIVER POWER PLANT - UNITS 1 AND 2**

| Class I Area | Rank | 2001 | 2002 | 2003 |
|--------------------|------|-----------------------|-----------------------|-----------------------|
| | | Predicted Impact (dv) | Predicted Impact (dv) | Predicted Impact (dv) |
| Saint Marks NWA | 1 | 1.96 | 2.15 | 1.37 |
| | 2 | 1.91 | 1.48 | 1.24 |
| | 3 | 1.83 | 1.34 | 1.16 |
| | 4 | 1.67 | 1.11 | 1.10 |
| | 5 | 1.46 | 0.86 | 1.10 |
| | 6 | 1.41 | 0.82 | 1.05 |
| | 7 | 1.35 | 0.82 | 1.04 |
| | 8 | 1.18 | 0.81 | 0.98 |
| Chassahowitzka NWA | 1 | 5.44 | 7.21 | 5.54 |
| | 2 | 4.96 | 6.97 | 5.25 |
| | 3 | 3.94 | 6.75 | 5.23 |
| | 4 | 3.92 | 6.52 | 4.88 |
| | 5 | 3.88 | 5.81 | 4.42 |
| | 6 | 3.75 | 5.11 | 4.41 |
| | 7 | 3.57 | 4.40 | 4.32 |
| | 8 | 3.34 | 4.22 | 4.29 |
| Wolf Island NWA | 1 | 0.55 | 0.78 | 0.88 |
| | 2 | 0.50 | 0.54 | 0.54 |
| | 3 | 0.42 | 0.42 | 0.49 |
| | 4 | 0.31 | 0.42 | 0.37 |
| | 5 | 0.31 | 0.39 | 0.32 |
| | 6 | 0.30 | 0.37 | 0.32 |
| | 7 | 0.29 | 0.31 | 0.32 |
| | 8 | 0.24 | 0.29 | 0.31 |
| Okefenokee NWA | 1 | 1.04 | 1.19 | 0.94 |
| | 2 | 0.93 | 1.11 | 0.71 |
| | 3 | 0.90 | 1.03 | 0.71 |
| | 4 | 0.67 | 0.80 | 0.65 |
| | 5 | 0.66 | 0.74 | 0.58 |
| | 6 | 0.66 | 0.64 | 0.55 |
| | 7 | 0.61 | 0.59 | 0.53 |
| | 8 | 0.55 | 0.58 | 0.51 |

TABLE 5
SUMMARY OF SO₂ BACT DETERMINATIONS FOR COAL FUEL FIRED LARGE INDUSTRIAL BOILERS (>250 MMBTU/HR) (2007-2012)

| Facility Name | State | Permit Issued | Process Info | Fuel | Heat Input | Control Method | SO ₂ Limit | Basis |
|---|-------|---------------|--|-----------------------------|----------------|---|-----------------------|----------|
| John W. Turk Jr. Power Plant | AR | 11/5/2008 | PC Boiler | PRB Sub-Bit Coal | 6,000 MMBtu/hr | Dry Flue Gas Desulfurization (Spray Dry Absorber) | 0.08 LB/MMBTU | BACT-PSD |
| Ottumwa Generating Station | IA | 2/27/2007 | Boiler #1 | Coal | 6,370 MMBtu/hr | Low Sulfur Coal | 1.2 LB/MMBTU | BACT-PSD |
| J.K. Smith Generating Station | KY | 4/9/2010 | Circulating Fluidized Bed Boiler Cfb1 And CFB2 | Coal | 3,000 MMBtu/hr | Limestone Injection (CFB) and a Flash Dryer Absorber with Fresh Lime Injection | 0.075 LB/MMBTU | BACT-PSD |
| Karn Weadock Generating Complex | MI | 12/29/2009 | Boiler | PRB Coal Or 50/50 Blend | 8,190 MMBtu/hr | Limestone Forced Oxidation, Wet Fluidized Gas Desulfurization (Fgd) and Low Sulfur Coal. | 0.06 LB/MMBTU | BACT-PSD |
| Spiritwood Station | ND | 9/14/2007 | Atmospheric Circulating Fluidized Bed Boiler | Lignite | 1,280 MMBtu/hr | Limestone injection into the unit with a Spray Dryer following. | 0.06 LB/MMBTU | BACT-PSD |
| Smart Papers Holdings, Llc | OH | 1/31/2008 | Pulverized Dry Bottom Boiler | Coal | 420 MMBtu/hr | | 1.7 LB/MMBTU | BACT-PSD |
| Hugo Generating Sta | OK | 2/9/2007 | Coal-Fired Steam EGU Boiler (HU-Unit 2) | | 2,561 MMBtu/hr | Wet Limestone Flue Gas Desulfurization | 0.065 LB/MMBTU | BACT-PSD |
| Sunnyside Ethanol,Llc | PA | 5/7/2007 | CFB Boiler | Coal | 497 MMBtu/hr | Limestone Injection and add on Dry Flue Gas Desulfurization, CEM | 0.2 LB/MMBTU | BACT-PSD |
| Coleto Creek Unit 2 | TX | 5/3/2010 | Coal-Fired Boiler Unit 2 | PRB Coal | 6,670 MMBtu/hr | Spray Dry Adsorber/Fabric Filter | 0.06 LB/MMBTU | BACT-PSD |
| White Stallion Energy Center | TX | 12/16/2010 | CFB Boiler | Coal & Pet Coke | 3,300 MMBtu/hr | "Limestone Bed CFB and Lime Spray Dryer Permit Design Sulfur Content of Ill Basin Coal is 3.9 Wt% and of Pet Coke 4.3 Avg/6.0 Max | 0.114 LB/MMBTU | BACT-PSD |
| Tenaska Trailblazer Energy Center | TX | 12/30/2010 | Coal-Fired Boiler | Sub-Bituminous Coal | 8,307 MMBtu/hr | HI Weighting of Limits Used for Fuel Blending" | 0.06 LB/MMBTU | BACT-PSD |
| Bonanza Power Plant Waste Coal Fired Unit | UT | 8/30/2007 | Circulating Fluidized Bed Boiler, 1445 MMbtu/Hr Waste Coal Fired | Waste Coal/Bituminous Blend | -- -- | Wet Limestone Scrubber | 0.055 LB/MMBTU | BACT-PSD |
| Virginia City Hybrid Energy Center | VA | 6/30/2008 | 2 Circulating Fluidized Bed Boilers | Coal And Coal Refuse | 3,132 MMBtu/hr | | 0.035 LB/MMBTU | BACT-PSD |
| Western Greenbrier Co-Generation, Llc | WV | 4/26/2006 | Circulating Fluidized Bed Boiler (CFB) | Waste Coal | 1,070 MMBtu/hr | Dry SO ₂ Scrubber (Spray Dry Absorber)" | 0.14 LB/MMBTU | BACT-PSD |
| Wygen 3 | WY | 2/5/2007 | PC Boiler | Subbituminous Coal | 1,300 MMBtu/hr | Good Combustion Practices Low Sulfur Content Coal and CEM System | 0.09 LB/MMBTU | BACT-PSD |
| Dry Fork Station | WY | 10/15/2007 | PC Boiler (ES1-01) | Coal | -- -- | Limestone Injection and Flue Gas Desulfurization and CEM System | 0.07 LB/MMBTU | BACT-PSD |

Source: EPA 2012 (RBL database)

**TABLE 6
COST EFFECTIVENESS OF FUEL SWITCHING
PEF CRYSTAL RIVER POWER PLANT, UNITS 1 AND 2**

| Cost Items | Cost Factors | Baseline | Projected Future | Projected Future |
|--|--|---------------------------|---------------------------|---------------------------|
| | | Current Fuel Cost (\$) | 0.68% S Fuel Cost (\$) | 0.35% S Fuel Cost (\$) |
| DIRECT CAPITAL COSTS (DCC): | | | | |
| (1a) Equipment Cost - Upgrade ESP for 0.68%S Coal | | | 100,000,000 | |
| (1b) Equipment Cost - Performance, Coal Handling Performance, Safety for 0.35% Coal ^(a) | | | | 82,500,000 |
| (1c) Equipment Cost - Replace ESP with Baghouse for 0.35%S Coal | | | | 250,000,000 |
| (3) Sales Tax | NA | 0.0 | 0.0 | 0.0 |
| Subtotal: Total Equipment Cost (TEC) | | 0.0 | 100,000,000 | 332,500,000 |
| (4) Direct Installation Costs | NA | 0.0 | 0.0 | 0.0 |
| Total DCC: | | 0.0 | 100,000,000 | 332,500,000 |
| INDIRECT CAPITAL COSTS (ICC): ^(b) | | | | |
| (1) Indirect Installation Costs | | | | |
| (a) Engineering | 10% of TEC | 0.0 | 10,000,000 | 33,250,000 |
| (b) Construction & Field Expenses | 10% of TEC | 0.0 | 10,000,000 | 33,250,000 |
| (c) Construction Contractor Fee | 10% of TEC | 0.0 | 10,000,000 | 33,250,000 |
| (d) Contingencies | 3% of TEC | 0.0 | 3,000,000 | 9,975,000 |
| (2) Other Indirect Costs | | | | |
| (a) Startup | 1% of TEC | 0.0 | 1,000,000 | 3,325,000 |
| (b) Performance Test' | 1% of TEC | 0.0 | 1,000,000 | 3,325,000 |
| Total ICC: | | 0.0 | 35,000,000 | 116,375,000 |
| PROJECT CONTINGENCY | 15% of (DCC+ICC) | 0.0 | 20,250,000 | 67,331,250 |
| TOTAL CAPITAL INVESTMENT (Total Plant Cost) (TCI): | DCC + ICC+Project Contingency | 0.0 | 155,250,000 | 516,206,250 |
| DIRECT OPERATING COSTS (DOC): | | | | |
| (1) Variable Operation & Maintenance Cost | Progress Energy Data | 0 | 0 | 0 |
| (3) Fuels | | | | |
| Existing Fuel Cost (Coal with 1.0%S) | \$4.25/mmBtu coal; 45,000,000 mmBtu/yr; 12,000 Btu/lb | 191,250,000 | -- | -- |
| Proposed Fuel Cost (Coal with 0.68%S) | \$4.37/mmBtu coal; 45,000,000 mmBtu/yr; 12,000 Btu/lb | -- | 196,650,000 | -- |
| Proposed Fuel Cost (Coal with 0.35%S) | \$4.04/mmBtu coal; 45,000,000 mmBtu/yr; 8,800 Btu/lb | -- | -- | 181,800,000 |
| Differential Fuel Cost (Proposed - Existing) | Proposed fuel cost - existing fuel cost | | 5,400,000 | -9,450,000 |
| Total DOC: | | | 5,400,000 | -9,450,000 |
| INDIRECT OPERATING COSTS (IOC): ^(b) | | | | |
| (1) Overhead | 60% of oper. labor & maintenance, CCM Chapter 2 | 0.0 | 0.0 | 0.0 |
| (2) Property Taxes | 1% of total capital investment, CCM Chapter 2 | 0.0 | 1,552,500 | 5,162,063 |
| (3) Insurance | 1% of total capital investment, CCM Chapter 2 | 0.0 | 1,552,500 | 5,162,063 |
| (4) Administration | 2% of total capital investment, CCM Chapter 2 | 0.0 | 3,105,000 | 10,324,125 |
| Total IOC: | (1) + (2) + (3) + (4) | 0.0 | 6,210,000 | 20,648,250 |
| CAPITAL RECOVERY COSTS (CRC): | CRF of 0.55309 times TCI (2 yrs @ 7%) | 0.0 | 85,867,223 | 285,508,515 |
| ANNUALIZED COSTS (AC): | DOC + IOC + CRF | 0.0 | 97,477,223 | 296,706,765 |
| Baseline Emissions: | Based on projected operation for Units 1 & 2 | 38,250 | 38,250 | 38,250 |
| Projected Future Emissions: | 1.2 lb/mmBtu and 0.8 lb/mmBtu; 45,000,000 mmBtu/yr | -- | 27,000 | 18,000 |
| Emissions Reduction (TPY)(AC): | Baseline - Future Projected (TPY) | -- | 11,250 | 20,250 |
| Average Cost Effectiveness (\$/ton): | AC/Emissions Reduction | -- | 8,665 | 14,652 |
| Incremental Cost (\$) | Incremental Cost for using 0.35% S instead of 0.68% S coal | -- | -- | 199,229,542 |
| Incremental Emissions Reduction (TPY): | Emissions Reduction 0.35% S coal - 0.68% S coal | -- | -- | 9,000 |
| Incremental Cost Effectiveness (\$/ton): | Incremental Cost/Incremental Emissions Reduction | -- | -- | 22,137 |
| Modeled Baseline Visibility Impact - Haze Index (HI) (dv): | 8th Highest Visibility Impact for Both Units 1 and 2 | 7.93 | -- | -- |
| Modeled Visibility Impact w 0.68% & 0.35% S Coal - HI (dv) | 8th Highest Visibility Impact for Both Units 1 and 2 | -- | 5.52 | 4.15 |
| Improvement in Visibility (dv) | Future - Baseline | -- | 2.41 | 3.78 |
| Average Visibility Improvement Cost Effectiveness (\$/dv): | AC/Visibility Improvement | -- | 40,446,980 | 78,493,853 |
| Incremental Visibility Improvement (dv): | Visibility Improvement 0.35% S coal - 0.68% S coal | -- | -- | 1.37 |
| Incremental Visibility Improvement Cost Effectiveness (\$/dv) | Incremental Cost/Incremental Visibility Improvement | -- | -- | 145,423,024 |

Notes:

^(a) This estimate is based on a 2005 Sargent and Lundy Crystal River 4 & 5 study on costs of converting to 100% PRB. Significant increased scope is not included in this estimate, as an engineering evaluation would have to be completed to accurately define the required scope. Excluded scope includes, but is not limited to, pressure part modifications, ESP modifications, electrical system upgrades, and fan modifications. The 2005 costs were escalated to 2012 costs using the Global Insight ash and coal handling cost category. In addition this cost estimate does not include any O&M, reagent, byproduct or fuel cost impacts, nor does it include a risk adjustment for potential safety hazards and associated issues related to the use of PRB coal at the Crystal River site.

^(b) Factors and cost estimates reflect OAQPS Cost Manual, 6th Edition, January 2002.

**TABLE 7
COST EFFECTIVENESS OF FUEL GAS DESULFURIZATION (FGD) SYSTEMS
PEF CRYSTAL RIVER POWER PLANT, UNITS 1 AND 2**

| Cost Items | Cost Factors | Baseline Uncontrolled Cost (\$) | Projected Future FGD Systems Cost (\$) |
|--|---|---------------------------------|--|
| DIRECT CAPITAL COSTS (DCC): | | | |
| (1) Equipment Cost | | | 286,653,406 |
| (3) Sales Tax | NA | 0.0 | 0.0 |
| Subtotal: Total Equipment Cost (TEC) | | 0.0 | 286,653,406.0 |
| (4) Direct Installation Costs | NA | 0.0 | 0.0 |
| Total DCC: | | 0.0 | 286,653,406.0 |
| INDIRECT CAPITAL COSTS (ICC): ^(a) | | | |
| (1) Indirect Installation Costs | | | |
| (a) Engineering | 10% of TEC | 0.0 | 28,665,340.6 |
| (b) Construction & Field Expenses | 10% of TEC | 0.0 | 28,665,340.6 |
| (c) Construction Contractor Fee | 10% of TEC | 0.0 | 28,665,340.6 |
| (d) Contingencies | 3% of TEC | 0.0 | 8,599,602.2 |
| (2) Other Indirect Costs | | | |
| (a) Startup | 1% of TEC | 0.0 | 2,866,534.1 |
| (b) Performance Test' | 1% of TEC | 0.0 | 2,866,534.1 |
| Total ICC: | | 0.0 | 100,328,692.1 |
| PROJECT CONTINGENCY | 15% of (DCC+ICC) | 0.0 | 58,047,314.7 |
| TOTAL CAPITAL INVESTMENT (Total Plant Cost) (TCI): | DCC + ICC+Project Contingency | 0.0 | 445,029,412.8 |
| DIRECT OPERATING COSTS (DOC): ^{(a),(b)} | | | |
| (1) Limestone | 133,000 tpy x \$32.8 per ton | 0 | 4,362,400 |
| (2) Filtered water | 315 Mgal x \$0.82 per 1000 gal | 0 | 258,300 |
| (3) Electrical power | 1.9% of gross power production of Units 1 & 2 x 8760 hours x \$0.05 per KW/hr | 0 | 71,111,490 |
| (4) By-product disposal | 380,000 tpy by-product x \$65.6 per ton | 0 | 24,928,000 |
| Total DOC: | | 0 | 100,660,190 |
| INDIRECT OPERATING COSTS (IOC): ^(c) | | | |
| (1) Overhead | 60% of oper. labor & maintenance, CCM Chapter 2 | 0.0 | 0.0 |
| (2) Property Taxes | 1% of total capital investment, CCM Chapter 2 | 0.0 | 4,450,294.1 |
| (3) Insurance | 1% of total capital investment, CCM Chapter 2 | 0.0 | 4,450,294.1 |
| (4) Administration | 2% of total capital investment, CCM Chapter 2 | 0.0 | 8,900,588.3 |
| Total IOC: | (1) + (2) + (3) + (4) | 0.0 | 17,801,176.5 |
| CAPITAL RECOVERY COSTS (CRC): | CRF of 0.55309 times Total Capital Cost (2 yrs @ 7%) | 0.0 | 246,141,318 |
| ANNUALIZED COSTS (AC): | DOC + IOC + CRF | 0.0 | 364,602,684 |
| Baseline Emissions: | Based on projected operation for Units 1 & 2 | 38,250 | 38,250 |
| Projected Future Emissions: | Assumes 95% control | -- | 1,913 |
| Emissions Reduction (TPY)(AC): | Baseline - Future Projected (TPY) | -- | 36,338 |
| Average Cost Effectiveness (\$/ton): | AC/Emissions Reduction | -- | 10,034 |
| Incremental Cost (\$) | Incremental Cost for using FGD instead of 0.68% S coal | -- | -- |
| Incremental Emissions Reduction (TPY): | Emissions Reduction 0.35% S coal - 0.68% S coal | -- | -- |
| Incremental Cost Effectiveness (\$/ton): | Incremental Cost/Incremental Emissions Reduction | -- | -- |
| Modeled Baseline Visibility Impact - Haze Index (HI) (dv): | 8th Highest Visibility Impact for Both Units 1 and 2 | 7.93 | -- |
| Modeled Visibility Impact w FGD System - HI (dv): | 8th Highest Visibility Impact for Both Units 1 and 2 | -- | 3.34 |
| Improvement in Visibility (dv) | Future - Baseline | -- | 4.59 |
| Average Visibility Improvement Cost Effectiveness (\$/dv): | AC/Visibility Improvement | -- | 79,434,136 |
| Incremental Visibility Improvement (dv): | | -- | -- |
| Incremental Visibility Improvement Cost Effectiveness (\$/dv): | Incremental Cost/Incremental Visibility Improvement | -- | -- |

Notes:

^(a) Direct operating costs include primary cost elements only.

^(b) Direct operating costs estimated based on "Dry Flue Gas Desulfurization (DFGD)/Puff Jet Fabric Filter (PJFF) and Selective Catalytic Reduction (SCR) System Retrofit and Conceptual Design and Cost Estimate" for Crystal River Units 1 & 2, Progress Energy Florida, July 2010; CRCA-0-LI-022-0006.

^(c) Factors and cost estimates reflect OAQPS Cost Manual, 6th Edition, January 2002.

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Exhibit G

Crystal River Power Plant

Crystal River, Florida

Sierra Club Evaluation of Compliance with 1-hour SO₂ NAAQS

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Conducted by:

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1. Introduction

The Sierra Club prepared an air modeling impact analysis to help USEPA, state and local air agencies identify facilities that are likely causing violations of the 1-hour sulfur dioxide (SO₂) national ambient air quality standard (NAAQS). This document describes the results and procedures for an evaluation conducted for the Crystal River Power Plant located in Crystal River, Florida.

The dispersion modeling analysis predicted ambient air concentrations for comparison with the one hour SO₂ NAAQS. The modeling was performed using the most recent version of AERMOD, AERMET, and AERMINUTE, with data provided to the Sierra Club by regulatory air agencies and through other publicly-available sources as documented below. The analysis was conducted in adherence to all available USEPA guidance for evaluating source impacts on attainment of the 1-hour SO₂ NAAQS via aerial dispersion modeling, including the AERMOD Implementation Guide; USEPA's Applicability of Appendix W Modeling Guidance for the 1-hour SO₂ National Ambient Air Quality Standard, August 23, 2010; modeling guidance promulgated by USEPA in Appendix W to 40 CFR Part 51; and, USEPA's March 2011 Modeling Guidance for SO₂ NAAQS Designations, available at <http://www.epa.gov/ttn/scram/SO2%20Designations%20Guidance%202011.pdf>.

2. Compliance with the 1-hour SO₂ NAAQS

2.1 1-hour SO₂ NAAQS

The 1-hour SO₂ NAAQS takes the form of a three-year average of the 99th-percentile of the annual distribution of daily maximum 1-hour concentrations, which cannot exceed 75 ppb.¹ Compliance with this standard was verified using USEPA's AERMOD air dispersion model, which produces air concentrations in units of µg/m³. The 1-hour SO₂ NAAQS of 75 ppb equals 196.2 µg/m³, and this is the value used for determining whether modeled impacts exceed the NAAQS.² The 99th-percentile of the annual distribution of daily maximum 1-hour concentrations corresponds to the fourth-highest value at each receptor for a given year.

2.2 Modeling Results

Modeling results for Crystal River Power Plant are summarized in Table 1. It was determined that based on either currently permitted emissions or measured actual emissions, the Crystal River Power Plant is estimated to create downwind SO₂ concentrations which exceed the 1-hour NAAQS.

¹ USEPA, Applicability of Appendix W Modeling Guidance for the 1-hour SO₂ National Ambient Air Quality Standard, August 23, 2010.

² The ppb to µg/m³ conversion is found in the source code to AERMOD v. 11103, subroutine Modules. The conversion calculation is $75/0.3823 = 196.2$ µg/m³.

The currently permitted emissions and measured actual emissions used for the modeling analysis are summarized in Table 2. Based on the modeling results, emission reductions from current rates considered necessary to achieve compliance with the 1-hour NAAQS were calculated and presented in Table 3.

Predicted exceedences of the 1-hour NAAQS for SO₂ extend throughout the region to a maximum distance of 40 kilometers.

Figure 1 provided at the end of this report shows the extent of NAAQS violations throughout the entire 50 kilometer modeling domain.

Figure 2 provides a close-up local view of NAAQS violations.

Air quality impacts in Florida are based on a background concentration of 5.2 µg/m³. This is the 2008-10 design value for Miami - Dade County, Florida - the lowest measured background concentration in the state. This is the most recently available design value.

2.3 Conservative Modeling Assumptions

A dispersion modeling analysis requires the selection of numerous parameters which affect the predicted concentrations. For the enclosed analysis, several parameters were selected which under-predict facility impacts.

Assumptions used in this modeling analysis which likely under-estimate concentrations include the following:

- Allowable emissions are based on a limitation with an averaging period which is greater than the 1-hour average used for the SO₂ air quality standard. Emissions and impacts during any 1-hour period may be higher than assumed for the modeling analysis.
- No consideration of facility operation at less than 100% load. Stack parameters such as exit flow rate and temperature are typically lower at less than full load, reducing pollutant dispersion and increasing predicted air quality impacts.
- No consideration of building or structure downwash. These downwash effects typically increase predicted concentrations near the facility.
- No consideration of off-site sources. These other sources of SO₂ will increase the predicted impacts.

Table 1 - SO₂ Modeling Results for Crystal River Power Plant Modeling Analysis

| Emission Rates | Averaging Period | 99 th Percentile 1-hour Daily Maximum (µg/m ³) | | | | Complies with NAAQS? |
|----------------|------------------|---|------------|-------|-------|----------------------|
| | | Impact | Background | Total | NAAQS | |
| Allowable | 1-hour | 915.8 | 5.2 | 921.0 | 196.2 | No |
| Maximum | 1-hour | 529.4 | 5.2 | 534.6 | 196.2 | No |

Table 2 - Modeled SO₂ Emissions from Crystal River Power Plant^{3,4}

| Stack ID | Unit ID | Allowable Emissions 24-hour Average (lbs/hr) | Maximum Emissions 1-hour Average (lbs/hr) |
|-------------|---------------|--|---|
| S01 | Unit 1 | 7,875.0 | 4,319.0 |
| S02 | Unit 2 | 10,069.5 | 5,092.0 |
| S45 | Units 4 and 5 | 17,280.0 | 10,531.0 |
| Stack Total | All Units | 32,224.5 | 19,942.0 |

Table 3 - Required Emission Reductions for Compliance with 1-hour SO₂ NAAQS

| Acceptable Impact (NAAQS - Background) 99 th Percentile 1-hour Daily Max (µg/m ³) | Required Total Facility Reduction Based on Allowable Emissions (%) | Required Total Facility Emission Rate (lbs/hr) | Required Total Facility Emission Rate (lbs/mmbtu) |
|--|--|---|--|
| 191.0 | 79.1% | 6,720.8 | 0.25 |

³ Florida Department of Environmental Protection, Division of Air Resource Management, Title V Air Operation Permit No. 0170004-025-AV, April 11, 2011. All units have an emission limitation of 1.2 lbs/mmbtu.

⁴ Maximum emissions are measured hourly rates reported for 2011 in USEPA, Clean Air Markets - Data and Maps.

3. Modeling Methodology

3.1 Air Dispersion Model

The modeling analysis used USEPA's AERMOD program, version 12060. AERMOD, as available from the Support Center for Regulatory Atmospheric Modeling (SCRAM) website, was used in conjunction with a third-party modeling software program, *AERMOD View*, sold by Lakes Environmental Software.

3.2 Control Options

The AERMOD model was run with the following control options:

- 1-hour average air concentrations
- Regulatory defaults
- Flagpole receptors

To reflect a representative inhalation level, a flagpole height of 1.5 meters was used for all modeled receptors. This parameter was added to the receptor file when running AERMAP, as described in Section 4.4.

An evaluation was conducted to determine if the modeled facility was located in a rural or urban setting using USEPA's methodology outlined in Section 7.2.3 of the Guideline on Air Quality Models.⁵ For urban sources, the URBANOPT option is used in conjunction with the urban population from an appropriate nearby city and a default surface roughness of 1.0 meter. Methods described in Section 4.1 to determine whether rural or urban dispersion coefficients were used.

3.3 Output Options

The AERMOD analysis was based on five years of recent meteorological data. The modeling analyses used one run with five years of sequential meteorological data from 2007-2011. Consistent with USEPA's Modeling Guidance for SO₂ NAAQS Designations, AERMOD provided a table of fourth-high 1-hour SO₂ impacts concentrations consistent with the form of the 1-hour SO₂ NAAQS.⁶

Please refer to Table 1 for the modeling results.

⁵ USEPA, Revision to the Guideline on Air Quality Models: Adoption of a Preferred General Purpose (Flat and Complex Terrain) Dispersion Model and Other Revisions, Appendix W to 40 CFR Part 51, November 9, 2005.

⁶ USEPA, Area Designations for the 2010 Revised Primary Sulfur Dioxide National Ambient Air Quality Standards, Attachment 3, March 24, 2011, pp. 24-26.

4. Model Inputs

4.1 Geographical Inputs

The “ground floor” of all air dispersion modeling analyses is establishing a coordinate system for identifying the geographical location of emission sources and receptors. These geographical locations are used to determine local characteristics (such as land use and elevation), and also to ascertain source to receptor distances and relationships.

The Universal Transverse Mercator (UTM) NAD83 coordinate system was used for identifying the easting (x) and northing (y) coordinates of the modeled sources and receptors. Stack locations were obtained from facility permits and prior modeling files provided by the state regulatory agency. The stack locations were then verified using aerial photographs.

The facility was evaluated to determine if it should be modeled using the rural or urban dispersion coefficient option in AERMOD. A GIS was used to determine whether rural or urban dispersion coefficients apply to a site. Land use within a three-kilometer radius circle surrounding the facility was considered. USEPA guidance states that urban dispersion coefficients are used if more than 50% of the area within 3 kilometers has urban land uses. Otherwise, rural dispersion coefficients are appropriate.⁷

USEPA’s AERSURFACE model Version 08009 was used to develop the meteorological data for the modeling analysis. This model was also used to evaluate surrounding land use within 3 kilometers. Based on the output from the AERSURFACE, approximately 20.2% of surrounding land use around the airport was of urban land use types including: 21 – Low Intensity Residential, 22 – High Intensity Residential, and 23 - Commercial/Industrial/Transportation.

This is less than the 50% value considered appropriate for the use of urban dispersion coefficients. Based on the AERSURFACE analysis, it was concluded that the rural option would be used for the modeling summarized in this report. Please refer to Section 4.5.3 for a discussion of the AERSURFACE analysis.

⁷ USEPA, Revision to the Guideline on Air Quality Models: Adoption of a Preferred General Purpose (Flat and Complex Terrain) Dispersion Model and Other Revisions, Appendix W to 40 CFR Part 51, November 9, 2005, Section 7.2.3.

4.2 Emission Rates and Source Parameters

The modeling analyses only considered SO₂ emissions from the facility. Off-site sources were not considered. Concentrations were predicted for two scenarios shown in Table 2:

- 1) approved or allowable emissions based on permits issued by the regulatory agency, and
- 2) measured actual hourly SO₂ emissions obtained from USEPA’s Clean Air Markets Database. To assure realistic emission rates were used, emissions from all units at the facility were combined and the hour with the maximum total facility emissions was used to determine the actual emissions.

Stack parameters and emissions used for the modeling analysis are summarized in Table 4.

Table 4 – Facility Stack Parameters and Emissions⁸

| Stack | S01 | S02 | S45 |
|-------------------------------|------------|------------|---------------|
| Description | Unit 1 | Unit 2 | Units 4 and 5 |
| X Coord. [m] | 334265.16 | 334329.64 | 334783.6 |
| Y Coord. [m] | 3204413.63 | 3204413.63 | 3205565.58 |
| Base Elevation [m] | 2.74 | 2.96 | 2.89 |
| Release Height [m] | 152.1 | 153.01 | 167.64 |
| Gas Exit Temperature [°K] | 417.039 | 422.039 | 327.594 |
| Gas Exit Velocity [m/s] | 40.473 | 48.796 | 15.333 |
| Inside Diameter [m] | 4.572 | 4.877 | 9.296 |
| Allowable Emission Rate [g/s] | 992.2 | 1,269.0 | 2,177.0 |
| Maximum Emission Rate [g/s] | 544.2 | 641.6 | 1,327.0 |

The above stack parameters and emissions were obtained from regulatory agency documents and databases identified in Section 2.3. The analysis was conducted based on 100% operating load using maximum exhaust flow rates and emission rates. Operation at less than full capacity loads was not considered. This assumption tends to under-predict impacts since stack parameters such as exit flow rate and temperature are typically lower at less than full load, reducing pollutant dispersion and increasing predicted air quality impacts. Stack location, height and diameter were verified using aerial photographs, and flue gas flow rate and temperature were verified using combustion calculations.

⁸ Florida Department of Environmental Protection, Division of Air Resource Management, Title V Air Operation Permit No. 0170004-025-AV, April 11, 2011.

4.3 Building Dimensions and GEP

No building dimensions or prior downwash evaluations were available. Therefore this modeling analysis did not address the effects of downwash which may increase predicted concentrations.

4.4 Receptors

For Crystal River Power Plant, three receptor grids were employed:

1. A 100-meter Cartesian receptor grid centered on Crystal River Power Plant and extending out 5 kilometers.
2. A 500-meter Cartesian receptor grid centered on Crystal River Power Plant and extending out 10 kilometers.
3. A 1,000-meter Cartesian receptor grid centered on Crystal River Power Plant and extending out 50 kilometers. 50 kilometers is the maximum distance accepted by USEPA for the use of the AERMOD dispersion model.⁹

A flagpole height of 1.5 meters was used for all these receptors.

Elevations from stacks and receptors were obtained from National Elevation Dataset (NED) GeoTiff data. GeoTiff is a binary file that includes data descriptors and geo-referencing information necessary for extracting terrain elevations. These elevations were extracted from 1 arc-second (30 meter) resolution NED files. The USEPA software program AERMAP v. 11103 is used for these tasks.

4.5 Meteorological Data

To improve the accuracy of the modeling analysis, recent meteorological data for the 2007 to 2011 period were prepared using the USEPA's program AERMET which creates the model-ready surface and profile data files required by AERMOD. Required data inputs to AERMET included surface meteorological measurements, twice-daily soundings of upper air measurements, and the micrometeorological parameters surface roughness, albedo, and Bowen ratio. One-minute ASOS data were available so USEPA methods were used to reduce calm and missing hours.¹⁰ The USEPA software program AERMINUTE v. 11325 is used for these tasks.

⁹ USEPA, Revision to the Guideline on Air Quality Models: Adoption of a Preferred General Purpose (Flat and Complex Terrain) Dispersion Model and Other Revisions, Appendix W to 40 CFR Part 51, Section A.1.(1), November 9, 2005.

¹⁰ USEPA, Area Designations for the 2010 Revised Primary Sulfur Dioxide National Ambient Air Quality Standards, Attachment 3, March 24, 2011, p. 19.

This section discusses how the meteorological data was prepared for use in the 1-hour SO₂ NAAQS modeling analyses. The USEPA software program AERMET v. 11059 is used for these tasks.

4.5.1 Surface Meteorology

Surface meteorology was obtained for Hernando County Airport located near the Crystal River Power Plant. Integrated Surface Hourly (ISH) data for the 2007 to 2011 period were obtained from the National Climatic Data Center (NCDC). The ISH surface data was processed through AERMET Stage 1, which performs data extraction and quality control checks.

4.5.2 Upper Air Data

Upper-air data are collected by a “weather balloon” that is released twice per day at selected locations. As the balloon is released, it rises through the atmosphere, and radios the data back to the surface. The measuring and transmitting device is known as either a radiosonde, or rawinsonde. Data collected and radioed back include: air pressure, height, temperature, dew point, wind speed, and wind direction. The upper air data were processed through AERMET Stage 1, which performs data extraction and quality control checks.

For Crystal River Power Plant, the concurrent 2007 through 2011 upper air data from twice-daily radiosonde measurements obtained at the most representative location were used. This location was the Tampa Bay/Ruskin, Florida measurement station. These data are in Forecast Systems Laboratory (FSL) format and were downloaded in ASCII text format from NOAA’s FSL website.¹¹ All reporting levels were downloaded and processed with AERMET.

4.5.3 AERSURFACE

AERSURFACE is a non-guideline program that extracts surface roughness, albedo, and daytime Bowen ratio for an area surrounding a given location. AERSURFACE uses land use and land cover (LULC) data in the U.S. Geological Survey’s 1992 National Land Cover Dataset to extract the necessary micrometeorological data. LULC data was used for processing meteorological data sets used as input to AERMOD.

AERSURFACE v. 08009 was used to develop surface roughness, albedo, and daytime Bowen ratio values in a region surrounding the meteorological data collection site. AERSURFACE was used to develop surface roughness in a one kilometer radius surrounding the data collection site. Bowen ratio and albedo was developed for a 10 kilometer by 10 kilometer area centered on the meteorological data collection site. These micrometeorological data were processed for seasonal

¹¹ Available at: <http://esrl.noaa.gov/raobs/>

periods using 30-degree sectors. Seasonal moisture conditions were considered average with no months with continuous snow cover.

4.5.4 Data Review

Missing meteorological data were not filled as the data file met USEPA's 90% data completeness requirement.¹² The AERMOD output file shows there were 6.0% missing data.

The representativeness of airport meteorological data is a potential concern in modeling industrial source sites.¹³ The surface characteristics of the airport data collection site and the modeled source location were compared. Since the Hernando County Airport is located close to Crystal River Power Plant, this meteorological data set was considered appropriate for this modeling analysis.

5. Background SO₂ Concentrations

Background concentrations were determined consistent with USEPA's Modeling Guidance for SO₂ NAAQS Designations.¹⁴ To preserve the form of the 1-hour SO₂ standard, based on the 99th percentile of the annual distribution of daily maximum 1-hour concentrations averaged across the number of years modeled, the background fourth-highest daily maximum 1-hour SO₂ concentration was added to the modeled fourth-highest daily maximum 1-hour SO₂ concentration.¹⁵

Background concentrations were based on the 2008-10 design value measured by the ambient monitors located in Florida.¹⁶

6. Reporting

All files from the programs used for this modeling analysis are available to regulatory agencies. These include analyses prepared with AERSURFACE, AERMET, AERMAP, and AERMOD.

¹² USEPA, Meteorological Monitoring Guidance for Regulatory Modeling Applications, EPA-454/R-99-05, February 2000, Section 5.3.2, pp. 5-4 to 5-5.

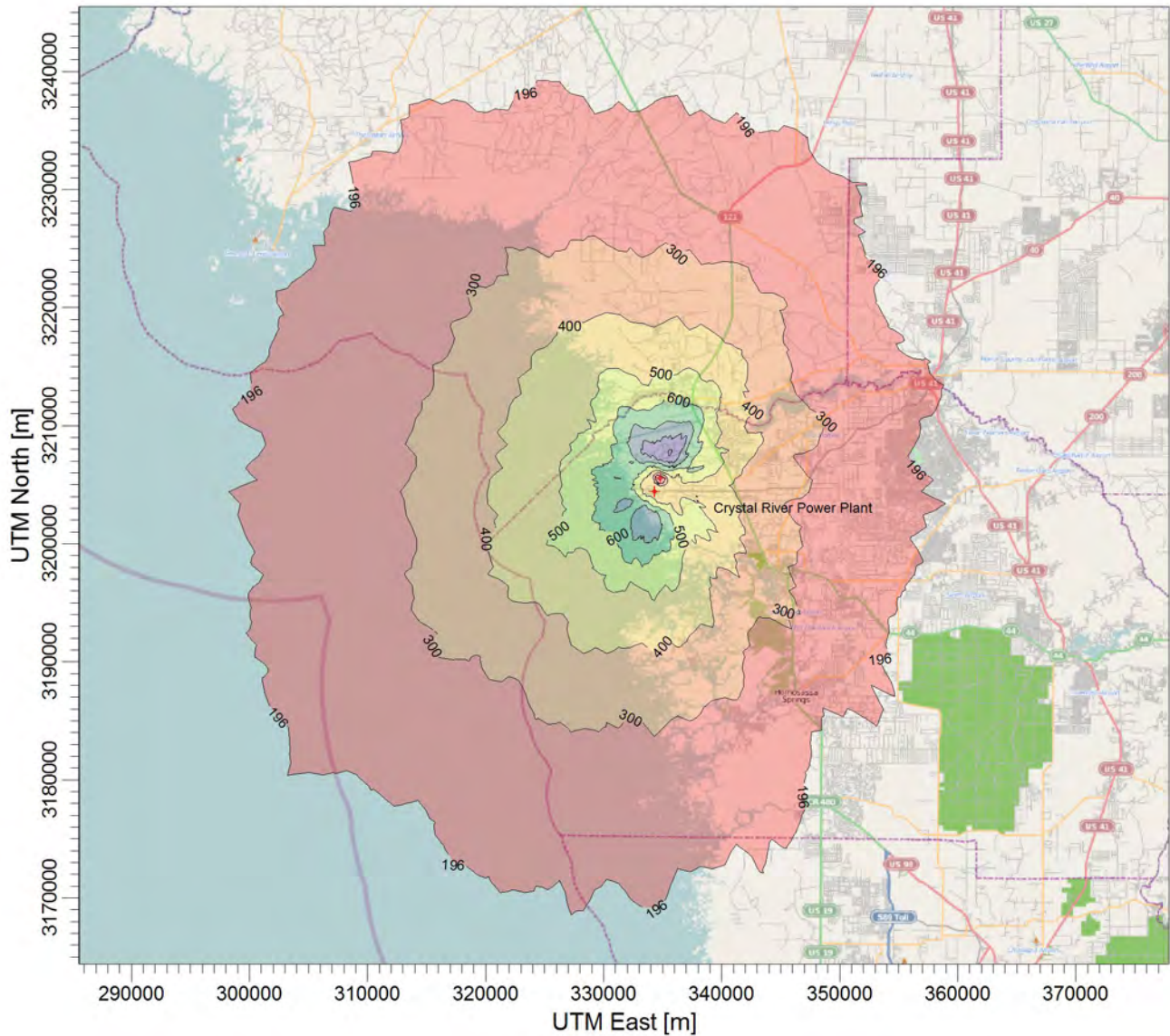
¹³ USEPA, AERMOD Implementation Guide, March 19, 2009, pp. 3-4.

¹⁴ USEPA, Area Designations for the 2010 Revised Primary Sulfur Dioxide National Ambient Air Quality Standards, Attachment 3, March 24, 2011, pp. 20-23.

¹⁵ USEPA, Applicability of Appendix W Modeling Guidance for the 1-hour SO₂ National Ambient Air Quality Standard, August 23, 2010, p. 3.

¹⁶ <http://www.epa.gov/airtrends/values.html>

Crystal River Power Plant - Crystal River, Florida
Evaluation of Compliance with the 1-hour NAAQS for SO2

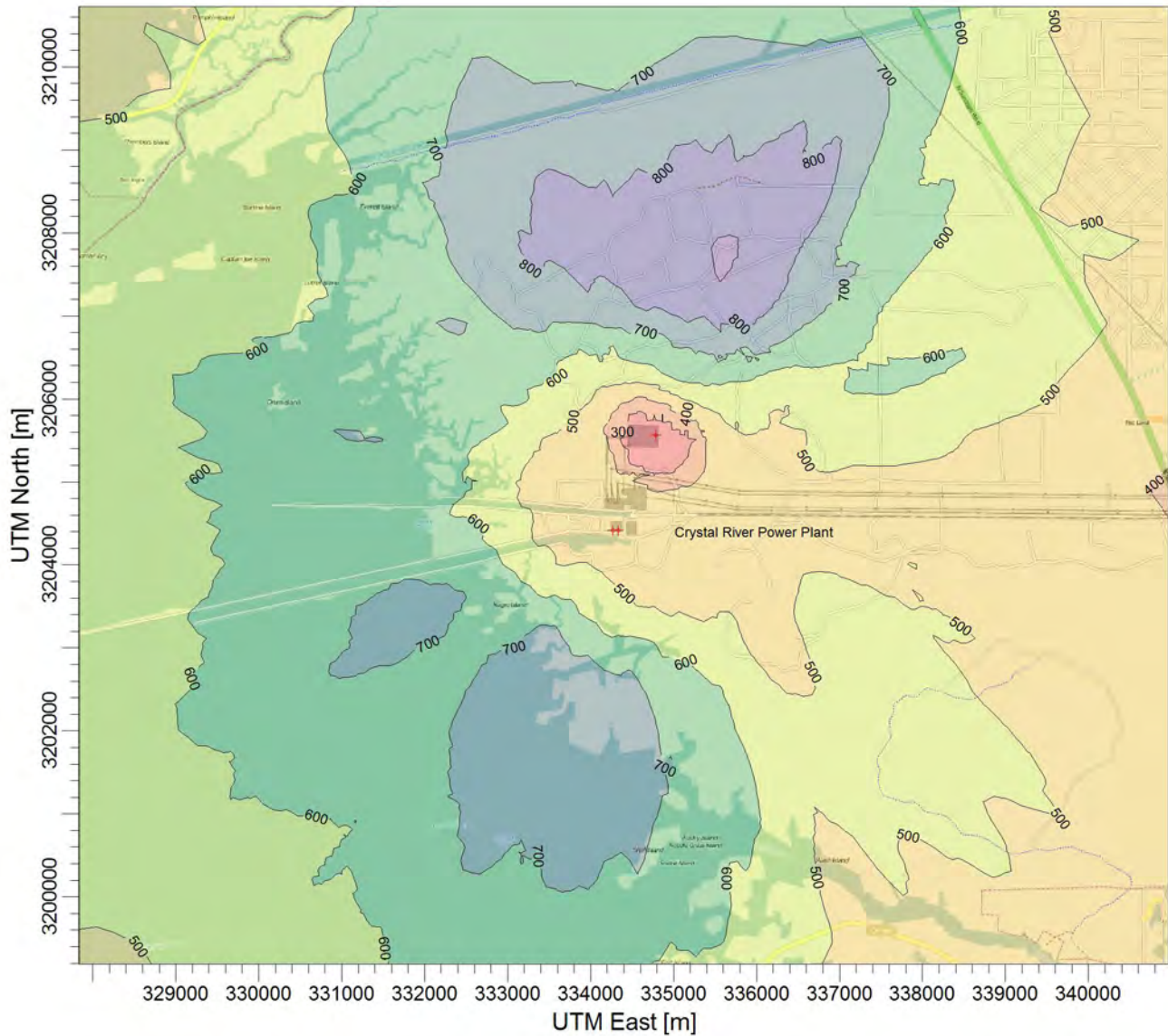


1-hour average SO2 concentrations (ug per cubic meter) - All colored areas exceed the NAAQS.



| | | | |
|--|--|---|--|
| <p>All concentrations include a background of 5.2 ug/m³. This figure is based on allowable emissions.</p> | Total Sources 6 | Conducted on behalf of the Sierra Club by Wingra Engineering, S.C. | |
| | Total Receptors 22083 | | |
| | Output Type Concentration | SCALE: 1:580,926 0 20 km | |
| | Maximum 921.02714 ug/m³ | DATE: 6/25/2012 | |

Crystal River Power Plant - Crystal River, Florida
Evaluation of Compliance with the 1-hour NAAQS for SO2



1-hour average SO2 concentrations (ug per cubic meter) - All colored areas exceed the NAAQS.



| | | | |
|---|--|---|--|
| All concentrations include a background of 5.2 ug/m ³ . This figure is based on allowable emissions. | Total Sources 6 | Conducted on behalf of the Sierra Club by Wingra Engineering, S.C. | |
| | Total Receptors 22083 | | |
| | Output Type Concentration | SCALE: 1:82,636 0 3 km | |
| | Maximum 921.02714 ug/m³ | DATE: 6/25/2012 | |

Exhibit H

| State | Facility Name | Unit ID | Year | Date | Hour | SO2 (pounds) | SO2 Rate (lbs/MMBtu) | NOx (pounds) | CO2 (tons) | Heat Input (MMBtu) | Gross Load (MW) |
|-------|---------------|---------|------|----------|------|--------------|----------------------|--------------|------------|--------------------|-----------------|
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 0 | 2267 | 1.649567052 | 511 | 141 | 1374.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 1 | 2295 | 1.667756704 | 522 | 141 | 1376.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 2 | 2313 | 1.673298126 | 507 | 141 | 1382.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 3 | 2367 | 1.669605699 | 517 | 145 | 1417.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 4 | 2351 | 1.673905304 | 523 | 144 | 1404.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 5 | 2386 | 1.672977142 | 530 | 146 | 1426.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 6 | 2307 | 1.663781913 | 522 | 142 | 1386.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 7 | 2300 | 1.644384071 | 524 | 143 | 1398.7 | 120 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 8 | 2409 | 1.614394853 | 544 | 153 | 1492.2 | 134 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 9 | 2572 | 1.57791411 | 546 | 167 | 1630 | 150 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 10 | 3074 | 1.577704783 | 627 | 199 | 1948.4 | 191 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 11 | 5254 | 1.580150376 | 1123 | 341 | 3325 | 338 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 12 | 6379 | 1.593913196 | 1500 | 410 | 4002.1 | 367 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 13 | 6678 | 1.604285783 | 1536 | 427 | 4162.6 | 373 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 14 | 5730 | 1.644897373 | 1281 | 357 | 3483.5 | 365 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 15 | 5575 | 1.642362645 | 1262 | 348 | 3394.5 | 354 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 16 | 5269 | 1.616108947 | 1232 | 334 | 3260.3 | 339 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 17 | 4142 | 1.576943577 | 1050 | 269 | 2626.6 | 275 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 18 | 2853 | 1.513849093 | 578 | 193 | 1884.6 | 189 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 19 | 2040 | 1.486988848 | 474 | 140 | 1371.9 | 123 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 20 | 2013 | 1.484513274 | 461 | 139 | 1356 | 119 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 21 | 2026 | 1.490911767 | 468 | 139 | 1358.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 22 | 2025 | 1.487985892 | 477 | 139 | 1360.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/1/2013 | 23 | 2018 | 1.479580614 | 477 | 139 | 1363.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 0 | 2029 | 1.483837941 | 482 | 140 | 1367.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 1 | 2085 | 1.480718699 | 497 | 144 | 1408.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 2 | 2091 | 1.48392591 | 498 | 144 | 1409.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 3 | 2110 | 1.496878547 | 483 | 144 | 1409.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 4 | 2121 | 1.520212156 | 481 | 143 | 1395.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 5 | 2179 | 1.530626581 | 495 | 146 | 1423.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 6 | 2171 | 1.558171248 | 484 | 143 | 1393.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 7 | 2132 | 1.560647098 | 479 | 140 | 1366.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 8 | 2122 | 1.568018917 | 470 | 138 | 1353.3 | 121 |

| | | | | | | | | | | | |
|----|---------------|---|------|----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 9 | 3211 | 1.573942454 | 579 | 209 | 2040.1 | 197 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 10 | 3987 | 1.584910161 | 787 | 258 | 2515.6 | 256 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 11 | 6496 | 1.600315333 | 1485 | 416 | 4059.2 | 366 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 12 | 6646 | 1.577872745 | 1651 | 432 | 4212 | 378 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 13 | 6558 | 1.544403363 | 1673 | 435 | 4246.3 | 379 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 14 | 5573 | 1.544323441 | 1403 | 370 | 3608.7 | 372 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 15 | 5604 | 1.56457647 | 1393 | 367 | 3581.8 | 372 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 16 | 5628 | 1.585084211 | 1381 | 364 | 3550.6 | 369 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 17 | 5595 | 1.636443405 | 1347 | 350 | 3419 | 356 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 18 | 5488 | 1.666464229 | 1264 | 337 | 3293.2 | 342 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 19 | 5591 | 1.696607392 | 1318 | 338 | 3295.4 | 341 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 20 | 3351 | 1.653426753 | 871 | 207 | 2026.7 | 206 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 21 | 2220 | 1.639828631 | 472 | 138 | 1353.8 | 121 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 22 | 2236 | 1.605629757 | 466 | 142 | 1392.6 | 125 |
| FL | Crystal River | 1 | 2013 | 9/2/2013 | 23 | 2111 | 1.563935398 | 469 | 138 | 1349.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 0 | 2073 | 1.528084918 | 477 | 139 | 1356.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 1 | 2091 | 1.511056511 | 481 | 142 | 1383.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 2 | 2090 | 1.496277205 | 490 | 143 | 1396.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 3 | 2090 | 1.507066628 | 493 | 142 | 1386.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 4 | 2084 | 1.511349627 | 493 | 141 | 1378.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 5 | 2151 | 1.519175083 | 504 | 145 | 1415.9 | 121 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 6 | 2037 | 1.492089071 | 466 | 140 | 1365.2 | 121 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 7 | 2189 | 1.481356162 | 472 | 151 | 1477.7 | 132 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 8 | 2521 | 1.47616817 | 488 | 175 | 1707.8 | 158 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 9 | 3147 | 1.509569722 | 560 | 213 | 2084.7 | 206 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 10 | 4442 | 1.58275432 | 934 | 287 | 2806.5 | 291 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 11 | 6285 | 1.617885551 | 1429 | 398 | 3884.7 | 360 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 12 | 6760 | 1.605243161 | 1490 | 432 | 4211.2 | 379 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 13 | 6721 | 1.588025424 | 1549 | 434 | 4232.3 | 378 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 14 | 6112 | 1.577086828 | 1422 | 397 | 3875.5 | 379 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 15 | 5488 | 1.581966504 | 1245 | 355 | 3469.1 | 366 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 16 | 5357 | 1.560351858 | 1201 | 352 | 3433.2 | 359 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 17 | 5407 | 1.568746917 | 1237 | 353 | 3446.7 | 361 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 18 | 5684 | 1.588685785 | 1252 | 367 | 3577.8 | 374 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 19 | 5725 | 1.619839855 | 1198 | 362 | 3534.3 | 370 |

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|----|---------------|---|------|----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 20 | 4372 | 1.646890421 | 910 | 272 | 2654.7 | 278 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 21 | 2321 | 1.667385057 | 444 | 142 | 1392 | 120 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 22 | 2393 | 1.727797834 | 423 | 142 | 1385 | 119 |
| FL | Crystal River | 1 | 2013 | 9/3/2013 | 23 | 2464 | 1.797228301 | 431 | 140 | 1371 | 119 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 0 | 2465 | 1.795731041 | 435 | 140 | 1372.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 1 | 2382 | 1.726462274 | 441 | 141 | 1379.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 2 | 2269 | 1.700644581 | 444 | 136 | 1334.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 3 | 2250 | 1.686656672 | 442 | 136 | 1334 | 119 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 4 | 2320 | 1.710536017 | 447 | 139 | 1356.3 | 122 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 5 | 2470 | 1.738212526 | 476 | 145 | 1421 | 125 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 6 | 2337 | 1.722689076 | 459 | 139 | 1356.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 7 | 2330 | 1.708336388 | 458 | 139 | 1363.9 | 121 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 8 | 3116 | 1.689346706 | 461 | 189 | 1844.5 | 176 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 9 | 4609 | 1.685500091 | 768 | 280 | 2734.5 | 284 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 10 | 6680 | 1.666625084 | 1358 | 411 | 4008.1 | 372 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 11 | 6868 | 1.646015578 | 1431 | 428 | 4172.5 | 375 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 12 | 6796 | 1.642498067 | 1444 | 424 | 4137.6 | 377 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 13 | 6036 | 1.653336255 | 1281 | 374 | 3650.8 | 377 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 14 | 5954 | 1.691092933 | 1264 | 361 | 3520.8 | 375 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 15 | 5729 | 1.70136311 | 1208 | 345 | 3367.3 | 357 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 16 | 5645 | 1.707914801 | 1180 | 339 | 3305.2 | 350 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 17 | 4494 | 1.667718113 | 821 | 276 | 2694.7 | 291 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 18 | 4609 | 1.693924804 | 783 | 279 | 2720.9 | 290 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 19 | 3433 | 1.757358587 | 588 | 200 | 1953.5 | 198 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 20 | 2486 | 1.760623229 | 471 | 144 | 1412 | 123 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 21 | 2415 | 1.757514009 | 445 | 141 | 1374.1 | 121 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 22 | 2467 | 1.736956981 | 448 | 145 | 1420.3 | 125 |
| FL | Crystal River | 1 | 2013 | 9/4/2013 | 23 | 2349 | 1.676061363 | 454 | 143 | 1401.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 0 | 2276 | 1.65190884 | 446 | 141 | 1377.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 1 | 2252 | 1.64044289 | 442 | 140 | 1372.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 2 | 2216 | 1.624871682 | 421 | 139 | 1363.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 3 | 2259 | 1.642550716 | 430 | 141 | 1375.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 4 | 2248 | 1.644236396 | 429 | 140 | 1367.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 5 | 2281 | 1.641834017 | 439 | 142 | 1389.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 6 | 2193 | 1.630362055 | 441 | 138 | 1345.1 | 119 |

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|----|---------------|---|------|----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 7 | 2261 | 1.629314693 | 457 | 142 | 1387.7 | 124 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 8 | 3106 | 1.649845958 | 513 | 193 | 1882.6 | 193 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 9 | 3820 | 1.698683742 | 647 | 230 | 2248.8 | 227 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 10 | 4500 | 1.727646178 | 778 | 267 | 2604.7 | 274 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 11 | 7199 | 1.738217114 | 1532 | 424 | 4141.6 | 373 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 12 | 6968 | 1.71820289 | 1545 | 416 | 4055.4 | 367 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 13 | 7138 | 1.715741653 | 1572 | 426 | 4160.3 | 377 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 14 | 7159 | 1.716992445 | 1567 | 427 | 4169.5 | 378 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 15 | 7207 | 1.725318395 | 1574 | 428 | 4177.2 | 378 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 16 | 7020 | 1.718734698 | 1535 | 419 | 4084.4 | 377 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 17 | 5710 | 1.70188668 | 1321 | 344 | 3355.1 | 352 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 18 | 5477 | 1.684919707 | 1251 | 333 | 3250.6 | 345 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 19 | 5906 | 1.711288827 | 1328 | 354 | 3451.2 | 367 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 20 | 5365 | 1.715153453 | 1210 | 320 | 3128 | 333 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 21 | 3193 | 1.689954483 | 566 | 193 | 1889.4 | 192 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 22 | 2601 | 1.690278139 | 474 | 157 | 1538.8 | 147 |
| FL | Crystal River | 1 | 2013 | 9/5/2013 | 23 | 2199 | 1.6732613 | 445 | 134 | 1314.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 0 | 2227 | 1.666666667 | 445 | 137 | 1336.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 1 | 2234 | 1.671154997 | 446 | 137 | 1336.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 2 | 2235 | 1.693951796 | 448 | 135 | 1319.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 3 | 2226 | 1.698847592 | 445 | 134 | 1310.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 4 | 2255 | 1.711445052 | 451 | 135 | 1317.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 5 | 2283 | 1.717186912 | 450 | 136 | 1329.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 6 | 2224 | 1.68881464 | 451 | 135 | 1316.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 7 | 2322 | 1.695633124 | 447 | 140 | 1369.4 | 126 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 8 | 4106 | 1.717847879 | 666 | 245 | 2390.2 | 244 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 9 | 6303 | 1.746225239 | 1230 | 370 | 3609.5 | 347 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 10 | 7366 | 1.74446418 | 1613 | 433 | 4222.5 | 385 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 11 | 7367 | 1.748095769 | 1614 | 432 | 4214.3 | 387 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 12 | 7383 | 1.74671146 | 1631 | 433 | 4226.8 | 387 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 13 | 7355 | 1.733811084 | 1595 | 435 | 4242.1 | 384 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 14 | 7315 | 1.730541755 | 1614 | 433 | 4227 | 386 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 15 | 6833 | 1.723546475 | 1518 | 406 | 3964.5 | 382 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 16 | 4811 | 1.703069135 | 1079 | 289 | 2824.9 | 305 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 17 | 3340 | 1.682619647 | 625 | 203 | 1985 | 196 |

| | | | | | | | | | | | |
|----|---------------|---|------|----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 18 | 2476 | 1.637674449 | 488 | 155 | 1511.9 | 129 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 19 | 2443 | 1.636083579 | 476 | 153 | 1493.2 | 128 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 20 | 2297 | 1.646713026 | 456 | 143 | 1394.9 | 120 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 21 | 2283 | 1.656147987 | 453 | 141 | 1378.5 | 121 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 22 | 2237 | 1.637148712 | 452 | 140 | 1366.4 | 121 |
| FL | Crystal River | 1 | 2013 | 9/6/2013 | 23 | 2280 | 1.634994622 | 463 | 143 | 1394.5 | 121 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 0 | 2286 | 1.620701879 | 475 | 144 | 1410.5 | 121 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 1 | 2317 | 1.613060429 | 489 | 147 | 1436.4 | 121 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 2 | 2343 | 1.618988391 | 503 | 148 | 1447.2 | 121 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 3 | 2386 | 1.620373514 | 516 | 151 | 1472.5 | 121 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 4 | 2338 | 1.59764931 | 521 | 150 | 1463.4 | 121 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 5 | 2402 | 1.599307544 | 534 | 154 | 1501.9 | 121 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 6 | 2387 | 1.595588235 | 529 | 153 | 1496 | 121 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 7 | 2297 | 1.579345435 | 516 | 149 | 1454.4 | 121 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 8 | 2265 | 1.573463008 | 511 | 147 | 1439.5 | 123 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 9 | 2665 | 1.587916344 | 527 | 172 | 1678.3 | 154 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 10 | 4530 | 1.628266417 | 856 | 285 | 2782.1 | 286 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 11 | 5951 | 1.675346978 | 1371 | 364 | 3552.1 | 378 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 12 | 6643 | 1.681814729 | 1587 | 405 | 3949.9 | 386 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 13 | 7172 | 1.689318102 | 1706 | 435 | 4245.5 | 388 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 14 | 7142 | 1.678377553 | 1740 | 436 | 4255.3 | 388 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 15 | 7050 | 1.657068986 | 1748 | 436 | 4254.5 | 388 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 16 | 6180 | 1.652980983 | 1536 | 383 | 3738.7 | 388 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 17 | 5496 | 1.675048002 | 1391 | 336 | 3281.1 | 351 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 18 | 4520 | 1.653739207 | 1005 | 280 | 2733.2 | 291 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 19 | 5238 | 1.677340848 | 1186 | 320 | 3122.8 | 328 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 20 | 3422 | 1.665044764 | 696 | 210 | 2055.2 | 212 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 21 | 2185 | 1.626228044 | 460 | 137 | 1343.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 22 | 2214 | 1.631179548 | 453 | 139 | 1357.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/7/2013 | 23 | 2223 | 1.640227256 | 454 | 139 | 1355.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 0 | 2235 | 1.641933588 | 457 | 139 | 1361.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 1 | 2251 | 1.650172275 | 465 | 140 | 1364.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 2 | 2266 | 1.648239744 | 468 | 141 | 1374.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 3 | 2253 | 1.634148111 | 467 | 141 | 1378.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 4 | 2255 | 1.627101522 | 479 | 142 | 1385.9 | 119 |

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|----|---------------|---|------|----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 5 | 2250 | 1.600739898 | 475 | 144 | 1405.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 6 | 2217 | 1.583119109 | 478 | 143 | 1400.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 7 | 2217 | 1.587199313 | 480 | 143 | 1396.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 8 | 2237 | 1.591944207 | 491 | 144 | 1405.2 | 123 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 9 | 3147 | 1.603566879 | 586 | 201 | 1962.5 | 190 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 10 | 5521 | 1.684515637 | 1163 | 336 | 3277.5 | 344 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 11 | 6111 | 1.719229146 | 1329 | 364 | 3554.5 | 381 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 12 | 6895 | 1.731237603 | 1493 | 408 | 3982.7 | 387 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 13 | 7089 | 1.728813559 | 1537 | 420 | 4100.5 | 386 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 14 | 6186 | 1.713383559 | 1364 | 370 | 3610.4 | 387 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 15 | 6142 | 1.70006643 | 1409 | 370 | 3612.8 | 387 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 16 | 6138 | 1.695111848 | 1408 | 371 | 3621 | 387 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 17 | 5222 | 1.704196854 | 1182 | 314 | 3064.2 | 330 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 18 | 4761 | 1.734363047 | 952 | 281 | 2745.1 | 294 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 19 | 6179 | 1.788215547 | 1240 | 354 | 3455.4 | 366 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 20 | 5115 | 1.791530945 | 1190 | 292 | 2855.1 | 304 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 21 | 4108 | 1.802782288 | 811 | 233 | 2278.7 | 240 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 22 | 2863 | 1.793634883 | 547 | 163 | 1596.2 | 154 |
| FL | Crystal River | 1 | 2013 | 9/8/2013 | 23 | 2365 | 1.737054719 | 480 | 139 | 1361.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 0 | 2482 | 1.685568761 | 500 | 151 | 1472.5 | 124 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 1 | 2335 | 1.643903126 | 542 | 145 | 1420.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 2 | 2268 | 1.595273264 | 553 | 145 | 1421.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 3 | 2220 | 1.554404145 | 561 | 146 | 1428.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 4 | 2167 | 1.521235521 | 575 | 146 | 1424.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 5 | 2206 | 1.496100373 | 573 | 151 | 1474.5 | 124 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 6 | 2033 | 1.46734031 | 559 | 142 | 1385.5 | 120 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 7 | 2258 | 1.470339259 | 563 | 157 | 1535.7 | 138 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 8 | 2517 | 1.466185123 | 547 | 176 | 1716.7 | 162 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 9 | 2743 | 1.472672608 | 542 | 191 | 1862.6 | 183 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 10 | 2658 | 1.463414634 | 572 | 186 | 1816.3 | 178 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 11 | 4407 | 1.56765794 | 851 | 288 | 2811.2 | 298 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 12 | 5529 | 1.613694072 | 1305 | 351 | 3426.3 | 368 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 13 | 6009 | 1.605568321 | 1414 | 384 | 3742.6 | 386 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 14 | 5748 | 1.607652291 | 1330 | 366 | 3575.4 | 388 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 15 | 5711 | 1.597840076 | 1336 | 366 | 3574.2 | 387 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 16 | 5680 | 1.580851656 | 1333 | 368 | 3593 | 387 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 17 | 5582 | 1.600252279 | 1322 | 357 | 3488.2 | 377 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 18 | 5351 | 1.627383595 | 1285 | 337 | 3288.1 | 352 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 19 | 5396 | 1.676088712 | 1281 | 330 | 3219.4 | 345 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 20 | 4195 | 1.682239243 | 1017 | 255 | 2493.7 | 267 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 21 | 2888 | 1.753810652 | 564 | 169 | 1646.7 | 161 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 22 | 2403 | 1.768211921 | 540 | 139 | 1359 | 120 |
| FL | Crystal River | 1 | 2013 | 9/9/2013 | 23 | 2381 | 1.738844665 | 554 | 140 | 1369.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 0 | 2363 | 1.710459645 | 560 | 141 | 1381.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 1 | 2390 | 1.700704476 | 573 | 144 | 1405.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 2 | 2391 | 1.711647219 | 581 | 143 | 1396.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 3 | 2420 | 1.720216093 | 585 | 144 | 1406.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 4 | 2484 | 1.755104925 | 593 | 145 | 1415.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 5 | 2524 | 1.760357093 | 593 | 147 | 1433.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 6 | 2486 | 1.791324398 | 588 | 142 | 1387.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 7 | 2529 | 1.800128123 | 578 | 144 | 1404.9 | 120 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 8 | 2920 | 1.822949182 | 567 | 164 | 1601.8 | 149 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 9 | 3811 | 1.838309778 | 605 | 212 | 2073.1 | 208 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 10 | 5225 | 1.779268542 | 992 | 301 | 2936.6 | 313 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 11 | 6201 | 1.761197421 | 1327 | 361 | 3520.9 | 380 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 12 | 6153 | 1.789026837 | 1303 | 352 | 3439.3 | 374 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 13 | 6261 | 1.777027219 | 1324 | 361 | 3523.3 | 382 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 14 | 6312 | 1.768612177 | 1349 | 366 | 3568.9 | 387 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 15 | 6338 | 1.775897335 | 1352 | 366 | 3568.9 | 387 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 16 | 6403 | 1.803560363 | 1352 | 364 | 3550.2 | 387 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 17 | 6002 | 1.804678574 | 1247 | 341 | 3325.8 | 360 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 18 | 5813 | 1.786526523 | 1106 | 333 | 3253.8 | 351 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 19 | 6158 | 1.764419358 | 1305 | 358 | 3490.1 | 378 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 20 | 4960 | 1.717392057 | 1074 | 296 | 2888.1 | 312 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 21 | 2877 | 1.689967105 | 572 | 174 | 1702.4 | 165 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 22 | 2494 | 1.66255583 | 507 | 153 | 1500.1 | 129 |
| FL | Crystal River | 1 | 2013 | 9/10/2013 | 23 | 2367 | 1.65408805 | 515 | 146 | 1431 | 119 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 0 | 2353 | 1.649029364 | 519 | 146 | 1426.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 1 | 2342 | 1.627858483 | 526 | 147 | 1438.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 2 | 2292 | 1.628303495 | 526 | 144 | 1407.6 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 3 | 2283 | 1.606954318 | 524 | 145 | 1420.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 4 | 2282 | 1.611695741 | 526 | 145 | 1415.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 5 | 2725 | 1.633007731 | 512 | 171 | 1668.7 | 151 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 6 | 2351 | 1.634682242 | 545 | 147 | 1438.2 | 125 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 7 | 2427 | 1.633133706 | 552 | 152 | 1486.1 | 128 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 8 | 3184 | 1.647010139 | 566 | 198 | 1933.2 | 191 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 9 | 5257 | 1.690190657 | 948 | 319 | 3110.3 | 333 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 10 | 5949 | 1.698743575 | 1320 | 359 | 3502 | 379 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 11 | 5829 | 1.666857306 | 1314 | 358 | 3497 | 380 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 12 | 5352 | 1.692920858 | 1248 | 324 | 3161.4 | 345 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 13 | 5235 | 1.711119827 | 1070 | 313 | 3059.4 | 335 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 14 | 6019 | 1.726620769 | 1328 | 357 | 3486 | 382 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 15 | 6074 | 1.705461182 | 1353 | 365 | 3561.5 | 384 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 16 | 5982 | 1.704564883 | 1326 | 360 | 3509.4 | 383 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 17 | 5703 | 1.686828951 | 1278 | 346 | 3380.9 | 371 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 18 | 5790 | 1.706655662 | 1241 | 348 | 3392.6 | 370 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 19 | 5966 | 1.715501625 | 1311 | 356 | 3477.7 | 377 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 20 | 5408 | 1.70518682 | 1125 | 325 | 3171.5 | 344 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 21 | 5337 | 1.711619255 | 1032 | 319 | 3118.1 | 337 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 22 | 4636 | 1.680806323 | 979 | 283 | 2758.2 | 298 |
| FL | Crystal River | 1 | 2013 | 9/11/2013 | 23 | 2465 | 1.631477927 | 533 | 155 | 1510.9 | 135 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 0 | 2292 | 1.616817156 | 548 | 145 | 1417.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 1 | 2286 | 1.610085928 | 543 | 145 | 1419.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 2 | 2277 | 1.62156388 | 533 | 144 | 1404.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 3 | 2279 | 1.612081771 | 541 | 145 | 1413.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 4 | 2258 | 1.604832978 | 543 | 144 | 1407 | 119 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 5 | 2578 | 1.613872543 | 538 | 163 | 1597.4 | 143 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 6 | 2250 | 1.60944206 | 580 | 143 | 1398 | 122 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 7 | 2377 | 1.607275678 | 579 | 151 | 1478.9 | 130 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 8 | 3161 | 1.627619587 | 607 | 199 | 1942.1 | 197 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 9 | 4537 | 1.669672101 | 836 | 278 | 2717.3 | 294 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 10 | 5152 | 1.660275209 | 1104 | 318 | 3103.1 | 333 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 11 | 6129 | 1.645943551 | 1437 | 382 | 3723.7 | 366 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 12 | 6846 | 1.647772402 | 1545 | 426 | 4154.7 | 385 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 13 | 6470 | 1.648911769 | 1459 | 402 | 3923.8 | 360 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 14 | 6678 | 1.652070655 | 1523 | 414 | 4042.2 | 377 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 15 | 6659 | 1.66358549 | 1525 | 410 | 4002.8 | 383 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 16 | 5891 | 1.644795622 | 1407 | 367 | 3581.6 | 372 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 17 | 5431 | 1.647654875 | 1308 | 338 | 3296.2 | 355 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 18 | 4878 | 1.634225602 | 1041 | 306 | 2984.9 | 324 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 19 | 5347 | 1.642047723 | 1299 | 334 | 3256.3 | 351 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 20 | 3702 | 1.622119008 | 791 | 234 | 2282.2 | 243 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 21 | 2288 | 1.593536704 | 542 | 147 | 1435.8 | 124 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 22 | 2239 | 1.603638447 | 552 | 143 | 1396.2 | 120 |
| FL | Crystal River | 1 | 2013 | 9/12/2013 | 23 | 2214 | 1.601678362 | 586 | 141 | 1382.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 0 | 2185 | 1.592797784 | 581 | 140 | 1371.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 1 | 2177 | 1.591723331 | 581 | 140 | 1367.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 2 | 2208 | 1.589175184 | 591 | 142 | 1389.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 3 | 2206 | 1.589108198 | 590 | 142 | 1388.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 4 | 2217 | 1.589931153 | 596 | 143 | 1394.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 5 | 2254 | 1.588890455 | 602 | 145 | 1418.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 6 | 2206 | 1.607520222 | 590 | 140 | 1372.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 7 | 2221 | 1.622707679 | 584 | 140 | 1368.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 8 | 2323 | 1.650092343 | 547 | 144 | 1407.8 | 130 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 9 | 2817 | 1.653654241 | 565 | 174 | 1703.5 | 171 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 10 | 4820 | 1.662298248 | 919 | 297 | 2899.6 | 285 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 11 | 7046 | 1.670380731 | 1548 | 432 | 4218.2 | 386 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 12 | 7111 | 1.669248826 | 1589 | 437 | 4260 | 391 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 13 | 7081 | 1.666784361 | 1686 | 435 | 4248.3 | 392 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 14 | 7045 | 1.653911165 | 1729 | 437 | 4259.6 | 391 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 15 | 6188 | 1.640291584 | 1520 | 387 | 3772.5 | 389 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 16 | 5924 | 1.638410266 | 1435 | 371 | 3615.7 | 388 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 17 | 5441 | 1.640337655 | 1346 | 340 | 3317 | 354 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 18 | 4310 | 1.620666316 | 1047 | 272 | 2659.4 | 282 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 19 | 4482 | 1.624030727 | 1040 | 283 | 2759.8 | 291 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 20 | 2403 | 1.592761981 | 567 | 154 | 1508.7 | 144 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 21 | 2077 | 1.574558411 | 534 | 135 | 1319.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 22 | 2060 | 1.586934751 | 528 | 133 | 1298.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/13/2013 | 23 | 2067 | 1.582574075 | 523 | 134 | 1306.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 0 | 2085 | 1.58002425 | 530 | 135 | 1319.6 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 1 | 2082 | 1.579186893 | 530 | 135 | 1318.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 2 | 2083 | 1.571601026 | 535 | 136 | 1325.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 3 | 2117 | 1.577496274 | 547 | 137 | 1342 | 119 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 4 | 2120 | 1.586588834 | 549 | 137 | 1336.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 5 | 2145 | 1.575352526 | 558 | 139 | 1361.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 6 | 2117 | 1.563400044 | 549 | 138 | 1354.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 7 | 2091 | 1.567701305 | 549 | 136 | 1333.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 8 | 2494 | 1.557971014 | 550 | 164 | 1600.8 | 152 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 9 | 2627 | 1.554897899 | 581 | 173 | 1689.5 | 167 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 10 | 3734 | 1.568841645 | 778 | 244 | 2380.1 | 242 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 11 | 6559 | 1.607046602 | 1559 | 418 | 4081.4 | 369 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 12 | 6266 | 1.602393617 | 1486 | 401 | 3910.4 | 367 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 13 | 5899 | 1.610296727 | 1278 | 375 | 3663.3 | 369 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 14 | 6805 | 1.600047026 | 1501 | 436 | 4253 | 389 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 15 | 6902 | 1.625989446 | 1532 | 435 | 4244.8 | 391 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 16 | 6453 | 1.62921632 | 1485 | 406 | 3960.8 | 391 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 17 | 5800 | 1.62797878 | 1368 | 365 | 3562.7 | 381 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 18 | 5437 | 1.617817717 | 1219 | 344 | 3360.7 | 357 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 19 | 4861 | 1.612806901 | 1154 | 309 | 3014 | 322 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 20 | 3269 | 1.584355159 | 662 | 211 | 2063.3 | 216 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 21 | 2055 | 1.560957083 | 499 | 135 | 1316.5 | 124 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 22 | 2057 | 1.539209817 | 493 | 137 | 1336.4 | 122 |
| FL | Crystal River | 1 | 2013 | 9/14/2013 | 23 | 2037 | 1.544703117 | 510 | 135 | 1318.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 0 | 2057 | 1.532786885 | 540 | 137 | 1342 | 119 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 1 | 2061 | 1.537142005 | 544 | 137 | 1340.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 2 | 2078 | 1.540286117 | 547 | 138 | 1349.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 3 | 2099 | 1.523664344 | 545 | 141 | 1377.6 | 120 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 4 | 2151 | 1.532597079 | 734 | 144 | 1403.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 5 | 2176 | 1.581395349 | 679 | 141 | 1376 | 119 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 6 | 2152 | 1.580145385 | 649 | 139 | 1361.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 7 | 2274 | 1.571201548 | 686 | 148 | 1447.3 | 127 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 8 | 2661 | 1.578385432 | 748 | 173 | 1685.9 | 156 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 9 | 2604 | 1.600491703 | 771 | 166 | 1627 | 158 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 10 | 4975 | 1.650630392 | 1259 | 309 | 3014 | 316 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 11 | 6197 | 1.656199054 | 1485 | 383 | 3741.7 | 362 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 12 | 6771 | 1.665723634 | 1613 | 417 | 4064.9 | 368 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 13 | 6758 | 1.655682681 | 1575 | 418 | 4081.7 | 369 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 14 | 6651 | 1.671945701 | 1527 | 408 | 3978 | 369 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 15 | 4792 | 1.652527761 | 1217 | 297 | 2899.8 | 310 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 16 | 2930 | 1.62263942 | 678 | 185 | 1805.7 | 209 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 17 | 2227 | 1.579768745 | 555 | 144 | 1409.7 | 122 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 18 | 2391 | 1.57541016 | 499 | 155 | 1517.7 | 166 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 19 | 2171 | 1.539388783 | 555 | 144 | 1410.3 | 126 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 20 | 2196 | 1.530526903 | 586 | 147 | 1434.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 21 | 2198 | 1.528405535 | 606 | 147 | 1438.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 22 | 2189 | 1.529378886 | 601 | 146 | 1431.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/15/2013 | 23 | 2161 | 1.519690577 | 557 | 145 | 1422 | 119 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 0 | 2080 | 1.514930808 | 483 | 140 | 1373 | 119 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 1 | 2094 | 1.525127458 | 464 | 140 | 1373 | 119 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 2 | 2113 | 1.522553682 | 453 | 142 | 1387.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 3 | 2111 | 1.521112552 | 458 | 142 | 1387.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 4 | 2074 | 1.526908636 | 468 | 139 | 1358.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 5 | 2098 | 1.528040787 | 473 | 140 | 1373 | 119 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 6 | 2060 | 1.516601634 | 476 | 139 | 1358.3 | 120 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 7 | 2091 | 1.522942462 | 479 | 140 | 1373 | 122 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 8 | 3742 | 1.547431974 | 645 | 248 | 2418.2 | 226 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 9 | 5263 | 1.591328274 | 1144 | 339 | 3307.3 | 355 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 10 | 5845 | 1.594424289 | 1708 | 376 | 3665.9 | 364 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 11 | 5818 | 1.587059112 | 1352 | 376 | 3665.9 | 363 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 12 | 5861 | 1.598788838 | 1253 | 376 | 3665.9 | 364 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 13 | 5885 | 1.59148683 | 1242 | 379 | 3697.8 | 364 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 14 | 6030 | 1.589561091 | 1198 | 389 | 3793.5 | 364 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 15 | 5917 | 1.586454675 | 1305 | 382 | 3729.7 | 364 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 16 | 5885 | 1.59148683 | 1327 | 379 | 3697.8 | 363 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 17 | 5412 | 1.582594964 | 1231 | 350 | 3419.7 | 363 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 18 | 5456 | 1.588632658 | 1243 | 352 | 3434.4 | 364 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 19 | 5405 | 1.597222222 | 1177 | 347 | 3384 | 356 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 20 | 3099 | 1.550120048 | 663 | 205 | 1999.2 | 204 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 21 | 2103 | 1.519508671 | 474 | 142 | 1384 | 119 |
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 22 | 2083 | 1.510624411 | 474 | 141 | 1378.9 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/16/2013 | 23 | 2063 | 1.490606936 | 488 | 142 | 1384 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 0 | 2036 | 1.472481377 | 488 | 141 | 1382.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 1 | 1883 | 1.394711503 | 472 | 138 | 1350.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 2 | 1727 | 1.253811529 | 461 | 141 | 1377.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 3 | 1522 | 1.088308902 | 444 | 143 | 1398.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 4 | 1320 | 0.947663149 | 429 | 142 | 1392.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 5 | 1215 | 0.854610677 | 436 | 145 | 1421.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 6 | 1092 | 0.776229741 | 429 | 144 | 1406.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 7 | 1097 | 0.763024275 | 435 | 147 | 1437.7 | 120 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 8 | 1066 | 0.75618926 | 425 | 144 | 1409.7 | 123 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 9 | 1892 | 0.856496152 | 567 | 226 | 2209 | 218 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 10 | 3751 | 1.082914718 | 1208 | 355 | 3463.8 | 361 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 11 | 3784 | 1.100928108 | 1223 | 352 | 3437.1 | 364 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 12 | 3714 | 1.079745327 | 1155 | 352 | 3439.7 | 363 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 13 | 3512 | 1.024055985 | 1124 | 351 | 3429.5 | 364 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 14 | 3195 | 0.929616806 | 1110 | 352 | 3436.9 | 364 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 15 | 2906 | 0.846243448 | 1095 | 352 | 3434 | 364 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 16 | 2834 | 0.820070606 | 1078 | 354 | 3455.8 | 363 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 17 | 2256 | 0.78856304 | 921 | 293 | 2860.9 | 301 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 18 | 1108 | 0.755488886 | 491 | 150 | 1466.6 | 138 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 19 | 1012 | 0.746312684 | 417 | 139 | 1356 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 20 | 1008 | 0.74611399 | 425 | 138 | 1351 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 21 | 1018 | 0.744750896 | 429 | 140 | 1366.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 22 | 1022 | 0.737906137 | 430 | 142 | 1385 | 119 |
| FL | Crystal River | 1 | 2013 | 9/17/2013 | 23 | 1033 | 0.735859809 | 433 | 144 | 1403.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 0 | 1038 | 0.733568905 | 438 | 145 | 1415 | 119 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 1 | 1054 | 0.737630345 | 445 | 146 | 1428.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 2 | 1064 | 0.737301642 | 448 | 148 | 1443.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 3 | 1091 | 0.749673607 | 448 | 149 | 1455.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 4 | 1110 | 0.75310401 | 458 | 151 | 1473.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 5 | 1123 | 0.751874665 | 470 | 153 | 1493.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 6 | 1100 | 0.755027799 | 464 | 149 | 1456.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 7 | 1097 | 0.755821965 | 461 | 148 | 1451.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 8 | 1437 | 0.766195681 | 504 | 192 | 1875.5 | 174 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 9 | 1789 | 0.773822397 | 684 | 237 | 2311.9 | 230 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 10 | 2108 | 0.791618161 | 836 | 273 | 2662.9 | 276 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 11 | 2110 | 0.795745965 | 835 | 272 | 2651.6 | 275 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 12 | 2134 | 0.805891239 | 823 | 271 | 2648 | 275 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 13 | 2173 | 0.814834258 | 832 | 273 | 2666.8 | 275 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 14 | 2150 | 0.816187078 | 819 | 270 | 2634.2 | 275 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 15 | 2212 | 0.790056433 | 795 | 287 | 2799.8 | 287 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 16 | 2436 | 0.792298185 | 876 | 315 | 3074.6 | 315 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 17 | 2246 | 0.795917644 | 753 | 289 | 2821.9 | 296 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 18 | 1740 | 0.796776262 | 565 | 224 | 2183.8 | 224 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 19 | 1287 | 0.834792761 | 434 | 158 | 1541.7 | 138 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 20 | 1359 | 0.951147816 | 415 | 146 | 1428.8 | 120 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 21 | 1402 | 0.95037961 | 421 | 151 | 1475.2 | 124 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 22 | 1317 | 0.890165596 | 430 | 151 | 1479.5 | 121 |
| FL | Crystal River | 1 | 2013 | 9/18/2013 | 23 | 1231 | 0.832994993 | 424 | 151 | 1477.8 | 121 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 0 | 1226 | 0.806950569 | 446 | 155 | 1519.3 | 121 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 1 | 1214 | 0.787034036 | 468 | 158 | 1542.5 | 121 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 2 | 1240 | 0.798146241 | 469 | 159 | 1553.6 | 120 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 3 | 1259 | 0.799822121 | 464 | 161 | 1574.1 | 121 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 4 | 1328 | 0.833542556 | 474 | 163 | 1593.2 | 121 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 5 | 1323 | 0.850639748 | 468 | 159 | 1555.3 | 121 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 6 | 2268 | 0.892316166 | 622 | 260 | 2541.7 | 241 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 7 | 2807 | 0.872335136 | 978 | 330 | 3217.8 | 334 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 8 | 2647 | 0.828067322 | 994 | 328 | 3196.6 | 334 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 9 | 2577 | 0.811960426 | 1904 | 325 | 3173.8 | 334 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 10 | 2552 | 0.802389561 | 1036 | 326 | 3180.5 | 335 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 11 | 2483 | 0.78226899 | 882 | 325 | 3174.1 | 334 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 12 | 2543 | 0.796005885 | 936 | 327 | 3194.7 | 338 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 13 | 2726 | 0.792395791 | 1004 | 353 | 3440.2 | 362 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 14 | 2760 | 0.780609215 | 1028 | 362 | 3535.7 | 373 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 15 | 2744 | 0.776874947 | 1027 | 362 | 3532.1 | 372 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 16 | 2605 | 0.781460927 | 973 | 342 | 3333.5 | 352 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 17 | 2405 | 0.780565382 | 927 | 316 | 3081.1 | 326 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 18 | 2414 | 0.803247596 | 877 | 308 | 3005.3 | 313 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 19 | 2099 | 0.776429681 | 873 | 277 | 2703.4 | 285 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 20 | 1107 | 0.754344123 | 475 | 150 | 1467.5 | 127 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 21 | 1073 | 0.745604892 | 434 | 147 | 1439.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 22 | 1064 | 0.743276284 | 402 | 146 | 1431.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/19/2013 | 23 | 1058 | 0.738362761 | 382 | 147 | 1432.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 0 | 1049 | 0.739096738 | 380 | 145 | 1419.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 1 | 1129 | 0.739503504 | 377 | 156 | 1526.7 | 131 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 2 | 1109 | 0.734777712 | 365 | 154 | 1509.3 | 130 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 3 | 1047 | 0.741974346 | 365 | 144 | 1411.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 4 | 1038 | 0.747300216 | 359 | 142 | 1389 | 119 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 5 | 1060 | 0.747848173 | 368 | 145 | 1417.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 6 | 1945 | 0.785192362 | 844 | 254 | 2477.1 | 244 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 7 | 2702 | 0.786929171 | 1253 | 352 | 3433.6 | 359 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 8 | 2662 | 0.775121568 | 937 | 352 | 3434.3 | 363 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 9 | 2687 | 0.782834169 | 950 | 352 | 3432.4 | 363 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 10 | 2706 | 0.791482641 | 953 | 350 | 3418.9 | 364 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 11 | 2699 | 0.791379563 | 944 | 349 | 3410.5 | 364 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 12 | 2558 | 0.789286926 | 901 | 332 | 3240.9 | 346 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 13 | 2435 | 0.781902254 | 840 | 319 | 3114.2 | 328 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 14 | 2441 | 0.776152623 | 858 | 322 | 3145 | 331 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 15 | 2470 | 0.768991283 | 860 | 329 | 3212 | 337 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 16 | 2439 | 0.766402715 | 872 | 326 | 3182.4 | 334 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 17 | 2302 | 0.760639704 | 874 | 310 | 3026.4 | 319 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 18 | 2308 | 0.76464352 | 863 | 309 | 3018.4 | 318 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 19 | 2189 | 0.763888889 | 811 | 294 | 2865.6 | 303 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 20 | 1437 | 0.788650458 | 552 | 186 | 1822.1 | 183 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 21 | 1379 | 0.98338444 | 443 | 143 | 1402.3 | 122 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 22 | 1595 | 1.140507687 | 450 | 143 | 1398.5 | 122 |
| FL | Crystal River | 1 | 2013 | 9/20/2013 | 23 | 1700 | 1.213678875 | 460 | 143 | 1400.7 | 121 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 0 | 1806 | 1.276505513 | 474 | 145 | 1414.8 | 121 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 1 | 1909 | 1.347402597 | 483 | 145 | 1416.8 | 121 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 2 | 1834 | 1.289098194 | 490 | 146 | 1422.7 | 120 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 3 | 1806 | 1.260821 | 505 | 147 | 1432.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 4 | 1886 | 1.320266013 | 521 | 146 | 1428.5 | 120 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 5 | 2015 | 1.384594242 | 538 | 149 | 1455.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 6 | 2073 | 1.451782338 | 522 | 146 | 1427.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 7 | 2105 | 1.440005473 | 535 | 150 | 1461.8 | 126 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 8 | 2332 | 1.497271268 | 534 | 159 | 1557.5 | 145 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 9 | 2322 | 1.570616883 | 456 | 151 | 1478.4 | 138 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 10 | 2421 | 1.580080929 | 462 | 157 | 1532.2 | 145 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 11 | 3994 | 1.457557842 | 770 | 281 | 2740.2 | 284 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 12 | 5060 | 1.482262648 | 1048 | 350 | 3413.7 | 362 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 13 | 5302 | 1.543477628 | 1088 | 352 | 3435.1 | 365 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 14 | 5152 | 1.536626104 | 1015 | 344 | 3352.8 | 354 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 15 | 5174 | 1.541762269 | 1003 | 344 | 3355.9 | 355 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 16 | 5208 | 1.555880859 | 1010 | 343 | 3347.3 | 353 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 17 | 4792 | 1.560048182 | 1124 | 315 | 3071.7 | 325 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 18 | 5318 | 1.604949449 | 1173 | 340 | 3313.5 | 350 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 19 | 4566 | 1.63914417 | 1089 | 285 | 2785.6 | 296 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 20 | 2945 | 1.625365638 | 614 | 185 | 1811.9 | 180 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 21 | 2243 | 1.624067772 | 515 | 141 | 1381.1 | 122 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 22 | 2277 | 1.610780985 | 508 | 145 | 1413.6 | 127 |
| FL | Crystal River | 1 | 2013 | 9/21/2013 | 23 | 2207 | 1.606142202 | 523 | 141 | 1374.1 | 121 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 0 | 2229 | 1.592825497 | 522 | 143 | 1399.4 | 123 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 1 | 2284 | 1.592747559 | 532 | 147 | 1434 | 123 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 2 | 2335 | 1.60657768 | 536 | 149 | 1453.4 | 120 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 3 | 2297 | 1.616012382 | 520 | 145 | 1421.4 | 120 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 4 | 2281 | 1.620143476 | 518 | 144 | 1407.9 | 120 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 5 | 2302 | 1.614758698 | 521 | 146 | 1425.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 6 | 2303 | 1.613649103 | 520 | 146 | 1427.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 7 | 2372 | 1.596446359 | 521 | 152 | 1485.8 | 124 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 8 | 2847 | 1.60042723 | 540 | 182 | 1778.9 | 169 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 9 | 4546 | 1.618196704 | 868 | 288 | 2809.3 | 291 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 10 | 5332 | 1.623234291 | 1143 | 337 | 3284.8 | 347 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 11 | 5363 | 1.614826413 | 1232 | 340 | 3321.1 | 352 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 12 | 4658 | 1.598764373 | 1002 | 298 | 2913.5 | 310 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 13 | 4467 | 1.595072309 | 1039 | 287 | 2800.5 | 299 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 14 | 4706 | 1.593040181 | 1087 | 303 | 2954.1 | 310 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 15 | 5017 | 1.596855306 | 1102 | 322 | 3141.8 | 332 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 16 | 4765 | 1.593645485 | 1136 | 306 | 2990 | 320 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 17 | 4336 | 1.550786838 | 1006 | 286 | 2796 | 297 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 18 | 5024 | 1.488504385 | 1171 | 346 | 3375.2 | 356 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 19 | 3804 | 1.277796439 | 1149 | 305 | 2977 | 315 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 20 | 1698 | 1.061913696 | 543 | 164 | 1599 | 149 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 21 | 1257 | 0.872613676 | 479 | 147 | 1440.5 | 122 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 22 | 1097 | 0.772317657 | 453 | 145 | 1420.4 | 121 |
| FL | Crystal River | 1 | 2013 | 9/22/2013 | 23 | 1013 | 0.728776978 | 439 | 142 | 1390 | 120 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 0 | 1012 | 0.719823601 | 440 | 144 | 1405.9 | 120 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 1 | 1020 | 0.717450939 | 446 | 145 | 1421.7 | 121 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 2 | 1018 | 0.71119184 | 450 | 146 | 1431.4 | 121 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 3 | 1026 | 0.712104386 | 456 | 147 | 1440.8 | 121 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 4 | 1140 | 0.714643932 | 433 | 163 | 1595.2 | 138 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 5 | 1300 | 0.719504096 | 404 | 185 | 1806.8 | 162 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 6 | 1548 | 0.790199081 | 509 | 201 | 1959 | 185 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 7 | 2191 | 0.809921632 | 697 | 277 | 2705.2 | 275 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 8 | 2067 | 0.770463695 | 689 | 275 | 2682.8 | 276 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 9 | 1991 | 0.746140009 | 683 | 273 | 2668.4 | 276 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 10 | 2028 | 0.763180672 | 680 | 272 | 2657.3 | 275 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 11 | 1971 | 0.753901469 | 669 | 268 | 2614.4 | 276 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 12 | 1955 | 0.747981788 | 669 | 268 | 2613.7 | 276 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 13 | 1958 | 0.748814441 | 661 | 268 | 2614.8 | 275 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 14 | 1745 | 0.744422166 | 607 | 240 | 2344.1 | 238 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 15 | 1028 | 0.716326388 | 460 | 147 | 1435.1 | 120 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 16 | 1034 | 0.712219314 | 461 | 149 | 1451.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 17 | 1042 | 0.712673552 | 467 | 150 | 1462.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 18 | 1037 | 0.709690665 | 458 | 149 | 1461.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 19 | 1037 | 0.707174032 | 460 | 150 | 1466.4 | 118 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 20 | 1052 | 0.707464694 | 453 | 152 | 1487 | 119 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 21 | 1096 | 0.732375543 | 454 | 153 | 1496.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 22 | 1126 | 0.738748196 | 431 | 156 | 1524.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/23/2013 | 23 | 1126 | 0.720824531 | 432 | 160 | 1562.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 0 | 1139 | 0.717435122 | 441 | 162 | 1587.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 1 | 1138 | 0.717121432 | 442 | 162 | 1586.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 2 | 1157 | 0.718722823 | 450 | 165 | 1609.8 | 120 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 3 | 1190 | 0.737252958 | 471 | 165 | 1614.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 4 | 1176 | 0.721738063 | 474 | 167 | 1629.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 5 | 1207 | 0.752869261 | 463 | 164 | 1603.2 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 6 | 2077 | 0.775781571 | 701 | 274 | 2677.3 | 258 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 7 | 2525 | 0.775681986 | 999 | 334 | 3255.2 | 334 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 8 | 2430 | 0.747922438 | 1000 | 333 | 3249 | 335 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 9 | 2410 | 0.747541797 | 1015 | 330 | 3223.9 | 335 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 10 | 2394 | 0.747470963 | 1012 | 328 | 3202.8 | 335 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 11 | 2382 | 0.746170473 | 1008 | 327 | 3192.3 | 335 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 12 | 2388 | 0.746833464 | 1013 | 328 | 3197.5 | 335 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 13 | 2397 | 0.745776423 | 1015 | 329 | 3214.1 | 335 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 14 | 2412 | 0.755804844 | 1030 | 327 | 3191.3 | 335 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 15 | 2164 | 0.75937818 | 954 | 292 | 2849.7 | 297 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 16 | 2030 | 0.754562688 | 882 | 276 | 2690.3 | 278 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 17 | 2022 | 0.75097493 | 880 | 276 | 2692.5 | 279 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 18 | 2466 | 0.7487248 | 1001 | 337 | 3293.6 | 338 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 19 | 2147 | 0.749991267 | 1027 | 293 | 2862.7 | 300 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 20 | 1586 | 0.742578893 | 779 | 219 | 2135.8 | 218 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 21 | 1202 | 0.81524688 | 608 | 151 | 1474.4 | 124 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 22 | 1497 | 0.941924118 | 599 | 163 | 1589.3 | 141 |
| FL | Crystal River | 1 | 2013 | 9/24/2013 | 23 | 1359 | 0.975662287 | 593 | 142 | 1392.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 0 | 1411 | 1.010383101 | 571 | 143 | 1396.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 1 | 1472 | 1.046569499 | 436 | 144 | 1406.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 2 | 1615 | 1.137804706 | 452 | 145 | 1419.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 3 | 1604 | 1.144161495 | 452 | 143 | 1401.9 | 120 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 4 | 1761 | 1.148727984 | 449 | 157 | 1533 | 134 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 5 | 2170 | 1.147298298 | 493 | 194 | 1891.4 | 179 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 6 | 2377 | 1.195914671 | 481 | 203 | 1987.6 | 199 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 7 | 2365 | 1.282329339 | 492 | 189 | 1844.3 | 172 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 8 | 2012 | 1.356434976 | 528 | 152 | 1483.3 | 123 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 9 | 2032 | 1.394646534 | 498 | 149 | 1457 | 122 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 10 | 1978 | 1.394037635 | 490 | 145 | 1418.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 11 | 1999 | 1.409135768 | 480 | 145 | 1418.6 | 122 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 12 | 2107 | 1.463194444 | 504 | 147 | 1440 | 128 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 13 | 2432 | 1.481301011 | 464 | 168 | 1641.8 | 155 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 14 | 2772 | 1.504151066 | 495 | 189 | 1842.9 | 181 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 15 | 2540 | 1.518957063 | 511 | 171 | 1672.2 | 159 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 16 | 2279 | 1.511975055 | 697 | 154 | 1507.3 | 138 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 17 | 2754 | 1.520958745 | 581 | 185 | 1810.7 | 173 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 18 | 4752 | 1.437777979 | 1160 | 339 | 3305.1 | 344 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 19 | 4819 | 1.457696845 | 1259 | 339 | 3305.9 | 351 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 20 | 4434 | 1.464671489 | 1201 | 310 | 3027.3 | 323 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 21 | 2700 | 1.422325238 | 880 | 194 | 1898.3 | 195 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 22 | 1982 | 1.368028713 | 640 | 148 | 1448.8 | 128 |
| FL | Crystal River | 1 | 2013 | 9/25/2013 | 23 | 1937 | 1.398959988 | 624 | 142 | 1384.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 0 | 1982 | 1.419567397 | 638 | 143 | 1396.2 | 121 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 1 | 2046 | 1.451166749 | 648 | 144 | 1409.9 | 122 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 2 | 1996 | 1.457359813 | 641 | 140 | 1369.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 3 | 2069 | 1.503415201 | 652 | 141 | 1376.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 4 | 2067 | 1.51617399 | 653 | 139 | 1363.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 5 | 2048 | 1.497732924 | 656 | 140 | 1367.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 6 | 2050 | 1.4856149 | 662 | 141 | 1379.9 | 123 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 7 | 2108 | 1.480961079 | 680 | 146 | 1423.4 | 129 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 8 | 2061 | 1.493478261 | 672 | 141 | 1380 | 123 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 9 | 2032 | 1.524152415 | 647 | 136 | 1333.2 | 124 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 10 | 2052 | 1.503847563 | 655 | 140 | 1364.5 | 125 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 11 | 3180 | 1.544889234 | 876 | 211 | 2058.4 | 209 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 12 | 5275 | 1.602758872 | 1382 | 337 | 3291.2 | 352 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 13 | 5262 | 1.616838224 | 1311 | 333 | 3254.5 | 350 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 14 | 5317 | 1.640441812 | 1303 | 332 | 3241.2 | 349 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 15 | 5442 | 1.652144874 | 1314 | 338 | 3293.9 | 354 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 16 | 4544 | 1.637536488 | 1218 | 284 | 2774.9 | 296 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 17 | 3778 | 1.60998892 | 1107 | 240 | 2346.6 | 251 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 18 | 3082 | 1.626385224 | 739 | 194 | 1895 | 198 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 19 | 2723 | 1.624604737 | 558 | 172 | 1676.1 | 156 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 20 | 2353 | 1.609659324 | 530 | 150 | 1461.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 21 | 2419 | 1.599867725 | 539 | 155 | 1512 | 119 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 22 | 2561 | 1.607355802 | 572 | 163 | 1593.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/26/2013 | 23 | 2748 | 1.600559147 | 618 | 176 | 1716.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 0 | 2838 | 1.595906203 | 627 | 182 | 1778.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 1 | 2883 | 1.591938156 | 641 | 185 | 1811 | 119 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 2 | 2921 | 1.589919443 | 657 | 188 | 1837.2 | 119 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 3 | 2866 | 1.574379257 | 653 | 186 | 1820.4 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 4 | 2896 | 1.566590934 | 647 | 189 | 1848.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 5 | 2990 | 1.56922431 | 659 | 195 | 1905.4 | 122 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 6 | 2946 | 1.569609462 | 679 | 192 | 1876.9 | 120 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 7 | 3004 | 1.57203412 | 665 | 196 | 1910.9 | 120 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 8 | 2715 | 1.589578454 | 558 | 175 | 1708 | 132 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 9 | 2588 | 1.593694193 | 553 | 166 | 1623.9 | 146 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 10 | 2444 | 1.598430347 | 501 | 156 | 1529 | 140 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 11 | 3951 | 1.627131208 | 672 | 249 | 2428.2 | 253 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 12 | 5593 | 1.649365969 | 1203 | 347 | 3391 | 363 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 13 | 5580 | 1.640549202 | 1282 | 349 | 3401.3 | 366 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 14 | 5474 | 1.646315789 | 1250 | 341 | 3325 | 359 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 15 | 5498 | 1.65184473 | 1248 | 341 | 3328.4 | 360 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 16 | 5501 | 1.638372647 | 1249 | 344 | 3357.6 | 361 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 17 | 5428 | 1.640523468 | 1220 | 339 | 3308.7 | 359 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 18 | 5394 | 1.63370385 | 1198 | 338 | 3301.7 | 354 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 19 | 5426 | 1.658819933 | 1171 | 335 | 3271 | 351 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 20 | 4698 | 1.649868306 | 1047 | 292 | 2847.5 | 304 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 21 | 3403 | 1.640711634 | 736 | 212 | 2074.1 | 213 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 22 | 2338 | 1.626661101 | 485 | 147 | 1437.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/27/2013 | 23 | 2472 | 1.623858635 | 476 | 156 | 1522.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 0 | 2574 | 1.618053809 | 486 | 163 | 1590.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 1 | 2719 | 1.605171498 | 518 | 173 | 1693.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 2 | 2781 | 1.595158885 | 538 | 178 | 1743.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 3 | 2818 | 1.586979783 | 575 | 182 | 1775.7 | 119 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 4 | 2771 | 1.553686571 | 576 | 183 | 1783.5 | 119 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 5 | 2911 | 1.552781778 | 601 | 192 | 1874.7 | 122 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 6 | 2821 | 1.541782806 | 631 | 187 | 1829.7 | 122 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 7 | 2903 | 1.537931765 | 588 | 193 | 1887.6 | 144 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 8 | 3174 | 1.55390189 | 584 | 209 | 2042.6 | 201 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 9 | 5194 | 1.596385542 | 1119 | 333 | 3253.6 | 342 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 10 | 5645 | 1.629148629 | 1337 | 355 | 3465 | 371 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 11 | 5638 | 1.646275586 | 1356 | 351 | 3424.7 | 368 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 12 | 5709 | 1.664382963 | 1327 | 351 | 3430.1 | 368 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 13 | 5724 | 1.686306858 | 1310 | 348 | 3394.4 | 365 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 14 | 5630 | 1.684872063 | 1279 | 342 | 3341.5 | 358 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 15 | 5567 | 1.67812142 | 1270 | 340 | 3317.4 | 358 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 16 | 4725 | 1.646398829 | 1257 | 294 | 2869.9 | 303 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 17 | 4445 | 1.640402997 | 1186 | 278 | 2709.7 | 286 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 18 | 5149 | 1.670505791 | 1223 | 316 | 3082.3 | 329 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 19 | 5551 | 1.670478483 | 1259 | 340 | 3323 | 354 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 20 | 4793 | 1.653328734 | 1214 | 297 | 2899 | 311 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 21 | 4336 | 1.617306975 | 1179 | 275 | 2681 | 283 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 22 | 3667 | 1.615347342 | 839 | 232 | 2270.1 | 240 |
| FL | Crystal River | 1 | 2013 | 9/28/2013 | 23 | 2392 | 1.558712368 | 604 | 157 | 1534.6 | 131 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 0 | 2391 | 1.556336653 | 568 | 157 | 1536.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 1 | 2452 | 1.549251279 | 561 | 162 | 1582.7 | 118 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 2 | 2571 | 1.545629434 | 567 | 170 | 1663.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 3 | 2623 | 1.557971014 | 572 | 172 | 1683.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 4 | 2693 | 1.569073006 | 583 | 176 | 1716.3 | 119 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 5 | 2774 | 1.577122065 | 601 | 180 | 1758.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 6 | 2761 | 1.567325159 | 609 | 180 | 1761.6 | 119 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 7 | 2844 | 1.56720119 | 566 | 186 | 1814.7 | 142 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 8 | 3015 | 1.563958917 | 551 | 197 | 1927.8 | 184 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 9 | 5038 | 1.610819798 | 972 | 320 | 3127.6 | 330 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 10 | 5762 | 1.62186506 | 1328 | 364 | 3552.7 | 383 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 11 | 5663 | 1.640403221 | 1301 | 354 | 3452.2 | 377 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 12 | 5417 | 1.638783845 | 1213 | 339 | 3305.5 | 361 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 13 | 5365 | 1.62600394 | 1197 | 338 | 3299.5 | 358 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 14 | 5407 | 1.63437415 | 1214 | 339 | 3308.3 | 359 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 15 | 5331 | 1.63127295 | 1205 | 335 | 3268 | 354 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 16 | 5283 | 1.646409873 | 1180 | 329 | 3208.8 | 349 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 17 | 5186 | 1.638650152 | 1161 | 324 | 3164.8 | 342 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 18 | 5290 | 1.648951093 | 1171 | 329 | 3208.1 | 347 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 19 | 4715 | 1.651720031 | 1070 | 292 | 2854.6 | 310 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 20 | 4455 | 1.637145377 | 963 | 279 | 2721.2 | 295 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 21 | 3824 | 1.628689467 | 828 | 240 | 2347.9 | 250 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 22 | 2615 | 1.602917739 | 482 | 167 | 1631.4 | 145 |
| FL | Crystal River | 1 | 2013 | 9/29/2013 | 23 | 2403 | 1.603068712 | 479 | 153 | 1499 | 120 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 0 | 2396 | 1.603319058 | 485 | 153 | 1494.4 | 119 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 1 | 2409 | 1.590308952 | 501 | 155 | 1514.8 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 2 | 2367 | 1.579158049 | 508 | 153 | 1498.9 | 119 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 3 | 2358 | 1.562520708 | 505 | 154 | 1509.1 | 119 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 4 | 2340 | 1.547823786 | 503 | 155 | 1511.8 | 119 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 5 | 3016 | 1.544844542 | 538 | 200 | 1952.3 | 182 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 6 | 5016 | 1.620678514 | 934 | 317 | 3095 | 323 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 7 | 5588 | 1.643771143 | 1247 | 348 | 3399.5 | 363 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 8 | 5509 | 1.639046741 | 1226 | 344 | 3361.1 | 364 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 9 | 5410 | 1.624819798 | 1198 | 341 | 3329.6 | 363 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 10 | 5373 | 1.614822829 | 1201 | 341 | 3327.3 | 364 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 11 | 5349 | 1.60780306 | 1204 | 341 | 3326.9 | 363 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 12 | 5347 | 1.61049366 | 1158 | 340 | 3320.1 | 363 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 13 | 5266 | 1.593680961 | 1093 | 339 | 3304.3 | 355 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 14 | 4443 | 1.586445762 | 1072 | 287 | 2800.6 | 302 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 15 | 4807 | 1.577099738 | 1027 | 312 | 3048 | 330 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 16 | 4493 | 1.443951665 | 1095 | 319 | 3111.6 | 334 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 17 | 3733 | 1.241477934 | 1013 | 308 | 3006.9 | 322 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 18 | 3297 | 1.025314094 | 1022 | 329 | 3215.6 | 343 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 19 | 2583 | 0.826004925 | 994 | 320 | 3127.1 | 334 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 20 | 2234 | 0.713806435 | 923 | 321 | 3129.7 | 330 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 21 | 1496 | 0.690578406 | 645 | 222 | 2166.3 | 225 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 22 | 980 | 0.663058187 | 379 | 151 | 1478 | 120 |
| FL | Crystal River | 1 | 2013 | 9/30/2013 | 23 | 984 | 0.672682527 | 383 | 150 | 1462.8 | 122 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 0 | 977 | 0.673607281 | 390 | 148 | 1450.4 | 120 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 1 | 984 | 0.674295895 | 395 | 149 | 1459.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 2 | 1004 | 0.674142214 | 408 | 152 | 1489.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 3 | 1006 | 0.672055582 | 411 | 153 | 1496.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 4 | 992 | 0.668148447 | 405 | 152 | 1484.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 5 | 1332 | 0.672150174 | 434 | 203 | 1981.7 | 182 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 6 | 2154 | 0.680869895 | 974 | 324 | 3163.6 | 326 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 7 | 2156 | 0.685227562 | 950 | 322 | 3146.4 | 333 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 8 | 2133 | 0.679862306 | 934 | 321 | 3137.4 | 334 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 9 | 2137 | 0.688266933 | 903 | 318 | 3104.9 | 334 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 10 | 2125 | 0.683125985 | 902 | 319 | 3110.7 | 333 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 11 | 2146 | 0.687445943 | 874 | 320 | 3121.7 | 333 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 12 | 2153 | 0.68792536 | 857 | 321 | 3129.7 | 334 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 13 | 2072 | 0.69316205 | 813 | 306 | 2989.2 | 316 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 14 | 2033 | 0.70183312 | 898 | 297 | 2896.7 | 306 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 15 | 2007 | 0.694247466 | 858 | 296 | 2890.9 | 309 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 16 | 2051 | 0.692671395 | 861 | 303 | 2961 | 315 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 17 | 2052 | 0.684319349 | 869 | 307 | 2998.6 | 320 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 18 | 2003 | 0.676986514 | 899 | 303 | 2958.7 | 313 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 19 | 1854 | 0.686209194 | 829 | 277 | 2701.8 | 286 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 20 | 1528 | 0.681321621 | 782 | 230 | 2242.7 | 238 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 21 | 959 | 0.656939307 | 407 | 149 | 1459.8 | 126 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 22 | 927 | 0.652036295 | 375 | 145 | 1421.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/1/2013 | 23 | 926 | 0.647643027 | 386 | 146 | 1429.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 0 | 932 | 0.644447518 | 394 | 148 | 1446.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 1 | 960 | 0.641325406 | 399 | 153 | 1496.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 2 | 965 | 0.640260085 | 414 | 154 | 1507.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 3 | 965 | 0.639284531 | 415 | 154 | 1509.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 4 | 960 | 0.638510143 | 415 | 154 | 1503.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 5 | 1438 | 0.647106471 | 513 | 228 | 2222.2 | 211 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 6 | 2142 | 0.671073655 | 970 | 327 | 3191.9 | 331 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 7 | 2091 | 0.666008409 | 935 | 322 | 3139.6 | 334 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 8 | 2062 | 0.665225667 | 905 | 318 | 3099.7 | 334 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 9 | 2057 | 0.663783923 | 830 | 317 | 3098.9 | 333 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 10 | 2044 | 0.655212207 | 889 | 320 | 3119.6 | 333 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 11 | 2024 | 0.658511192 | 836 | 315 | 3073.6 | 333 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 12 | 2048 | 0.65877509 | 833 | 319 | 3108.8 | 334 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 13 | 2046 | 0.656168821 | 848 | 319 | 3118.1 | 334 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 14 | 1805 | 0.659770451 | 804 | 280 | 2735.8 | 297 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 15 | 850 | 0.638473672 | 387 | 136 | 1331.3 | 129 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 16 | 812 | 0.634424564 | 336 | 131 | 1279.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 17 | 814 | 0.635490671 | 342 | 131 | 1280.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 18 | 825 | 0.63583815 | 350 | 133 | 1297.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 19 | 854 | 0.639508761 | 364 | 137 | 1335.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 20 | 881 | 0.643958775 | 387 | 140 | 1368.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 21 | 904 | 0.649938888 | 402 | 142 | 1390.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 22 | 939 | 0.650502251 | 410 | 148 | 1443.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/2/2013 | 23 | 978 | 0.650698603 | 420 | 154 | 1503 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 0 | 1008 | 0.653908531 | 434 | 158 | 1541.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 1 | 1030 | 0.661996272 | 445 | 159 | 1555.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 2 | 1054 | 0.663226781 | 448 | 163 | 1589.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 3 | 1105 | 0.678705239 | 455 | 167 | 1628.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 4 | 1420 | 0.689286928 | 455 | 211 | 2060.1 | 179 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 5 | 2180 | 0.694555071 | 765 | 322 | 3138.7 | 317 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 6 | 2457 | 0.715075669 | 1099 | 352 | 3436 | 362 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 7 | 2440 | 0.7082523 | 1074 | 353 | 3445.1 | 364 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 8 | 2414 | 0.706157671 | 1063 | 350 | 3418.5 | 364 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 9 | 2366 | 0.70251492 | 1030 | 345 | 3367.9 | 361 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 10 | 1774 | 0.69473272 | 817 | 262 | 2553.5 | 275 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 11 | 1615 | 0.692627697 | 701 | 239 | 2331.7 | 249 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 12 | 2097 | 0.698278446 | 873 | 308 | 3003.1 | 319 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 13 | 2348 | 0.70282567 | 1029 | 342 | 3340.8 | 357 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 14 | 2047 | 0.69973337 | 927 | 300 | 2925.4 | 312 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 15 | 2063 | 0.734738942 | 876 | 288 | 2807.8 | 299 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 16 | 2600 | 0.933438644 | 891 | 285 | 2785.4 | 298 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 17 | 3032 | 1.088064308 | 922 | 285 | 2786.6 | 298 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 18 | 3428 | 1.229026244 | 951 | 286 | 2789.2 | 298 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 19 | 3798 | 1.364616269 | 951 | 285 | 2783.2 | 299 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 20 | 4145 | 1.497741644 | 954 | 283 | 2767.5 | 298 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 21 | 4087 | 1.595985629 | 893 | 262 | 2560.8 | 278 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 22 | 2640 | 1.621721236 | 501 | 167 | 1627.9 | 158 |
| FL | Crystal River | 1 | 2013 | 10/3/2013 | 23 | 2285 | 1.64034458 | 463 | 142 | 1393 | 119 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 0 | 2285 | 1.646135005 | 456 | 142 | 1388.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 1 | 2319 | 1.680678359 | 463 | 141 | 1379.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 2 | 2375 | 1.716412517 | 474 | 142 | 1383.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 3 | 2411 | 1.717358786 | 480 | 144 | 1403.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 4 | 2392 | 1.71518715 | 485 | 143 | 1394.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 5 | 2505 | 1.724731479 | 505 | 149 | 1452.4 | 123 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 6 | 2453 | 1.723217422 | 495 | 146 | 1423.5 | 125 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 7 | 2644 | 1.729461015 | 481 | 156 | 1528.8 | 138 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 8 | 3587 | 1.747369447 | 541 | 210 | 2052.8 | 210 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 9 | 5394 | 1.687048447 | 1042 | 328 | 3197.3 | 342 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 10 | 5803 | 1.735658312 | 1106 | 343 | 3343.4 | 361 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 11 | 6000 | 1.762632197 | 1143 | 349 | 3404 | 371 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 12 | 5314 | 1.752349547 | 1028 | 311 | 3032.5 | 332 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 13 | 5937 | 1.763238395 | 1117 | 345 | 3367.1 | 364 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 14 | 6097 | 1.796193731 | 1147 | 348 | 3394.4 | 371 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 15 | 6100 | 1.800100333 | 1165 | 347 | 3388.7 | 367 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 16 | 5533 | 1.779442979 | 1088 | 319 | 3109.4 | 338 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 17 | 4921 | 1.765951339 | 969 | 285 | 2786.6 | 304 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 18 | 5374 | 1.758968316 | 1038 | 313 | 3055.2 | 330 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 19 | 5191 | 1.688899011 | 1094 | 315 | 3073.6 | 332 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 20 | 4551 | 1.594380605 | 1019 | 292 | 2854.4 | 309 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 21 | 4305 | 1.544062265 | 995 | 286 | 2788.1 | 303 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 22 | 4162 | 1.539599748 | 913 | 277 | 2703.3 | 293 |
| FL | Crystal River | 1 | 2013 | 10/4/2013 | 23 | 3057 | 1.548867609 | 637 | 202 | 1973.7 | 207 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 0 | 2177 | 1.571727673 | 508 | 142 | 1385.1 | 121 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 1 | 2172 | 1.566873467 | 493 | 142 | 1386.2 | 120 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 2 | 2159 | 1.565627266 | 479 | 141 | 1379 | 120 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 3 | 2184 | 1.579632576 | 470 | 141 | 1382.6 | 120 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 4 | 2216 | 1.610114074 | 477 | 141 | 1376.3 | 120 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 5 | 2264 | 1.634893125 | 486 | 142 | 1384.8 | 121 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 6 | 2318 | 1.653824201 | 496 | 143 | 1401.6 | 121 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 7 | 2569 | 1.664506933 | 497 | 158 | 1543.4 | 142 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 8 | 3887 | 1.691029322 | 680 | 235 | 2298.6 | 238 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 9 | 5408 | 1.678096006 | 1153 | 330 | 3222.7 | 344 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 10 | 5750 | 1.679175306 | 1205 | 351 | 3424.3 | 370 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 11 | 5706 | 1.653385877 | 1176 | 354 | 3451.1 | 373 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 12 | 5630 | 1.628249993 | 1196 | 354 | 3457.7 | 375 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 13 | 5564 | 1.609394886 | 1244 | 354 | 3457.2 | 373 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 14 | 5583 | 1.614517062 | 1224 | 354 | 3458 | 374 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 15 | 5530 | 1.603270324 | 1272 | 353 | 3449.2 | 374 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 16 | 5461 | 1.572234698 | 1271 | 356 | 3473.4 | 374 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 17 | 5380 | 1.557028333 | 1247 | 354 | 3455.3 | 373 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 18 | 4299 | 1.525983246 | 1104 | 289 | 2817.2 | 304 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 19 | 4009 | 1.516951718 | 1014 | 271 | 2642.8 | 285 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 20 | 4548 | 1.528688111 | 1032 | 305 | 2975.1 | 318 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 21 | 4083 | 1.542151382 | 812 | 271 | 2647.6 | 287 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 22 | 3160 | 1.51022749 | 690 | 214 | 2092.4 | 218 |
| FL | Crystal River | 1 | 2013 | 10/5/2013 | 23 | 2098 | 1.47954866 | 517 | 145 | 1418 | 124 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 0 | 2122 | 1.478333566 | 511 | 147 | 1435.4 | 124 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 1 | 2072 | 1.480634558 | 516 | 143 | 1399.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 2 | 2059 | 1.465793408 | 525 | 144 | 1404.7 | 120 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 3 | 2065 | 1.464435146 | 568 | 144 | 1410.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 4 | 2044 | 1.424390244 | 569 | 147 | 1435 | 120 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 5 | 2048 | 1.417987953 | 570 | 148 | 1444.3 | 120 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 6 | 1999 | 1.406656815 | 555 | 145 | 1421.1 | 120 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 7 | 2123 | 1.415899693 | 557 | 153 | 1499.4 | 133 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 8 | 2930 | 1.429756502 | 600 | 210 | 2049.3 | 204 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 9 | 4992 | 1.486510631 | 1198 | 344 | 3358.2 | 354 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 10 | 4986 | 1.500045128 | 1226 | 341 | 3323.9 | 357 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 11 | 5248 | 1.511433673 | 1229 | 356 | 3472.2 | 373 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 12 | 5243 | 1.520459357 | 1227 | 353 | 3448.3 | 370 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 13 | 5237 | 1.527668388 | 1189 | 351 | 3428.1 | 368 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 14 | 4965 | 1.539343957 | 1154 | 330 | 3225.4 | 345 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 15 | 5128 | 1.591607437 | 1163 | 330 | 3221.9 | 345 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 16 | 5129 | 1.641963057 | 1224 | 320 | 3123.7 | 336 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 17 | 4430 | 1.66104237 | 1061 | 273 | 2667 | 289 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 18 | 5520 | 1.700554529 | 1197 | 333 | 3246 | 347 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 19 | 4433 | 1.713369149 | 1053 | 265 | 2587.3 | 281 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 20 | 4071 | 1.743394287 | 758 | 239 | 2335.1 | 254 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 21 | 4138 | 1.739020803 | 742 | 244 | 2379.5 | 259 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 22 | 3025 | 1.711941143 | 622 | 181 | 1767 | 176 |
| FL | Crystal River | 1 | 2013 | 10/6/2013 | 23 | 2314 | 1.684869667 | 477 | 140 | 1373.4 | 120 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 0 | 2345 | 1.679558802 | 481 | 143 | 1396.2 | 120 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 1 | 2376 | 1.689059501 | 489 | 144 | 1406.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 2 | 2433 | 1.707368421 | 494 | 146 | 1425 | 120 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 3 | 2467 | 1.728559417 | 496 | 146 | 1427.2 | 120 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 4 | 2554 | 1.725209403 | 503 | 151 | 1480.4 | 126 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 5 | 3280 | 1.750360211 | 532 | 192 | 1873.9 | 180 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 6 | 2838 | 1.762185657 | 581 | 165 | 1610.5 | 155 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 7 | 3430 | 1.742886179 | 568 | 201 | 1968 | 194 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 8 | 5356 | 1.745705811 | 981 | 314 | 3068.1 | 326 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 9 | 6111 | 1.739241803 | 1279 | 360 | 3513.6 | 375 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 10 | 6118 | 1.76626826 | 1243 | 355 | 3463.8 | 373 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 11 | 5929 | 1.785897166 | 1178 | 340 | 3319.9 | 360 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 12 | 5991 | 1.807839705 | 1166 | 340 | 3313.9 | 359 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 13 | 6091 | 1.836740848 | 1173 | 340 | 3316.2 | 358 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 14 | 6269 | 1.88507337 | 1197 | 341 | 3325.6 | 359 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 15 | 6190 | 1.910611766 | 1195 | 332 | 3239.8 | 350 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 16 | 6270 | 1.940455558 | 1192 | 331 | 3231.2 | 349 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 17 | 6351 | 1.9614565 | 1214 | 332 | 3237.9 | 349 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 18 | 6470 | 1.990156875 | 1225 | 333 | 3251 | 349 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 19 | 6552 | 2.017676223 | 1208 | 333 | 3247.3 | 349 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 20 | 6427 | 1.980341406 | 1204 | 333 | 3245.4 | 349 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 21 | 5373 | 1.850652706 | 1094 | 297 | 2903.3 | 312 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 22 | 3930 | 1.750478821 | 752 | 230 | 2245.1 | 236 |
| FL | Crystal River | 1 | 2013 | 10/7/2013 | 23 | 2369 | 1.702112372 | 496 | 142 | 1391.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 0 | 2346 | 1.676792224 | 465 | 143 | 1399.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 1 | 2326 | 1.651050539 | 463 | 144 | 1408.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 2 | 2303 | 1.63067337 | 464 | 144 | 1412.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 3 | 2285 | 1.603959006 | 471 | 146 | 1424.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 4 | 2255 | 1.570553002 | 473 | 147 | 1435.8 | 123 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 5 | 2470 | 1.55963882 | 478 | 162 | 1583.7 | 139 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 6 | 2414 | 1.538265469 | 503 | 161 | 1569.3 | 140 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 7 | 2261 | 1.542291951 | 482 | 150 | 1466 | 126 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 8 | 2326 | 1.546953977 | 470 | 154 | 1503.6 | 134 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 9 | 2698 | 1.57134537 | 473 | 176 | 1717 | 163 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 10 | 2477 | 1.60802389 | 486 | 158 | 1540.4 | 143 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 11 | 4974 | 1.683248731 | 877 | 303 | 2955 | 312 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 12 | 5877 | 1.694978802 | 1192 | 355 | 3467.3 | 372 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 13 | 5860 | 1.69178359 | 1181 | 355 | 3463.8 | 374 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 14 | 5861 | 1.682406637 | 1187 | 357 | 3483.7 | 374 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 15 | 5259 | 1.655491548 | 1140 | 325 | 3176.7 | 343 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 16 | 5101 | 1.645271578 | 1023 | 318 | 3100.4 | 335 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 17 | 5511 | 1.66626353 | 1167 | 339 | 3307.4 | 360 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 18 | 5653 | 1.676850973 | 1190 | 345 | 3371.2 | 362 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 19 | 5559 | 1.669519777 | 1178 | 341 | 3329.7 | 356 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 20 | 4832 | 1.635415962 | 1108 | 303 | 2954.6 | 319 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 21 | 3415 | 1.563358359 | 766 | 224 | 2184.4 | 228 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 22 | 2196 | 1.495709031 | 481 | 150 | 1468.2 | 121 |
| FL | Crystal River | 1 | 2013 | 10/8/2013 | 23 | 2222 | 1.454664484 | 491 | 156 | 1527.5 | 120 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 0 | 2323 | 1.419839863 | 513 | 167 | 1636.1 | 120 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 1 | 2375 | 1.412009512 | 531 | 172 | 1682 | 120 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 2 | 2432 | 1.405455386 | 567 | 177 | 1730.4 | 120 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 3 | 2502 | 1.400033574 | 605 | 183 | 1787.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 4 | 2556 | 1.406482144 | 617 | 186 | 1817.3 | 120 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 5 | 2768 | 1.40357994 | 635 | 202 | 1972.1 | 130 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 6 | 2669 | 1.403924044 | 646 | 195 | 1901.1 | 120 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 7 | 2752 | 1.422369237 | 652 | 198 | 1934.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 8 | 2479 | 1.411972433 | 600 | 180 | 1755.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 9 | 2329 | 1.398630795 | 577 | 170 | 1665.2 | 120 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 10 | 2138 | 1.396472894 | 531 | 157 | 1531 | 120 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 11 | 1994 | 1.400969578 | 489 | 146 | 1423.3 | 121 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 12 | 1974 | 1.404082794 | 476 | 144 | 1405.9 | 121 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 13 | 2040 | 1.425178147 | 483 | 146 | 1431.4 | 123 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 14 | 2174 | 1.421937341 | 469 | 156 | 1528.9 | 138 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 15 | 2104 | 1.456256921 | 504 | 148 | 1444.8 | 127 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 16 | 2233 | 1.480278422 | 523 | 154 | 1508.5 | 127 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 17 | 2284 | 1.514588859 | 512 | 154 | 1508 | 128 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 18 | 3412 | 1.557990868 | 556 | 224 | 2190 | 207 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 19 | 3492 | 1.583529839 | 582 | 226 | 2205.2 | 196 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 20 | 3260 | 1.564900154 | 670 | 213 | 2083.2 | 149 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 21 | 3056 | 1.561813257 | 747 | 200 | 1956.7 | 121 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 22 | 3118 | 1.536036258 | 726 | 208 | 2029.9 | 121 |
| FL | Crystal River | 1 | 2013 | 10/9/2013 | 23 | 3114 | 1.502388189 | 706 | 212 | 2072.7 | 122 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 0 | 2970 | 1.47299509 | 691 | 206 | 2016.3 | 120 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 1 | 2800 | 1.419878296 | 684 | 202 | 1972 | 119 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 2 | 2595 | 1.348892816 | 698 | 197 | 1923.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 3 | 2457 | 1.253955292 | 728 | 201 | 1959.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 4 | 2367 | 1.208516287 | 738 | 201 | 1958.6 | 121 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 5 | 2413 | 1.162779491 | 753 | 212 | 2075.2 | 128 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 6 | 2215 | 1.097512635 | 791 | 207 | 2018.2 | 126 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 7 | 2083 | 1.074486743 | 730 | 198 | 1938.6 | 122 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 8 | 1852 | 1.072131527 | 613 | 177 | 1727.4 | 127 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 9 | 1692 | 1.074899943 | 543 | 161 | 1574.1 | 132 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 10 | 1707 | 1.07297756 | 512 | 163 | 1590.9 | 146 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 11 | 3577 | 1.233320691 | 838 | 297 | 2900.3 | 308 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 12 | 4375 | 1.325396104 | 1204 | 338 | 3300.9 | 359 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 13 | 4441 | 1.326265492 | 1192 | 343 | 3348.5 | 365 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 14 | 4453 | 1.328976035 | 1229 | 343 | 3350.7 | 365 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 15 | 4425 | 1.336817619 | 1194 | 339 | 3310.1 | 359 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 16 | 4492 | 1.356525941 | 1165 | 339 | 3311.4 | 359 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 17 | 4589 | 1.391196265 | 1062 | 338 | 3298.6 | 358 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 18 | 4403 | 1.408058842 | 991 | 320 | 3127 | 339 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 19 | 4162 | 1.371018217 | 944 | 311 | 3035.7 | 329 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 20 | 3908 | 1.29640073 | 937 | 309 | 3014.5 | 325 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 21 | 2565 | 1.222651223 | 618 | 215 | 2097.9 | 226 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 22 | 1946 | 1.169541439 | 592 | 170 | 1663.9 | 162 |
| FL | Crystal River | 1 | 2013 | 10/10/2013 | 23 | 1582 | 1.125978648 | 607 | 144 | 1405 | 118 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 0 | 1590 | 1.096400496 | 604 | 148 | 1450.2 | 118 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 1 | 1603 | 1.077284946 | 596 | 152 | 1488 | 119 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 2 | 1552 | 1.075388027 | 578 | 148 | 1443.2 | 118 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 3 | 1663 | 1.080852723 | 610 | 157 | 1538.6 | 118 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 4 | 1776 | 1.088635528 | 660 | 167 | 1631.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 5 | 1786 | 1.095772747 | 653 | 167 | 1629.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 6 | 1686 | 1.101888765 | 622 | 157 | 1530.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 7 | 1502 | 1.099480272 | 560 | 140 | 1366.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 8 | 1463 | 1.106489185 | 542 | 135 | 1322.2 | 121 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 9 | 1461 | 1.113567073 | 549 | 134 | 1312 | 124 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 10 | 1751 | 1.115855213 | 566 | 161 | 1569.2 | 153 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 11 | 2591 | 1.145142756 | 685 | 232 | 2262.6 | 238 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 12 | 3803 | 1.189032016 | 997 | 328 | 3198.4 | 346 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 13 | 3980 | 1.216604512 | 1046 | 335 | 3271.4 | 353 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 14 | 3939 | 1.238796113 | 1011 | 326 | 3179.7 | 344 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 15 | 3934 | 1.25214845 | 983 | 322 | 3141.8 | 339 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 16 | 3941 | 1.254975639 | 989 | 322 | 3140.3 | 338 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 17 | 3908 | 1.261296153 | 985 | 317 | 3098.4 | 336 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 18 | 3267 | 1.259687681 | 907 | 266 | 2593.5 | 283 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 19 | 2107 | 1.289473684 | 629 | 167 | 1634 | 163 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 20 | 1788 | 1.316351322 | 487 | 139 | 1358.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 21 | 1965 | 1.320298327 | 480 | 152 | 1488.3 | 137 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 22 | 1821 | 1.350790001 | 485 | 138 | 1348.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/11/2013 | 23 | 1925 | 1.380324107 | 514 | 143 | 1394.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 0 | 1958 | 1.376546682 | 520 | 145 | 1422.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 1 | 2052 | 1.383495146 | 536 | 152 | 1483.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 2 | 2026 | 1.374584436 | 530 | 151 | 1473.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 3 | 1981 | 1.363573789 | 527 | 149 | 1452.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 4 | 2036 | 1.347898047 | 543 | 155 | 1510.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 5 | 2253 | 1.33701264 | 596 | 172 | 1685.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 6 | 2156 | 1.341797361 | 568 | 164 | 1606.8 | 121 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 7 | 1925 | 1.356111307 | 495 | 145 | 1419.5 | 126 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 8 | 1959 | 1.356366406 | 478 | 148 | 1444.3 | 137 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 9 | 2201 | 1.354628262 | 487 | 166 | 1624.8 | 156 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 10 | 2090 | 1.333163233 | 509 | 160 | 1567.7 | 152 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 11 | 2766 | 1.317770367 | 520 | 215 | 2099 | 219 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 12 | 4077 | 1.300271089 | 1009 | 321 | 3135.5 | 336 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 13 | 4231 | 1.288446312 | 1086 | 336 | 3283.8 | 355 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 14 | 4321 | 1.302055083 | 1071 | 340 | 3318.6 | 359 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 15 | 4150 | 1.313706869 | 998 | 324 | 3159 | 341 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 16 | 4093 | 1.343332568 | 981 | 312 | 3046.9 | 330 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 17 | 3380 | 1.363673041 | 815 | 254 | 2478.6 | 271 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 18 | 2787 | 1.362036947 | 603 | 209 | 2046.2 | 216 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 19 | 2370 | 1.380073371 | 518 | 176 | 1717.3 | 170 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 20 | 1878 | 1.370602832 | 530 | 140 | 1370.2 | 121 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 21 | 1953 | 1.359838463 | 610 | 147 | 1436.2 | 123 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 22 | 1917 | 1.378541637 | 581 | 142 | 1390.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/12/2013 | 23 | 2025 | 1.435762904 | 605 | 144 | 1410.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 0 | 2117 | 1.516584283 | 614 | 143 | 1395.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 1 | 2222 | 1.60839667 | 618 | 141 | 1381.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 2 | 2449 | 1.677971908 | 661 | 149 | 1459.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 3 | 2601 | 1.719555732 | 701 | 155 | 1512.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 4 | 3053 | 1.73584262 | 833 | 180 | 1758.8 | 119 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 5 | 3194 | 1.755427315 | 855 | 186 | 1819.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 6 | 3098 | 1.766248575 | 806 | 180 | 1754 | 119 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 7 | 2841 | 1.786680083 | 729 | 163 | 1590.1 | 121 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 8 | 2899 | 1.794268738 | 659 | 165 | 1615.7 | 148 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 9 | 2531 | 1.808244624 | 655 | 143 | 1399.7 | 132 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 10 | 2739 | 1.779149074 | 688 | 157 | 1539.5 | 147 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 11 | 4083 | 1.779240021 | 876 | 235 | 2294.8 | 245 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 12 | 5351 | 1.640857379 | 1072 | 334 | 3261.1 | 352 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 13 | 5052 | 1.589428976 | 1096 | 326 | 3178.5 | 347 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 14 | 4556 | 1.570330541 | 1053 | 297 | 2901.3 | 317 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 15 | 4986 | 1.591496696 | 1058 | 321 | 3132.9 | 340 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 16 | 4710 | 1.612682326 | 1045 | 299 | 2920.6 | 318 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 17 | 5215 | 1.649585627 | 1160 | 324 | 3161.4 | 344 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 18 | 5369 | 1.686349645 | 1197 | 326 | 3183.8 | 347 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 19 | 4808 | 1.6994804 | 1168 | 290 | 2829.1 | 308 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 20 | 2448 | 1.665532726 | 749 | 150 | 1469.8 | 138 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 21 | 2280 | 1.675238795 | 691 | 139 | 1361 | 121 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 22 | 2371 | 1.666901012 | 715 | 145 | 1422.4 | 120 |
| FL | Crystal River | 1 | 2013 | 10/13/2013 | 23 | 2540 | 1.652247447 | 787 | 157 | 1537.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 0 | 2641 | 1.64538035 | 839 | 164 | 1605.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 1 | 2666 | 1.628688374 | 890 | 167 | 1636.9 | 120 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 2 | 2817 | 1.648525281 | 929 | 175 | 1708.8 | 118 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 3 | 2907 | 1.643022664 | 999 | 181 | 1769.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 4 | 2932 | 1.605783449 | 989 | 187 | 1825.9 | 120 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 5 | 2997 | 1.606195402 | 1039 | 191 | 1865.9 | 118 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 6 | 3010 | 1.579969555 | 1045 | 195 | 1905.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 7 | 2851 | 1.557327798 | 988 | 187 | 1830.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 8 | 2479 | 1.553452814 | 876 | 163 | 1595.8 | 120 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 9 | 2248 | 1.556032394 | 774 | 148 | 1444.7 | 127 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 10 | 2379 | 1.545005845 | 796 | 158 | 1539.8 | 142 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 11 | 2867 | 1.613938302 | 934 | 182 | 1776.4 | 177 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 12 | 5378 | 1.713393654 | 1330 | 322 | 3138.8 | 336 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 13 | 5464 | 1.775813319 | 1280 | 315 | 3076.9 | 336 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 14 | 6248 | 1.826046294 | 1348 | 351 | 3421.6 | 369 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 15 | 6403 | 1.880193804 | 1321 | 349 | 3405.5 | 370 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 16 | 6513 | 1.925271217 | 1282 | 347 | 3382.9 | 367 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 17 | 6486 | 1.931046802 | 1246 | 344 | 3358.8 | 364 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 18 | 6445 | 1.908837815 | 1232 | 346 | 3376.4 | 364 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 19 | 5190 | 1.866772175 | 1059 | 285 | 2780.2 | 301 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 20 | 4899 | 1.859203036 | 953 | 270 | 2635 | 283 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 21 | 4319 | 1.84061368 | 896 | 240 | 2346.5 | 248 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 22 | 2960 | 1.783454841 | 710 | 170 | 1659.7 | 127 |
| FL | Crystal River | 1 | 2013 | 10/14/2013 | 23 | 3296 | 1.841546542 | 735 | 183 | 1789.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 0 | 3510 | 1.890552623 | 757 | 190 | 1856.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 1 | 3684 | 1.914362918 | 796 | 197 | 1924.4 | 120 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 2 | 3680 | 1.901022833 | 797 | 198 | 1935.8 | 120 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 3 | 3688 | 1.888376856 | 789 | 200 | 1953 | 121 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 4 | 3721 | 1.862828536 | 787 | 204 | 1997.5 | 125 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 5 | 4303 | 1.854501573 | 740 | 238 | 2320.3 | 159 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 6 | 3533 | 1.782093317 | 800 | 203 | 1982.5 | 127 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 7 | 3418 | 1.763128031 | 785 | 198 | 1938.6 | 120 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 8 | 3202 | 1.754616691 | 755 | 187 | 1824.9 | 121 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 9 | 2872 | 1.74812831 | 662 | 168 | 1642.9 | 120 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 10 | 2521 | 1.750816029 | 596 | 147 | 1439.9 | 120 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 11 | 2568 | 1.757579906 | 606 | 149 | 1461.1 | 123 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 12 | 2522 | 1.757368824 | 615 | 147 | 1435.1 | 122 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 13 | 2619 | 1.74112485 | 628 | 154 | 1504.2 | 132 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 14 | 3563 | 1.772460452 | 782 | 206 | 2010.2 | 200 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 15 | 5338 | 1.85476025 | 1171 | 295 | 2878 | 302 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 16 | 6020 | 1.840190744 | 1256 | 335 | 3271.4 | 347 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 17 | 4270 | 1.809015421 | 1111 | 242 | 2360.4 | 250 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 18 | 4105 | 1.739333079 | 899 | 242 | 2360.1 | 229 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 19 | 4465 | 1.734182623 | 826 | 264 | 2574.7 | 244 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 20 | 3039 | 1.699569375 | 717 | 183 | 1788.1 | 122 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 21 | 3133 | 1.710432931 | 694 | 187 | 1831.7 | 120 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 22 | 3133 | 1.741523068 | 678 | 184 | 1799 | 119 |
| FL | Crystal River | 1 | 2013 | 10/15/2013 | 23 | 3324 | 1.790658837 | 705 | 190 | 1856.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 0 | 3388 | 1.833035763 | 704 | 189 | 1848.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 1 | 3462 | 1.885929073 | 706 | 188 | 1835.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 2 | 3513 | 1.909446679 | 719 | 188 | 1839.8 | 119 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 3 | 3581 | 1.937036837 | 722 | 189 | 1848.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 4 | 3689 | 1.970093458 | 730 | 192 | 1872.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 5 | 3826 | 1.978078792 | 760 | 198 | 1934.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 6 | 3805 | 2.010886798 | 751 | 194 | 1892.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 7 | 3626 | 2.040288094 | 702 | 182 | 1777.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 8 | 3376 | 1.955514365 | 842 | 177 | 1726.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 9 | 2601 | 1.878520872 | 722 | 142 | 1384.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 10 | 2458 | 1.863674274 | 641 | 135 | 1318.9 | 122 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 11 | 3079 | 1.852587244 | 741 | 170 | 1662 | 162 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 12 | 4714 | 1.905031319 | 1163 | 253 | 2474.5 | 264 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 13 | 6664 | 1.981151708 | 1483 | 345 | 3363.7 | 364 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 14 | 7278 | 2.042144841 | 1464 | 365 | 3563.9 | 387 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 15 | 7475 | 2.06514532 | 1469 | 371 | 3619.6 | 390 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 16 | 7561 | 2.114728422 | 1490 | 366 | 3575.4 | 385 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 17 | 7545 | 2.143953171 | 1467 | 361 | 3519.2 | 380 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 18 | 7610 | 2.140165364 | 1450 | 364 | 3555.8 | 380 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 19 | 7680 | 2.165271082 | 1443 | 363 | 3546.9 | 381 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 20 | 7571 | 2.127821028 | 1430 | 365 | 3558.1 | 381 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 21 | 7338 | 2.079578303 | 1386 | 362 | 3528.6 | 381 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 22 | 5307 | 1.954480168 | 1099 | 278 | 2715.3 | 294 |
| FL | Crystal River | 1 | 2013 | 10/16/2013 | 23 | 2466 | 1.740296401 | 566 | 145 | 1417 | 126 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 0 | 2123 | 1.501626821 | 490 | 145 | 1413.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 1 | 1840 | 1.26122421 | 482 | 149 | 1458.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 2 | 1629 | 1.081816974 | 481 | 154 | 1505.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 3 | 1482 | 0.954527889 | 478 | 159 | 1552.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 4 | 1366 | 0.877271852 | 468 | 159 | 1557.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 5 | 1369 | 0.828692494 | 490 | 169 | 1652 | 119 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 6 | 1302 | 0.786231884 | 483 | 169 | 1656 | 119 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 7 | 1203 | 0.758368531 | 469 | 162 | 1586.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 8 | 1001 | 0.740275107 | 396 | 138 | 1352.2 | 121 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 9 | 1452 | 0.788873194 | 450 | 188 | 1840.6 | 184 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 10 | 3021 | 1.124511446 | 878 | 275 | 2686.5 | 284 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 11 | 4176 | 1.279529369 | 1214 | 334 | 3263.7 | 337 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 12 | 4931 | 1.20444553 | 1473 | 420 | 4094 | 379 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 13 | 4359 | 1.168444754 | 1298 | 382 | 3730.6 | 372 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 14 | 3718 | 1.109950145 | 1159 | 343 | 3349.7 | 359 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 15 | 3678 | 1.098369468 | 1151 | 343 | 3348.6 | 359 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 16 | 3831 | 1.146010949 | 1166 | 343 | 3342.9 | 356 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 17 | 3979 | 1.203569268 | 1183 | 339 | 3306 | 352 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 18 | 4205 | 1.266871535 | 1208 | 340 | 3319.2 | 354 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 19 | 4469 | 1.339628297 | 1217 | 342 | 3336 | 354 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 20 | 4753 | 1.42831385 | 1231 | 341 | 3327.7 | 354 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 21 | 3911 | 1.460963765 | 1003 | 274 | 2677 | 290 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 22 | 2070 | 1.547085202 | 524 | 137 | 1338 | 125 |
| FL | Crystal River | 1 | 2013 | 10/17/2013 | 23 | 1997 | 1.515404462 | 471 | 135 | 1317.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 0 | 1979 | 1.514618093 | 471 | 134 | 1306.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 1 | 2062 | 1.493986379 | 488 | 141 | 1380.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 2 | 1985 | 1.510079878 | 465 | 134 | 1314.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 3 | 1947 | 1.496771218 | 454 | 133 | 1300.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 4 | 1958 | 1.514307811 | 452 | 132 | 1293 | 119 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 5 | 2380 | 1.524175472 | 485 | 160 | 1561.5 | 152 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 6 | 2614 | 1.539639534 | 536 | 174 | 1697.8 | 177 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 7 | 2008 | 1.505811774 | 500 | 136 | 1333.5 | 124 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 8 | 2699 | 1.525720746 | 523 | 181 | 1769 | 180 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 9 | 4247 | 1.500600664 | 823 | 290 | 2830.2 | 301 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 10 | 5230 | 1.492281793 | 1247 | 359 | 3504.7 | 376 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 11 | 5300 | 1.509240539 | 1253 | 360 | 3511.7 | 380 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 12 | 5141 | 1.531153205 | 1191 | 344 | 3357.6 | 359 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 13 | 5361 | 1.556846232 | 1229 | 353 | 3443.5 | 370 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 14 | 5352 | 1.561032522 | 1230 | 351 | 3428.5 | 367 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 15 | 5343 | 1.574944731 | 1207 | 348 | 3392.5 | 364 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 16 | 5316 | 1.574131651 | 1148 | 346 | 3377.1 | 362 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 17 | 5066 | 1.593332285 | 1071 | 326 | 3179.5 | 341 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 18 | 5112 | 1.608660079 | 1118 | 326 | 3177.8 | 340 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 19 | 5036 | 1.62033462 | 1087 | 318 | 3108 | 334 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 20 | 4931 | 1.636357603 | 1033 | 309 | 3013.4 | 322 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 21 | 4396 | 1.627244124 | 967 | 277 | 2701.5 | 289 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 22 | 2756 | 1.605125218 | 657 | 176 | 1717 | 175 |
| FL | Crystal River | 1 | 2013 | 10/18/2013 | 23 | 2087 | 1.577237001 | 471 | 135 | 1323.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 0 | 2069 | 1.575540664 | 449 | 134 | 1313.2 | 120 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 1 | 2089 | 1.57387177 | 442 | 136 | 1327.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 2 | 2110 | 1.572514533 | 433 | 137 | 1341.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 3 | 2109 | 1.561297009 | 440 | 138 | 1350.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 4 | 2136 | 1.572901325 | 453 | 139 | 1358 | 119 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 5 | 2382 | 1.583250249 | 484 | 154 | 1504.5 | 131 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 6 | 2247 | 1.580391054 | 472 | 145 | 1421.8 | 122 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 7 | 2492 | 1.58524173 | 429 | 161 | 1572 | 145 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 8 | 3606 | 1.591420628 | 561 | 232 | 2265.9 | 236 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 9 | 4365 | 1.61493211 | 827 | 277 | 2702.9 | 288 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 10 | 4312 | 1.624901082 | 825 | 272 | 2653.7 | 285 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 11 | 4685 | 1.611294538 | 959 | 298 | 2907.6 | 310 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 12 | 5509 | 1.618104917 | 1195 | 349 | 3404.6 | 362 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 13 | 5041 | 1.601029029 | 1161 | 323 | 3148.6 | 336 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 14 | 5583 | 1.587432471 | 1206 | 360 | 3517 | 373 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 15 | 5338 | 1.560590557 | 1231 | 350 | 3420.5 | 362 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 16 | 4311 | 1.551277438 | 956 | 285 | 2779 | 298 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 17 | 4430 | 1.579435254 | 956 | 287 | 2804.8 | 299 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 18 | 5648 | 1.624996404 | 1195 | 356 | 3475.7 | 368 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 19 | 5654 | 1.628503125 | 1256 | 356 | 3471.9 | 369 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 20 | 5256 | 1.628051047 | 1194 | 331 | 3228.4 | 344 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 21 | 4169 | 1.607790204 | 905 | 266 | 2593 | 279 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 22 | 2303 | 1.561355932 | 482 | 151 | 1475 | 141 |
| FL | Crystal River | 1 | 2013 | 10/19/2013 | 23 | 2029 | 1.539336924 | 446 | 135 | 1318.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 0 | 2034 | 1.560174887 | 439 | 133 | 1303.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 1 | 2038 | 1.565524658 | 441 | 133 | 1301.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 2 | 2072 | 1.554621849 | 451 | 136 | 1332.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 3 | 2095 | 1.539083162 | 458 | 139 | 1361.2 | 120 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 4 | 2155 | 1.516217547 | 464 | 145 | 1421.3 | 120 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 5 | 2274 | 1.484915763 | 508 | 157 | 1531.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 6 | 2245 | 1.447733282 | 525 | 159 | 1550.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 7 | 2367 | 1.404831147 | 574 | 172 | 1684.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 8 | 2474 | 1.397424311 | 524 | 181 | 1770.4 | 151 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 9 | 2745 | 1.398013751 | 606 | 201 | 1963.5 | 184 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 10 | 2036 | 1.378749915 | 518 | 151 | 1476.7 | 128 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 11 | 2077 | 1.370957096 | 515 | 155 | 1515 | 136 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 12 | 3950 | 1.442079515 | 819 | 281 | 2739.1 | 283 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 13 | 5562 | 1.542942743 | 1304 | 369 | 3604.8 | 382 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 14 | 5561 | 1.581806804 | 1293 | 360 | 3515.6 | 374 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 15 | 5542 | 1.584198039 | 1280 | 358 | 3498.3 | 372 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 16 | 5253 | 1.577524851 | 1232 | 341 | 3329.9 | 354 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 17 | 4971 | 1.562519645 | 1158 | 326 | 3181.4 | 340 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 18 | 5161 | 1.566217529 | 1159 | 338 | 3295.2 | 350 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 19 | 5079 | 1.563346466 | 1163 | 333 | 3248.8 | 344 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 20 | 4238 | 1.599064257 | 877 | 271 | 2650.3 | 281 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 21 | 3353 | 1.639849367 | 635 | 209 | 2044.7 | 208 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 22 | 2583 | 1.665377176 | 490 | 159 | 1551 | 128 |
| FL | Crystal River | 1 | 2013 | 10/20/2013 | 23 | 2641 | 1.677784131 | 516 | 161 | 1574.1 | 120 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 0 | 2737 | 1.698839302 | 534 | 165 | 1611.1 | 120 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 1 | 2794 | 1.694976947 | 557 | 169 | 1648.4 | 120 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 2 | 2723 | 1.679930903 | 640 | 166 | 1620.9 | 111 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 3 | 2586 | 1.666988977 | 705 | 159 | 1551.3 | 102 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 4 | 2610 | 1.675439723 | 688 | 159 | 1557.8 | 103 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 5 | 2581 | 1.654805411 | 684 | 160 | 1559.7 | 103 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 6 | 2512 | 1.629581576 | 670 | 158 | 1541.5 | 103 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 7 | 2313 | 1.603910963 | 624 | 148 | 1442.1 | 103 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 8 | 2163 | 1.581834138 | 518 | 140 | 1367.4 | 112 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 9 | 2605 | 1.5911312 | 501 | 168 | 1637.2 | 144 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 10 | 3351 | 1.59275631 | 658 | 215 | 2103.9 | 201 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 11 | 3306 | 1.557450417 | 870 | 217 | 2122.7 | 210 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 12 | 3007 | 1.540866001 | 647 | 200 | 1951.5 | 186 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 13 | 3033 | 1.539750228 | 693 | 202 | 1969.8 | 189 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 14 | 3285 | 1.531682753 | 757 | 220 | 2144.7 | 214 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 15 | 5559 | 1.560683905 | 1346 | 365 | 3561.9 | 371 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 16 | 5754 | 1.579987918 | 1380 | 373 | 3641.8 | 384 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 17 | 5619 | 1.563221589 | 1319 | 368 | 3594.5 | 378 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 18 | 5485 | 1.546202853 | 1309 | 364 | 3547.4 | 374 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 19 | 5074 | 1.523769483 | 1225 | 341 | 3329.9 | 349 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 20 | 4337 | 1.507263502 | 992 | 295 | 2877.4 | 303 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 21 | 3852 | 1.49186677 | 919 | 264 | 2582 | 272 |
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 22 | 2424 | 1.38593482 | 531 | 179 | 1749 | 170 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/21/2013 | 23 | 1913 | 1.359340581 | 463 | 144 | 1407.3 | 120 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 0 | 1899 | 1.370426499 | 460 | 142 | 1385.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 1 | 1921 | 1.361542278 | 471 | 144 | 1410.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 2 | 1888 | 1.349438925 | 498 | 143 | 1399.1 | 120 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 3 | 1913 | 1.352039013 | 498 | 145 | 1414.9 | 120 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 4 | 1943 | 1.337509465 | 462 | 149 | 1452.7 | 126 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 5 | 2277 | 1.338466964 | 474 | 174 | 1701.2 | 150 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 6 | 1956 | 1.316994344 | 494 | 152 | 1485.2 | 122 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 7 | 1929 | 1.314122215 | 477 | 150 | 1467.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 8 | 1975 | 1.319657891 | 462 | 153 | 1496.6 | 133 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 9 | 3855 | 1.421040991 | 781 | 278 | 2712.8 | 275 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 10 | 5066 | 1.484890231 | 1262 | 350 | 3411.7 | 358 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 11 | 5331 | 1.482315649 | 1309 | 369 | 3596.4 | 379 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 12 | 5213 | 1.460510464 | 1299 | 366 | 3569.3 | 375 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 13 | 5091 | 1.439558886 | 1273 | 362 | 3536.5 | 369 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 14 | 5152 | 1.450818056 | 1281 | 364 | 3551.1 | 369 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 15 | 5111 | 1.458785249 | 1268 | 359 | 3503.6 | 364 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 16 | 5040 | 1.477442617 | 1275 | 350 | 3411.3 | 358 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 17 | 5042 | 1.469413925 | 1273 | 352 | 3431.3 | 359 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 18 | 4983 | 1.454338499 | 1284 | 351 | 3426.3 | 359 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 19 | 4850 | 1.447631555 | 1266 | 343 | 3350.3 | 354 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 20 | 4259 | 1.436715693 | 1123 | 304 | 2964.4 | 314 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 21 | 3822 | 1.427024605 | 969 | 274 | 2678.3 | 284 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 22 | 2119 | 1.39352887 | 533 | 156 | 1520.6 | 138 |
| FL | Crystal River | 1 | 2013 | 10/22/2013 | 23 | 1969 | 1.412887486 | 480 | 143 | 1393.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 0 | 2121 | 1.435532995 | 515 | 151 | 1477.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 1 | 2275 | 1.460674157 | 548 | 159 | 1557.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 2 | 2568 | 1.475777254 | 600 | 178 | 1740.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 3 | 2682 | 1.496317786 | 652 | 183 | 1792.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 4 | 2826 | 1.497774009 | 692 | 193 | 1886.8 | 127 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 5 | 3543 | 1.515851624 | 670 | 239 | 2337.3 | 174 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 6 | 3052 | 1.511115512 | 807 | 207 | 2019.7 | 143 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 7 | 2637 | 1.456101601 | 807 | 185 | 1811 | 121 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 8 | 2364 | 1.445429532 | 796 | 167 | 1635.5 | 123 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 9 | 2229 | 1.46770264 | 757 | 155 | 1518.7 | 121 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 10 | 2075 | 1.475293281 | 697 | 144 | 1406.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 11 | 2491 | 1.498886816 | 714 | 170 | 1661.9 | 158 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 12 | 2469 | 1.51305307 | 703 | 167 | 1631.8 | 150 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 13 | 2334 | 1.516864886 | 661 | 157 | 1538.7 | 143 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 14 | 3379 | 1.518719942 | 1054 | 228 | 2224.9 | 230 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 15 | 4717 | 1.530350712 | 1192 | 316 | 3082.3 | 322 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 16 | 4248 | 1.518987342 | 1331 | 286 | 2796.6 | 301 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 17 | 2805 | 1.507416165 | 671 | 190 | 1860.8 | 187 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 18 | 3199 | 1.495069402 | 554 | 219 | 2139.7 | 214 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 19 | 2728 | 1.49832482 | 588 | 186 | 1820.7 | 173 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 20 | 2521 | 1.4737519 | 715 | 175 | 1710.6 | 120 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 21 | 2862 | 1.4550816 | 767 | 201 | 1966.9 | 125 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 22 | 2980 | 1.462863875 | 802 | 209 | 2037.1 | 122 |
| FL | Crystal River | 1 | 2013 | 10/23/2013 | 23 | 2990 | 1.45103368 | 797 | 211 | 2060.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 0 | 3007 | 1.436556469 | 791 | 214 | 2093.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 1 | 3004 | 1.438421758 | 799 | 214 | 2088.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 2 | 2890 | 1.430126683 | 790 | 207 | 2020.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 3 | 2855 | 1.425789053 | 784 | 205 | 2002.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 4 | 2877 | 1.431628185 | 775 | 206 | 2009.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 5 | 2932 | 1.431221322 | 778 | 210 | 2048.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 6 | 2900 | 1.44739469 | 795 | 205 | 2003.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 7 | 2967 | 1.44830616 | 813 | 210 | 2048.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 8 | 2994 | 1.453256965 | 811 | 211 | 2060.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 9 | 3065 | 1.451643459 | 836 | 216 | 2111.4 | 121 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 10 | 3114 | 1.446152417 | 848 | 220 | 2153.3 | 120 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 11 | 2833 | 1.449475569 | 775 | 200 | 1954.5 | 121 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 12 | 2593 | 1.450548221 | 716 | 183 | 1787.6 | 120 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 13 | 2605 | 1.442094774 | 720 | 185 | 1806.4 | 121 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 14 | 2612 | 1.444210992 | 714 | 185 | 1808.6 | 121 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 15 | 2809 | 1.446372483 | 765 | 199 | 1942.1 | 121 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 16 | 2901 | 1.44839982 | 795 | 205 | 2002.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 17 | 3128 | 1.459363628 | 827 | 219 | 2143.4 | 128 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 18 | 3642 | 1.459368489 | 801 | 256 | 2495.6 | 165 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 19 | 3020 | 1.464597478 | 930 | 211 | 2062 | 119 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 20 | 3125 | 1.466103683 | 895 | 218 | 2131.5 | 121 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 21 | 3325 | 1.478566346 | 877 | 230 | 2248.8 | 132 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 22 | 3195 | 1.475069252 | 937 | 222 | 2166 | 120 |
| FL | Crystal River | 1 | 2013 | 10/24/2013 | 23 | 3227 | 1.479257392 | 951 | 223 | 2181.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 0 | 3196 | 1.444715668 | 1061 | 227 | 2212.2 | 121 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 1 | 3278 | 1.466929204 | 1224 | 229 | 2234.6 | 123 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 2 | 3259 | 1.460976375 | 1073 | 228 | 2230.7 | 123 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 3 | 3254 | 1.459781975 | 1074 | 228 | 2229.1 | 123 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 4 | 3330 | 1.457968476 | 1075 | 234 | 2284 | 129 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 5 | 3184 | 1.449644873 | 1131 | 225 | 2196.4 | 123 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 6 | 3138 | 1.442427028 | 1129 | 223 | 2175.5 | 123 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 7 | 2942 | 1.451406019 | 1043 | 208 | 2027 | 121 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 8 | 2881 | 1.437122762 | 890 | 205 | 2004.7 | 155 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 9 | 2487 | 1.436907788 | 813 | 177 | 1730.8 | 149 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 10 | 1980 | 1.41783029 | 695 | 143 | 1396.5 | 126 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 11 | 1597 | 1.416533617 | 573 | 115 | 1127.4 | 121 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 12 | 1657 | 1.409732857 | 595 | 120 | 1175.4 | 122 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 13 | 2066 | 1.418663737 | 687 | 149 | 1456.3 | 142 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 14 | 3230 | 1.446419775 | 937 | 229 | 2233.1 | 231 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 15 | 2852 | 1.46414087 | 697 | 199 | 1947.9 | 204 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 16 | 1823 | 1.449586514 | 554 | 129 | 1257.6 | 122 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 17 | 1968 | 1.445889354 | 577 | 139 | 1361.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 18 | 2509 | 1.436669721 | 724 | 179 | 1746.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 19 | 2795 | 1.441985245 | 810 | 198 | 1938.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 20 | 2981 | 1.434345378 | 864 | 213 | 2078.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 21 | 3083 | 1.442339181 | 863 | 219 | 2137.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 22 | 3111 | 1.432650242 | 862 | 222 | 2171.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/25/2013 | 23 | 3079 | 1.434160883 | 858 | 220 | 2146.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 0 | 3039 | 1.436064644 | 846 | 217 | 2116.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 1 | 2996 | 1.432670237 | 836 | 214 | 2091.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 2 | 2961 | 1.429260993 | 830 | 212 | 2071.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 3 | 2863 | 1.420632164 | 832 | 206 | 2015.3 | 119 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 4 | 2756 | 1.430202387 | 805 | 197 | 1927 | 119 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 5 | 2768 | 1.429678219 | 813 | 198 | 1936.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 6 | 2740 | 1.430435918 | 800 | 196 | 1915.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 7 | 2829 | 1.425404343 | 811 | 203 | 1984.7 | 123 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 8 | 2984 | 1.412745005 | 832 | 216 | 2112.2 | 130 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 9 | 2920 | 1.40014385 | 848 | 214 | 2085.5 | 120 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 10 | 2624 | 1.403433706 | 755 | 191 | 1869.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 11 | 2252 | 1.393133313 | 651 | 165 | 1616.5 | 120 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 12 | 1850 | 1.386806597 | 567 | 136 | 1334 | 129 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 13 | 1894 | 1.379461034 | 568 | 140 | 1373 | 122 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 14 | 2439 | 1.35839599 | 721 | 184 | 1795.5 | 127 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 15 | 2346 | 1.347501436 | 739 | 178 | 1741 | 122 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 16 | 2500 | 1.320097159 | 808 | 194 | 1893.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 17 | 2736 | 1.302299015 | 890 | 215 | 2100.9 | 120 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 18 | 3555 | 1.31069572 | 819 | 278 | 2712.3 | 188 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 19 | 2706 | 1.309143687 | 940 | 212 | 2067 | 121 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 20 | 2802 | 1.317410315 | 893 | 218 | 2126.9 | 120 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 21 | 3016 | 1.362055729 | 885 | 227 | 2214.3 | 132 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 22 | 2938 | 1.365431984 | 875 | 220 | 2151.7 | 123 |
| FL | Crystal River | 1 | 2013 | 10/26/2013 | 23 | 2912 | 1.377874515 | 862 | 216 | 2113.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 0 | 2951 | 1.390931373 | 878 | 217 | 2121.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 1 | 2978 | 1.409103814 | 866 | 216 | 2113.4 | 120 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 2 | 2955 | 1.409693732 | 855 | 215 | 2096.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 3 | 2945 | 1.401580049 | 851 | 215 | 2101.2 | 119 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 4 | 2919 | 1.383805822 | 837 | 216 | 2109.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 5 | 2944 | 1.394005398 | 849 | 216 | 2111.9 | 120 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 6 | 2910 | 1.393344506 | 847 | 214 | 2088.5 | 120 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 7 | 2992 | 1.415594247 | 847 | 216 | 2113.6 | 120 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 8 | 3015 | 1.421097285 | 848 | 217 | 2121.6 | 121 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 9 | 2763 | 1.418377823 | 790 | 199 | 1948 | 120 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 10 | 2555 | 1.410511207 | 735 | 185 | 1811.4 | 120 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 11 | 2354 | 1.411609499 | 665 | 171 | 1667.6 | 124 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 12 | 2292 | 1.415688697 | 660 | 166 | 1619 | 122 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 13 | 2069 | 1.412961825 | 534 | 150 | 1464.3 | 125 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 14 | 2279 | 1.440490487 | 607 | 162 | 1582.1 | 136 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 15 | 2080 | 1.448871552 | 608 | 147 | 1435.6 | 124 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 16 | 2040 | 1.43783479 | 603 | 145 | 1418.8 | 121 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 17 | 2351 | 1.426750819 | 693 | 169 | 1647.8 | 123 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 18 | 3548 | 1.454396393 | 702 | 250 | 2439.5 | 193 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 19 | 2844 | 1.445342278 | 852 | 201 | 1967.7 | 126 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 20 | 2928 | 1.448429384 | 847 | 207 | 2021.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 21 | 3311 | 1.461229534 | 849 | 232 | 2265.9 | 143 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 22 | 3083 | 1.45014111 | 890 | 218 | 2126 | 119 |
| FL | Crystal River | 1 | 2013 | 10/27/2013 | 23 | 3163 | 1.486721504 | 887 | 218 | 2127.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 0 | 3158 | 1.483464863 | 887 | 218 | 2128.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 1 | 3145 | 1.476525822 | 886 | 218 | 2130 | 119 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 2 | 3158 | 1.470204842 | 867 | 220 | 2148 | 119 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 3 | 3158 | 1.48061325 | 878 | 218 | 2132.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 4 | 3147 | 1.47850599 | 874 | 218 | 2128.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 5 | 3138 | 1.474970623 | 880 | 218 | 2127.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 6 | 3085 | 1.465001425 | 867 | 216 | 2105.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 7 | 3067 | 1.472042237 | 858 | 213 | 2083.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 8 | 2995 | 1.469145492 | 827 | 209 | 2038.6 | 120 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 9 | 2629 | 1.449922788 | 741 | 186 | 1813.2 | 123 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 10 | 2294 | 1.441769845 | 652 | 163 | 1591.1 | 121 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 11 | 1960 | 1.451314328 | 545 | 138 | 1350.5 | 132 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 12 | 2532 | 1.462822809 | 526 | 177 | 1730.9 | 179 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 13 | 3958 | 1.497937403 | 795 | 271 | 2642.3 | 281 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 14 | 5216 | 1.531010596 | 1264 | 349 | 3406.9 | 367 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 15 | 5273 | 1.519290057 | 1322 | 356 | 3470.7 | 379 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 16 | 5208 | 1.517438303 | 1287 | 352 | 3432.1 | 373 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 17 | 4155 | 1.505325701 | 960 | 283 | 2760.2 | 302 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 18 | 5004 | 1.531118047 | 1127 | 335 | 3268.2 | 349 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 19 | 4351 | 1.519575315 | 964 | 293 | 2863.3 | 308 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 20 | 3616 | 1.506415597 | 691 | 246 | 2400.4 | 214 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 21 | 3057 | 1.472472424 | 795 | 213 | 2076.1 | 130 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 22 | 3185 | 1.476519401 | 811 | 221 | 2157.1 | 131 |
| FL | Crystal River | 1 | 2013 | 10/28/2013 | 23 | 3079 | 1.481713186 | 845 | 213 | 2078 | 119 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 0 | 3129 | 1.485613902 | 844 | 216 | 2106.2 | 120 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 1 | 3168 | 1.507781638 | 840 | 215 | 2101.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 2 | 3189 | 1.515756452 | 835 | 215 | 2103.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 3 | 3228 | 1.528988253 | 844 | 216 | 2111.2 | 120 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 4 | 3213 | 1.524844573 | 836 | 216 | 2107.1 | 120 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 5 | 3467 | 1.53570163 | 799 | 231 | 2257.6 | 135 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 6 | 3398 | 1.530975445 | 816 | 227 | 2219.5 | 130 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 7 | 3190 | 1.541137253 | 817 | 212 | 2069.9 | 120 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 8 | 3240 | 1.53663742 | 757 | 216 | 2108.5 | 131 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 9 | 2726 | 1.551684882 | 655 | 180 | 1756.8 | 125 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 10 | 2336 | 1.576886729 | 576 | 152 | 1481.4 | 121 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 11 | 2276 | 1.591831025 | 517 | 146 | 1429.8 | 138 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 12 | 4154 | 1.599353174 | 766 | 266 | 2597.3 | 271 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 13 | 5574 | 1.602276647 | 1301 | 356 | 3478.8 | 373 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 14 | 5758 | 1.607078065 | 1361 | 367 | 3582.9 | 388 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 15 | 5750 | 1.600467615 | 1358 | 368 | 3592.7 | 392 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 16 | 5183 | 1.601421288 | 1239 | 332 | 3236.5 | 356 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 17 | 4060 | 1.57132905 | 922 | 265 | 2583.8 | 284 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 18 | 5585 | 1.60010314 | 1249 | 358 | 3490.4 | 375 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 19 | 5429 | 1.595075802 | 1293 | 349 | 3403.6 | 366 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 20 | 3095 | 1.544873715 | 783 | 205 | 2003.4 | 182 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 21 | 3034 | 1.533329964 | 831 | 203 | 1978.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 22 | 3300 | 1.540544326 | 824 | 219 | 2142.1 | 130 |
| FL | Crystal River | 1 | 2013 | 10/29/2013 | 23 | 3222 | 1.543251269 | 858 | 214 | 2087.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 0 | 3230 | 1.534441805 | 865 | 216 | 2105 | 119 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 1 | 3206 | 1.528413425 | 851 | 215 | 2097.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 2 | 3211 | 1.52657602 | 851 | 215 | 2103.4 | 119 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 3 | 3240 | 1.537804357 | 857 | 216 | 2106.9 | 119 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 4 | 3244 | 1.546529367 | 849 | 215 | 2097.6 | 120 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 5 | 3792 | 1.544602851 | 758 | 251 | 2455 | 159 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 6 | 3334 | 1.516143702 | 859 | 225 | 2199 | 136 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 7 | 3085 | 1.492429007 | 849 | 212 | 2067.1 | 120 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 8 | 2858 | 1.464214355 | 769 | 200 | 1951.9 | 124 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 9 | 2362 | 1.448635388 | 647 | 167 | 1630.5 | 123 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 10 | 2847 | 1.467979788 | 591 | 199 | 1939.4 | 200 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 11 | 5188 | 1.536092852 | 1158 | 346 | 3377.4 | 364 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 12 | 4009 | 1.531965302 | 1010 | 268 | 2616.9 | 289 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 13 | 4779 | 1.567090766 | 1058 | 312 | 3049.6 | 332 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 14 | 5455 | 1.577182178 | 1342 | 354 | 3458.7 | 375 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 15 | 5572 | 1.57387792 | 1377 | 363 | 3540.3 | 386 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 16 | 5383 | 1.556500116 | 1348 | 354 | 3458.4 | 376 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 17 | 4836 | 1.543322164 | 1137 | 321 | 3133.5 | 342 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 18 | 5597 | 1.549814476 | 1361 | 370 | 3611.4 | 390 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 19 | 5462 | 1.553823396 | 1332 | 360 | 3515.2 | 378 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 20 | 4788 | 1.570247934 | 1234 | 312 | 3049.2 | 330 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 21 | 2767 | 1.536112807 | 727 | 184 | 1801.3 | 162 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 22 | 2651 | 1.538595473 | 713 | 176 | 1723 | 119 |
| FL | Crystal River | 1 | 2013 | 10/30/2013 | 23 | 2906 | 1.540745454 | 762 | 193 | 1886.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 0 | 3029 | 1.549281367 | 787 | 200 | 1955.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 1 | 3049 | 1.559032571 | 792 | 200 | 1955.7 | 119 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 2 | 3019 | 1.571904613 | 779 | 197 | 1920.6 | 119 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 3 | 3037 | 1.590468709 | 771 | 195 | 1909.5 | 119 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 4 | 2995 | 1.602461209 | 755 | 191 | 1869 | 119 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 5 | 3085 | 1.598362779 | 774 | 198 | 1930.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 6 | 3097 | 1.60300207 | 763 | 198 | 1932 | 119 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 7 | 2963 | 1.582968266 | 724 | 192 | 1871.8 | 119 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 8 | 2462 | 1.57005293 | 611 | 160 | 1568.1 | 119 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 9 | 3190 | 1.576710162 | 582 | 207 | 2023.2 | 208 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 10 | 5407 | 1.603879924 | 1132 | 345 | 3371.2 | 360 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 11 | 5643 | 1.63149069 | 1331 | 354 | 3458.8 | 375 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 12 | 5028 | 1.642439486 | 1129 | 314 | 3061.3 | 333 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 13 | 4303 | 1.642303729 | 969 | 268 | 2620.1 | 288 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 14 | 5703 | 1.676613259 | 1190 | 349 | 3401.5 | 367 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 15 | 5951 | 1.68131092 | 1337 | 363 | 3539.5 | 386 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 16 | 5364 | 1.65955077 | 1273 | 331 | 3232.2 | 350 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 17 | 4542 | 1.643865364 | 967 | 283 | 2763 | 303 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 18 | 3869 | 1.647153987 | 859 | 241 | 2348.9 | 255 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 19 | 3539 | 1.680117736 | 697 | 216 | 2106.4 | 223 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 20 | 3103 | 1.761566846 | 569 | 180 | 1761.5 | 182 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 21 | 2293 | 1.807931877 | 528 | 130 | 1268.3 | 122 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 22 | 2393 | 1.845596175 | 538 | 133 | 1296.6 | 121 |
| FL | Crystal River | 1 | 2013 | 10/31/2013 | 23 | 2600 | 1.897533207 | 564 | 140 | 1370.2 | 122 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 0 | 2943 | 1.921645446 | 641 | 157 | 1531.5 | 120 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 1 | 3032 | 1.937256405 | 648 | 160 | 1565.1 | 120 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 2 | 3217 | 1.924043062 | 688 | 171 | 1672 | 120 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 3 | 3452 | 1.901195131 | 739 | 186 | 1815.7 | 121 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 4 | 3524 | 1.876664181 | 747 | 192 | 1877.8 | 126 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 5 | 3781 | 1.860911507 | 709 | 208 | 2031.8 | 139 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 6 | 3384 | 1.80692012 | 739 | 192 | 1872.8 | 121 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 7 | 3255 | 1.791710244 | 737 | 186 | 1816.7 | 120 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 8 | 3555 | 1.779724656 | 647 | 204 | 1997.5 | 176 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 9 | 4815 | 1.721487308 | 878 | 287 | 2797 | 290 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 10 | 6120 | 1.701512456 | 1420 | 369 | 3596.8 | 383 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 11 | 6041 | 1.677030703 | 1440 | 369 | 3602.2 | 389 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 12 | 4911 | 1.64148673 | 1238 | 307 | 2991.8 | 324 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 13 | 6016 | 1.682938428 | 1415 | 366 | 3574.7 | 382 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 14 | 6284 | 1.749881652 | 1447 | 368 | 3591.1 | 386 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 15 | 6408 | 1.784809069 | 1446 | 368 | 3590.3 | 386 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 16 | 6410 | 1.795518207 | 1453 | 366 | 3570 | 382 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 17 | 6487 | 1.789319799 | 1461 | 372 | 3625.4 | 388 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 18 | 6414 | 1.781369772 | 1447 | 369 | 3600.6 | 386 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 19 | 5599 | 1.760581096 | 1399 | 326 | 3180.2 | 343 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 20 | 5374 | 1.7663106 | 1317 | 312 | 3042.5 | 327 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 21 | 4416 | 1.774491682 | 1035 | 255 | 2488.6 | 268 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 22 | 2489 | 1.762123894 | 556 | 144 | 1412.5 | 140 |
| FL | Crystal River | 1 | 2013 | 11/1/2013 | 23 | 2253 | 1.770669601 | 507 | 130 | 1272.4 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 0 | 2310 | 1.768488746 | 504 | 134 | 1306.2 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 1 | 2329 | 1.773800457 | 498 | 134 | 1313 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 2 | 2389 | 1.769891836 | 502 | 138 | 1349.8 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 3 | 2854 | 1.762163497 | 578 | 166 | 1619.6 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 4 | 2970 | 1.758124667 | 598 | 173 | 1689.3 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 5 | 3200 | 1.72385929 | 699 | 190 | 1856.3 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 6 | 3137 | 1.659876184 | 725 | 193 | 1889.9 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 7 | 3102 | 1.630829084 | 722 | 195 | 1902.1 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 8 | 3403 | 1.604658839 | 755 | 217 | 2120.7 | 137 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 9 | 3152 | 1.576472942 | 761 | 205 | 1999.4 | 123 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 10 | 3085 | 1.577843699 | 743 | 200 | 1955.2 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 11 | 3054 | 1.587978369 | 734 | 197 | 1923.2 | 121 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 12 | 3131 | 1.588614339 | 752 | 202 | 1970.9 | 120 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 13 | 3112 | 1.592956593 | 734 | 200 | 1953.6 | 120 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 14 | 3023 | 1.610634557 | 715 | 192 | 1876.9 | 120 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 15 | 2899 | 1.617113851 | 684 | 183 | 1792.7 | 120 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 16 | 2731 | 1.61837037 | 644 | 173 | 1687.5 | 120 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 17 | 2764 | 1.619689423 | 660 | 175 | 1706.5 | 120 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 18 | 3326 | 1.615347256 | 753 | 211 | 2059 | 138 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 19 | 3100 | 1.599587203 | 759 | 198 | 1938 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 20 | 3135 | 1.607362592 | 747 | 200 | 1950.4 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 21 | 3199 | 1.599659966 | 761 | 205 | 1999.8 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 22 | 3302 | 1.613880743 | 783 | 209 | 2046 | 119 |
| FL | Crystal River | 1 | 2013 | 11/2/2013 | 23 | 3364 | 1.635868508 | 785 | 211 | 2056.4 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 0 | 3418 | 1.636189564 | 793 | 214 | 2089 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 1 | 3510 | 1.650677201 | 820 | 218 | 2126.4 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 2 | 3575 | 1.660473758 | 833 | 220 | 2153 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 3 | 3612 | 1.681720831 | 824 | 220 | 2147.8 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 4 | 3571 | 1.672051318 | 818 | 219 | 2135.7 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 5 | 3565 | 1.682079834 | 809 | 217 | 2119.4 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 6 | 3524 | 1.688386355 | 797 | 214 | 2087.2 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 7 | 3571 | 1.688735458 | 807 | 217 | 2114.6 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 8 | 3604 | 1.696159639 | 818 | 218 | 2124.8 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 9 | 3513 | 1.707245954 | 798 | 211 | 2057.7 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 10 | 3326 | 1.715140264 | 752 | 199 | 1939.2 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 11 | 3250 | 1.720395956 | 731 | 193 | 1889.1 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 12 | 3220 | 1.719350705 | 724 | 192 | 1872.8 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 13 | 3259 | 1.736373808 | 732 | 192 | 1876.9 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 14 | 3043 | 1.718723524 | 694 | 181 | 1770.5 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 15 | 3026 | 1.725494668 | 691 | 179 | 1753.7 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 16 | 3026 | 1.713573815 | 686 | 181 | 1765.9 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 17 | 3300 | 1.693002257 | 756 | 200 | 1949.2 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 18 | 3692 | 1.695366671 | 842 | 223 | 2177.7 | 123 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 19 | 3621 | 1.691265764 | 839 | 219 | 2141 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 20 | 3604 | 1.687265918 | 837 | 219 | 2136 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 21 | 3574 | 1.6905539 | 824 | 216 | 2114.1 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 22 | 3524 | 1.67961489 | 814 | 215 | 2098.1 | 119 |
| FL | Crystal River | 1 | 2013 | 11/3/2013 | 23 | 3497 | 1.655854917 | 819 | 216 | 2111.9 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 0 | 3488 | 1.651593352 | 832 | 216 | 2111.9 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 1 | 3555 | 1.668622389 | 1012 | 218 | 2130.5 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 2 | 3555 | 1.688916338 | 1035 | 216 | 2104.9 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 3 | 3618 | 1.687736157 | 1041 | 219 | 2143.7 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 4 | 3658 | 1.712626996 | 1031 | 219 | 2135.9 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 5 | 3714 | 1.730177956 | 1023 | 220 | 2146.6 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 6 | 3668 | 1.754855995 | 997 | 214 | 2090.2 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 7 | 3736 | 1.760105531 | 1008 | 217 | 2122.6 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 8 | 3745 | 1.759207065 | 1019 | 218 | 2128.8 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 9 | 3481 | 1.753917469 | 944 | 203 | 1984.7 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 10 | 3167 | 1.740205506 | 857 | 186 | 1819.9 | 120 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 11 | 2965 | 1.743604822 | 802 | 174 | 1700.5 | 123 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 12 | 2676 | 1.72879385 | 732 | 158 | 1547.9 | 123 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 13 | 2725 | 1.703125 | 756 | 164 | 1600 | 120 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 14 | 2753 | 1.675083663 | 779 | 168 | 1643.5 | 120 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 15 | 2847 | 1.639032815 | 816 | 178 | 1737 | 120 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 16 | 2934 | 1.62117361 | 859 | 185 | 1809.8 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 17 | 3554 | 1.589445438 | 977 | 229 | 2236 | 136 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 18 | 4406 | 1.595740828 | 1107 | 283 | 2761.1 | 199 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 19 | 3380 | 1.57114303 | 1088 | 220 | 2151.3 | 132 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 20 | 3341 | 1.572235294 | 1005 | 218 | 2125 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 21 | 3355 | 1.563300871 | 1008 | 220 | 2146.1 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 22 | 3326 | 1.553915156 | 1008 | 219 | 2140.4 | 119 |
| FL | Crystal River | 1 | 2013 | 11/4/2013 | 23 | 3324 | 1.551168977 | 1009 | 219 | 2142.9 | 119 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 0 | 3363 | 1.550484094 | 919 | 222 | 2169 | 119 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 1 | 3403 | 1.590186916 | 1010 | 219 | 2140 | 119 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 2 | 3475 | 1.620651059 | 1014 | 220 | 2144.2 | 119 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 3 | 3545 | 1.651602684 | 1019 | 220 | 2146.4 | 119 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 4 | 3554 | 1.6578039 | 1020 | 220 | 2143.8 | 119 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 5 | 3614 | 1.682495345 | 1031 | 220 | 2148 | 119 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 6 | 3613 | 1.687529192 | 1014 | 219 | 2141 | 121 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 7 | 3692 | 1.669455121 | 1021 | 226 | 2211.5 | 125 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 8 | 3563 | 1.631111518 | 1015 | 224 | 2184.4 | 122 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 9 | 3493 | 1.589171975 | 945 | 225 | 2198 | 134 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 10 | 2958 | 1.54958353 | 868 | 195 | 1908.9 | 134 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 11 | 3310 | 1.584490187 | 666 | 214 | 2089 | 197 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 12 | 3899 | 1.616366802 | 1092 | 247 | 2412.2 | 253 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 13 | 3525 | 1.557873337 | 742 | 232 | 2262.7 | 241 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 14 | 3418 | 1.572940635 | 671 | 222 | 2173 | 231 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 15 | 3239 | 1.615380779 | 655 | 205 | 2005.1 | 211 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 16 | 1993 | 1.540304506 | 644 | 132 | 1293.9 | 123 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 17 | 2720 | 1.511951084 | 836 | 184 | 1799 | 134 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 18 | 5240 | 1.555727095 | 1471 | 345 | 3368.2 | 284 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 19 | 5065 | 1.562741045 | 1497 | 332 | 3241.1 | 284 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 20 | 3245 | 1.49140546 | 1044 | 223 | 2175.8 | 150 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 21 | 3189 | 1.475091355 | 1016 | 221 | 2161.9 | 130 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 22 | 3172 | 1.47028831 | 1018 | 221 | 2157.4 | 124 |
| FL | Crystal River | 1 | 2013 | 11/5/2013 | 23 | 3076 | 1.456784277 | 1007 | 216 | 2111.5 | 120 |
| FL | Crystal River | 1 | 2013 | 11/6/2013 | 0 | 2989 | 1.388101983 | 1016 | 220 | 2153.3 | 120 |
| FL | Crystal River | 1 | 2013 | 11/6/2013 | 1 | 2978 | 1.384601079 | 1045 | 220 | 2150.8 | 120 |
| FL | Crystal River | 1 | 2013 | 11/6/2013 | 2 | 2974 | 1.37265762 | 1070 | 222 | 2166.6 | 119 |
| FL | Crystal River | 1 | 2013 | 11/6/2013 | 3 | 2940 | 1.356151114 | 1068 | 222 | 2167.9 | 120 |
| FL | Crystal River | 1 | 2013 | 11/6/2013 | 4 | 2779 | 1.29684073 | 1052 | 219 | 2142.9 | 119 |
| FL | Crystal River | 1 | 2013 | 11/6/2013 | 5 | 2809 | 1.29950037 | 1065 | 221 | 2161.6 | 120 |
| FL | Crystal River | 1 | 2013 | 11/6/2013 | 6 | 2764 | 1.28349199 | 1063 | 221 | 2153.5 | 122 |
| FL | Crystal River | 1 | 2013 | 11/6/2013 | 7 | 2889 | 1.297901972 | 1077 | 228 | 2225.9 | 133 |
| FL | Crystal River | 1 | 2013 | 11/6/2013 | 8 | 2569 | 1.293034025 | 985 | 203 | 1986.8 | 127 |
| FL | Crystal River | 1 | 2013 | 11/6/2013 | 9 | 2338 | 1.295434397 | 832 | 185 | 1804.8 | 147 |
| FL | Crystal River | 1 | 2013 | 11/6/2013 | 10 | 3071 | 1.348408342 | 908 | 233 | 2277.5 | 231 |
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| FL | Crystal River | 1 | 2013 | 11/6/2013 | 23 | 2370 | 1.395841922 | 915 | 174 | 1697.9 | 118 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
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| FL | Crystal River | 1 | 2013 | 11/30/2013 | 17 | | #DIV/0! | | | | |
| FL | Crystal River | 1 | 2013 | 11/30/2013 | 18 | | #DIV/0! | | | | |
| FL | Crystal River | 1 | 2013 | 11/30/2013 | 19 | | #DIV/0! | | | | |
| FL | Crystal River | 1 | 2013 | 11/30/2013 | 20 | | #DIV/0! | | | | |
| FL | Crystal River | 1 | 2013 | 11/30/2013 | 21 | | #DIV/0! | | | | |
| FL | Crystal River | 1 | 2013 | 11/30/2013 | 22 | | #DIV/0! | | | | |
| FL | Crystal River | 1 | 2013 | 11/30/2013 | 23 | | #DIV/0! | | | | |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 0 | 2199 | 1.589906731 | 430 | 141 | 1383.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 1 | 2203 | 1.587061451 | 428 | 142 | 1388.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 2 | 2200 | 1.601397583 | 441 | 141 | 1373.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 3 | 2207 | 1.617442287 | 438 | 140 | 1364.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 4 | 2208 | 1.627238558 | 450 | 139 | 1356.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 5 | 2234 | 1.633040936 | 459 | 140 | 1368 | 119 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 6 | 2232 | 1.643956691 | 464 | 139 | 1357.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 7 | 2275 | 1.637986896 | 452 | 142 | 1388.9 | 121 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 8 | 3444 | 1.65887963 | 390 | 213 | 2076.1 | 197 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 9 | 3480 | 1.614399703 | 388 | 221 | 2155.6 | 211 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 10 | 5169 | 1.579767726 | 700 | 335 | 3272 | 339 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 11 | 6107 | 1.571741089 | 1220 | 398 | 3885.5 | 418 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 12 | 6639 | 1.579172712 | 1429 | 431 | 4204.1 | 459 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 13 | 6791 | 1.585459809 | 1456 | 439 | 4283.3 | 466 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 14 | 6934 | 1.614961804 | 1477 | 440 | 4293.6 | 469 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 15 | 6331 | 1.636805502 | 1179 | 396 | 3867.9 | 418 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 16 | 6377 | 1.646952479 | 1165 | 397 | 3872 | 419 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 17 | 5544 | 1.607282637 | 879 | 353 | 3449.3 | 371 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 18 | 3981 | 1.553136704 | 428 | 263 | 2563.2 | 258 |

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|----|---------------|---|------|----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 19 | 3944 | 1.533377396 | 455 | 263 | 2572.1 | 261 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 20 | 2452 | 1.501163218 | 429 | 167 | 1633.4 | 152 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 21 | 2032 | 1.481913652 | 447 | 140 | 1371.2 | 120 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 22 | 2038 | 1.470949116 | 436 | 142 | 1385.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/1/2013 | 23 | 2041 | 1.475884012 | 424 | 141 | 1382.9 | 119 |
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| FL | Crystal River | 2 | 2013 | 9/2/2013 | 1 | 2034 | 1.474340389 | 415 | 141 | 1379.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 2 | 2007 | 1.464642779 | 412 | 140 | 1370.3 | 119 |
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| FL | Crystal River | 2 | 2013 | 9/2/2013 | 4 | 1954 | 1.443451282 | 399 | 138 | 1353.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 5 | 1971 | 1.436170213 | 392 | 140 | 1372.4 | 119 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 6 | 1953 | 1.436874632 | 399 | 139 | 1359.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 7 | 2020 | 1.458378456 | 397 | 142 | 1385.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 8 | 2082 | 1.509789703 | 401 | 141 | 1379 | 121 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 9 | 3686 | 1.574339042 | 458 | 240 | 2341.3 | 228 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 10 | 5264 | 1.59124573 | 750 | 339 | 3308.1 | 349 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 11 | 6759 | 1.611088599 | 1443 | 430 | 4195.3 | 453 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 12 | 6706 | 1.614347617 | 1408 | 426 | 4154 | 452 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 13 | 6499 | 1.572846079 | 1433 | 423 | 4132 | 450 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 14 | 6365 | 1.532405624 | 1433 | 426 | 4153.6 | 450 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 15 | 6293 | 1.518507794 | 1433 | 425 | 4144.2 | 447 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 16 | 6370 | 1.542260853 | 1425 | 423 | 4130.3 | 447 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 17 | 6249 | 1.581584875 | 1323 | 405 | 3951.1 | 431 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 18 | 6377 | 1.60113488 | 1266 | 408 | 3982.8 | 432 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 19 | 6281 | 1.63363504 | 1241 | 394 | 3844.8 | 420 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 20 | 5084 | 1.658186562 | 659 | 314 | 3066 | 329 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 21 | 2775 | 1.632641054 | 365 | 174 | 1699.7 | 156 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 22 | 2291 | 1.619882627 | 372 | 145 | 1414.3 | 120 |
| FL | Crystal River | 2 | 2013 | 9/2/2013 | 23 | 2272 | 1.613980251 | 374 | 144 | 1407.7 | 120 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 0 | 2245 | 1.590731949 | 368 | 144 | 1411.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 1 | 2208 | 1.561638022 | 364 | 145 | 1413.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 2 | 2182 | 1.541940499 | 367 | 145 | 1415.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 3 | 2132 | 1.525908961 | 371 | 143 | 1397.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 4 | 2061 | 1.515441176 | 376 | 139 | 1360 | 119 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 5 | 2139 | 1.50517205 | 378 | 145 | 1421.1 | 124 |

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|----|---------------|---|------|----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 6 | 2079 | 1.52441707 | 380 | 139 | 1363.8 | 120 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 7 | 2324 | 1.512922336 | 374 | 157 | 1536.1 | 135 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 8 | 3017 | 1.511068817 | 393 | 204 | 1996.6 | 192 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 9 | 5145 | 1.528838439 | 858 | 345 | 3365.3 | 357 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 10 | 6070 | 1.540843783 | 1296 | 404 | 3939.4 | 424 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 11 | 6701 | 1.55371096 | 1522 | 442 | 4312.9 | 473 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 12 | 5736 | 1.547676866 | 1067 | 380 | 3706.2 | 402 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 13 | 6835 | 1.555742705 | 1528 | 450 | 4393.4 | 476 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 14 | 6900 | 1.55538524 | 1574 | 455 | 4436.2 | 483 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 15 | 6822 | 1.551124349 | 1578 | 451 | 4398.1 | 482 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 16 | 6784 | 1.551834569 | 1551 | 448 | 4371.6 | 478 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 17 | 6806 | 1.561689727 | 1542 | 447 | 4358.1 | 477 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 18 | 6840 | 1.59648959 | 1503 | 439 | 4284.4 | 471 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 19 | 6403 | 1.613252708 | 1282 | 407 | 3969 | 434 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 20 | 5637 | 1.634244629 | 900 | 353 | 3449.3 | 374 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 21 | 4828 | 1.659391648 | 547 | 298 | 2909.5 | 309 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 22 | 2981 | 1.692788189 | 394 | 180 | 1761 | 165 |
| FL | Crystal River | 2 | 2013 | 9/3/2013 | 23 | 2456 | 1.719887955 | 425 | 146 | 1428 | 122 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 0 | 2472 | 1.741826381 | 413 | 145 | 1419.2 | 122 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 1 | 2434 | 1.709269663 | 420 | 146 | 1424 | 122 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 2 | 2362 | 1.654061625 | 405 | 146 | 1428 | 122 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 3 | 2321 | 1.628429103 | 400 | 146 | 1425.3 | 121 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 4 | 2305 | 1.631280962 | 394 | 145 | 1413 | 121 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 5 | 2507 | 1.656644419 | 361 | 155 | 1513.3 | 132 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 6 | 2321 | 1.692307692 | 412 | 140 | 1371.5 | 120 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 7 | 2449 | 1.699986117 | 387 | 147 | 1440.6 | 125 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 8 | 4043 | 1.741396391 | 404 | 238 | 2321.7 | 221 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 9 | 6171 | 1.713214881 | 976 | 369 | 3602 | 384 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 10 | 7399 | 1.717821322 | 1567 | 441 | 4307.2 | 470 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 11 | 7361 | 1.716330908 | 1526 | 440 | 4288.8 | 471 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 12 | 7336 | 1.678411275 | 1551 | 448 | 4370.8 | 480 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 13 | 7387 | 1.676196959 | 1577 | 452 | 4407 | 486 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 14 | 7279 | 1.694051387 | 1491 | 440 | 4296.8 | 473 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 15 | 6569 | 1.706411056 | 1174 | 395 | 3849.6 | 420 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 16 | 6447 | 1.692659105 | 1157 | 390 | 3808.8 | 414 |

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|----|---------------|---|------|----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 17 | 5614 | 1.675120845 | 697 | 343 | 3351.4 | 360 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 18 | 5695 | 1.672147513 | 742 | 349 | 3405.8 | 372 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 19 | 4865 | 1.714174976 | 547 | 291 | 2838.1 | 300 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 20 | 3015 | 1.7811178 | 360 | 173 | 1692.7 | 163 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 21 | 2448 | 1.74371394 | 404 | 144 | 1403.9 | 122 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 22 | 2494 | 1.733509418 | 401 | 147 | 1438.7 | 126 |
| FL | Crystal River | 2 | 2013 | 9/4/2013 | 23 | 2313 | 1.693512959 | 405 | 140 | 1365.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 0 | 2281 | 1.672532629 | 405 | 139 | 1363.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 1 | 2236 | 1.619116582 | 400 | 141 | 1381 | 119 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 2 | 2221 | 1.600028816 | 392 | 142 | 1388.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 3 | 2189 | 1.595829992 | 371 | 140 | 1371.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 4 | 2164 | 1.581177846 | 369 | 140 | 1368.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 5 | 2184 | 1.592068815 | 369 | 140 | 1371.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 6 | 2156 | 1.58692772 | 365 | 139 | 1358.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 7 | 2296 | 1.595330739 | 365 | 147 | 1439.2 | 126 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 8 | 3689 | 1.63948269 | 405 | 230 | 2250.1 | 219 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 9 | 4678 | 1.653178782 | 594 | 290 | 2829.7 | 297 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 10 | 5695 | 1.673523362 | 830 | 349 | 3403 | 368 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 11 | 7374 | 1.702491169 | 1541 | 444 | 4331.3 | 482 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 12 | 7139 | 1.69335136 | 1425 | 432 | 4215.9 | 467 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 13 | 7765 | 1.703037614 | 1632 | 467 | 4559.5 | 507 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 14 | 7810 | 1.699895525 | 1644 | 471 | 4594.4 | 507 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 15 | 7847 | 1.695512197 | 1670 | 474 | 4628.1 | 511 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 16 | 7855 | 1.697570885 | 1675 | 474 | 4627.2 | 512 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 17 | 7878 | 1.707375219 | 1661 | 473 | 4614.1 | 511 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 18 | 7911 | 1.717094982 | 1658 | 472 | 4607.2 | 511 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 19 | 7689 | 1.716869488 | 1589 | 459 | 4478.5 | 499 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 20 | 5461 | 1.713846347 | 774 | 326 | 3186.4 | 350 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 21 | 4408 | 1.677065896 | 470 | 269 | 2628.4 | 276 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 22 | 2926 | 1.652453832 | 421 | 181 | 1770.7 | 172 |
| FL | Crystal River | 2 | 2013 | 9/5/2013 | 23 | 2268 | 1.628374497 | 445 | 142 | 1392.8 | 122 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 0 | 2240 | 1.633605601 | 455 | 140 | 1371.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 1 | 2264 | 1.647623899 | 457 | 141 | 1374.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 2 | 2274 | 1.648303856 | 467 | 141 | 1379.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 3 | 2286 | 1.66460351 | 458 | 140 | 1373.3 | 119 |

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|----|---------------|---|------|----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 4 | 2269 | 1.669978656 | 448 | 139 | 1358.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 5 | 2293 | 1.678132319 | 444 | 140 | 1366.4 | 119 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 6 | 2259 | 1.672342316 | 422 | 138 | 1350.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 7 | 2663 | 1.687900108 | 396 | 161 | 1577.7 | 144 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 8 | 4399 | 1.716080206 | 512 | 263 | 2563.4 | 263 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 9 | 6254 | 1.706784564 | 1000 | 375 | 3664.2 | 396 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 10 | 7902 | 1.722394176 | 1587 | 470 | 4587.8 | 510 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 11 | 8096 | 1.74761473 | 1579 | 475 | 4632.6 | 516 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 12 | 8018 | 1.759606733 | 1499 | 467 | 4556.7 | 507 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 13 | 7976 | 1.757563738 | 1488 | 465 | 4538.1 | 504 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 14 | 7700 | 1.749642119 | 1403 | 451 | 4400.9 | 486 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 15 | 7250 | 1.72569742 | 1289 | 431 | 4201.2 | 461 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 16 | 5888 | 1.722796032 | 786 | 350 | 3417.7 | 377 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 17 | 3419 | 1.690231362 | 349 | 207 | 2022.8 | 205 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 18 | 2405 | 1.615069505 | 349 | 152 | 1489.1 | 133 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 19 | 2884 | 1.629194441 | 359 | 181 | 1770.2 | 167 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 20 | 2216 | 1.59873025 | 413 | 142 | 1386.1 | 120 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 21 | 2260 | 1.595256582 | 386 | 145 | 1416.7 | 122 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 22 | 2219 | 1.5973222 | 395 | 142 | 1389.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/6/2013 | 23 | 2210 | 1.613963339 | 386 | 140 | 1369.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 0 | 2228 | 1.620953074 | 387 | 141 | 1374.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 1 | 2230 | 1.609411085 | 374 | 142 | 1385.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 2 | 2237 | 1.614113572 | 365 | 142 | 1385.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 3 | 2241 | 1.618050542 | 360 | 142 | 1385 | 119 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 4 | 2233 | 1.633145615 | 362 | 140 | 1367.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 5 | 2191 | 1.620322438 | 367 | 138 | 1352.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 6 | 2157 | 1.61827594 | 363 | 136 | 1332.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 7 | 2169 | 1.615762813 | 362 | 137 | 1342.4 | 119 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 8 | 2207 | 1.60754607 | 366 | 140 | 1372.9 | 122 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 9 | 3071 | 1.615380569 | 340 | 195 | 1901.1 | 182 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 10 | 4948 | 1.641890098 | 614 | 309 | 3013.6 | 319 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 11 | 7198 | 1.654256297 | 1483 | 446 | 4351.2 | 480 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 12 | 7573 | 1.675479546 | 1523 | 463 | 4519.9 | 505 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 13 | 7687 | 1.675421198 | 1527 | 470 | 4588.1 | 507 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 14 | 7664 | 1.674386088 | 1524 | 469 | 4577.2 | 507 |

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|----|---------------|---|------|----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 15 | 7671 | 1.6709142 | 1538 | 471 | 4590.9 | 507 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 16 | 7686 | 1.686598934 | 1544 | 467 | 4557.1 | 507 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 17 | 7177 | 1.690814427 | 1371 | 435 | 4244.7 | 474 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 18 | 5856 | 1.681019635 | 843 | 357 | 3483.6 | 385 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 19 | 6110 | 1.661771105 | 959 | 377 | 3676.8 | 405 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 20 | 4624 | 1.66955517 | 504 | 284 | 2769.6 | 299 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 21 | 3189 | 1.640516487 | 386 | 199 | 1943.9 | 190 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 22 | 2335 | 1.637217782 | 373 | 146 | 1426.2 | 128 |
| FL | Crystal River | 2 | 2013 | 9/7/2013 | 23 | 2202 | 1.628939192 | 451 | 138 | 1351.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 0 | 2214 | 1.632863781 | 444 | 139 | 1355.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 1 | 2208 | 1.634465912 | 437 | 138 | 1350.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 2 | 2206 | 1.643447813 | 429 | 137 | 1342.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 3 | 2210 | 1.639465875 | 424 | 138 | 1348 | 119 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 4 | 2188 | 1.626523937 | 406 | 138 | 1345.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 5 | 2209 | 1.635932756 | 384 | 138 | 1350.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 6 | 2161 | 1.628853546 | 379 | 136 | 1326.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 7 | 2172 | 1.608888889 | 361 | 138 | 1350 | 119 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 8 | 2220 | 1.592082616 | 359 | 143 | 1394.4 | 123 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 9 | 3258 | 1.606112891 | 419 | 208 | 2028.5 | 199 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 10 | 6248 | 1.633592177 | 1032 | 392 | 3824.7 | 412 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 11 | 7677 | 1.680640995 | 1562 | 468 | 4567.9 | 510 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 12 | 7909 | 1.702581103 | 1546 | 476 | 4645.3 | 516 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 13 | 8057 | 1.727746446 | 1552 | 478 | 4663.3 | 517 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 14 | 8053 | 1.733430915 | 1537 | 476 | 4645.7 | 513 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 15 | 7731 | 1.697703017 | 1493 | 467 | 4553.8 | 502 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 16 | 7208 | 1.67909057 | 1343 | 440 | 4292.8 | 472 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 17 | 6345 | 1.666491569 | 1039 | 390 | 3807.4 | 418 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 18 | 6138 | 1.716155008 | 890 | 367 | 3576.6 | 391 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 19 | 7223 | 1.79582805 | 1190 | 412 | 4022.1 | 444 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 20 | 6396 | 1.85246329 | 828 | 354 | 3452.7 | 384 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 21 | 4173 | 1.8697912 | 450 | 229 | 2231.8 | 238 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 22 | 2441 | 1.798953497 | 515 | 139 | 1356.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/8/2013 | 23 | 2411 | 1.768243491 | 505 | 139 | 1363.5 | 120 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 0 | 2352 | 1.712288876 | 498 | 140 | 1373.6 | 120 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 1 | 2303 | 1.683233445 | 504 | 140 | 1368.2 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 2 | 2261 | 1.666912415 | 497 | 139 | 1356.4 | 119 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 3 | 2215 | 1.627718989 | 480 | 139 | 1360.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 4 | 2141 | 1.597165237 | 466 | 137 | 1340.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 5 | 2183 | 1.571634269 | 454 | 142 | 1389 | 124 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 6 | 2049 | 1.519691463 | 442 | 138 | 1348.3 | 120 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 7 | 2576 | 1.505552309 | 359 | 175 | 1711 | 158 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 8 | 3347 | 1.491931889 | 361 | 230 | 2243.4 | 221 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 9 | 4139 | 1.528321394 | 457 | 277 | 2708.2 | 281 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 10 | 5327 | 1.58089981 | 724 | 345 | 3369.6 | 366 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 11 | 6307 | 1.61085996 | 1170 | 401 | 3915.3 | 430 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 12 | 6576 | 1.60046729 | 1253 | 421 | 4108.8 | 455 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 13 | 7305 | 1.597314849 | 1518 | 469 | 4573.3 | 507 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 14 | 7353 | 1.60087958 | 1524 | 471 | 4593.1 | 507 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 15 | 7340 | 1.596589302 | 1526 | 471 | 4597.3 | 507 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 16 | 7230 | 1.583616252 | 1543 | 468 | 4565.5 | 507 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 17 | 7046 | 1.570909415 | 1498 | 460 | 4485.3 | 496 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 18 | 6052 | 1.595066154 | 1062 | 389 | 3794.2 | 419 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 19 | 6121 | 1.669803857 | 956 | 376 | 3665.7 | 406 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 20 | 5242 | 1.728492762 | 612 | 311 | 3032.7 | 328 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 21 | 2672 | 1.724204685 | 458 | 159 | 1549.7 | 143 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 22 | 2369 | 1.709852039 | 500 | 142 | 1385.5 | 121 |
| FL | Crystal River | 2 | 2013 | 9/9/2013 | 23 | 2349 | 1.712723296 | 500 | 140 | 1371.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 0 | 2333 | 1.714936783 | 492 | 139 | 1360.4 | 119 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 1 | 2299 | 1.714520098 | 492 | 137 | 1340.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 2 | 2286 | 1.707499253 | 460 | 137 | 1338.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 3 | 2273 | 1.682955723 | 428 | 138 | 1350.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 4 | 2240 | 1.68130301 | 419 | 136 | 1332.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 5 | 2298 | 1.668602963 | 418 | 141 | 1377.2 | 123 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 6 | 2222 | 1.673192771 | 414 | 136 | 1328 | 120 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 7 | 2294 | 1.6861448 | 400 | 139 | 1360.5 | 121 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 8 | 3790 | 1.755848969 | 416 | 221 | 2158.5 | 215 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 9 | 6138 | 1.804020691 | 768 | 349 | 3402.4 | 369 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 10 | 6672 | 1.811419108 | 1049 | 377 | 3683.3 | 406 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 11 | 7834 | 1.821775731 | 1406 | 441 | 4300.2 | 479 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 12 | 8178 | 1.804143043 | 1523 | 465 | 4532.9 | 506 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 13 | 8009 | 1.763630758 | 1530 | 465 | 4541.2 | 506 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 14 | 7903 | 1.739944079 | 1539 | 466 | 4542.1 | 506 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 15 | 8017 | 1.763295649 | 1545 | 466 | 4546.6 | 506 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 16 | 8239 | 1.815957681 | 1515 | 465 | 4537 | 506 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 17 | 8368 | 1.842319632 | 1512 | 466 | 4542.1 | 506 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 18 | 7433 | 1.825079186 | 1250 | 417 | 4072.7 | 453 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 19 | 7365 | 1.790184974 | 1291 | 422 | 4114.1 | 461 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 20 | 5721 | 1.744686042 | 750 | 336 | 3279.1 | 361 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 21 | 3320 | 1.71186965 | 347 | 199 | 1939.4 | 194 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 22 | 2684 | 1.672795263 | 426 | 164 | 1604.5 | 147 |
| FL | Crystal River | 2 | 2013 | 9/10/2013 | 23 | 2271 | 1.658027305 | 526 | 140 | 1369.7 | 120 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 0 | 2245 | 1.64940122 | 556 | 139 | 1361.1 | 120 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 1 | 2256 | 1.651053864 | 547 | 140 | 1366.4 | 120 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 2 | 2225 | 1.630633932 | 514 | 140 | 1364.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 3 | 2216 | 1.622373527 | 499 | 140 | 1365.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 4 | 2179 | 1.600088119 | 478 | 139 | 1361.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 5 | 2853 | 1.629354654 | 432 | 179 | 1751 | 165 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 6 | 2340 | 1.635563011 | 492 | 146 | 1430.7 | 137 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 7 | 2461 | 1.6287227 | 433 | 155 | 1511 | 136 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 8 | 4091 | 1.65246193 | 475 | 254 | 2475.7 | 252 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 9 | 5930 | 1.666947771 | 775 | 365 | 3557.4 | 386 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 10 | 6894 | 1.675334143 | 1201 | 422 | 4115 | 457 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 11 | 6925 | 1.656500419 | 1291 | 428 | 4180.5 | 467 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 12 | 6218 | 1.644103649 | 1055 | 388 | 3782 | 421 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 13 | 6080 | 1.650693671 | 946 | 377 | 3683.3 | 405 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 14 | 7198 | 1.68539852 | 1366 | 438 | 4270.8 | 477 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 15 | 7339 | 1.69746733 | 1374 | 443 | 4323.5 | 485 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 16 | 7296 | 1.703041479 | 1379 | 439 | 4284.1 | 484 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 17 | 6447 | 1.678469149 | 1113 | 394 | 3841 | 434 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 18 | 6389 | 1.686597503 | 1019 | 388 | 3788.1 | 423 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 19 | 7033 | 1.693596937 | 1303 | 426 | 4152.7 | 468 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 20 | 5566 | 1.691536241 | 756 | 337 | 3290.5 | 364 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 21 | 3025 | 1.666942194 | 366 | 186 | 1814.7 | 175 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 22 | 2615 | 1.644033698 | 397 | 163 | 1590.6 | 146 |
| FL | Crystal River | 2 | 2013 | 9/11/2013 | 23 | 2210 | 1.615260927 | 532 | 140 | 1368.2 | 120 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 0 | 2201 | 1.605514625 | 504 | 140 | 1370.9 | 122 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 1 | 2171 | 1.596793174 | 527 | 139 | 1359.6 | 120 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 2 | 2167 | 1.612951247 | 519 | 137 | 1343.5 | 120 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 3 | 2170 | 1.600885282 | 494 | 139 | 1355.5 | 120 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 4 | 2136 | 1.608433735 | 482 | 136 | 1328 | 120 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 5 | 2500 | 1.609476598 | 399 | 159 | 1553.3 | 144 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 6 | 2138 | 1.59006396 | 493 | 138 | 1344.6 | 125 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 7 | 2701 | 1.61601053 | 409 | 171 | 1671.4 | 158 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 8 | 4394 | 1.631334695 | 503 | 276 | 2693.5 | 282 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 9 | 5609 | 1.645929925 | 756 | 349 | 3407.8 | 378 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 10 | 5842 | 1.646004733 | 926 | 364 | 3549.2 | 392 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 11 | 6085 | 1.637777897 | 1006 | 381 | 3715.4 | 410 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 12 | 6646 | 1.650237132 | 1212 | 413 | 4027.3 | 448 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 13 | 6160 | 1.637513956 | 1045 | 386 | 3761.8 | 417 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 14 | 6247 | 1.640579862 | 1051 | 390 | 3807.8 | 421 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 15 | 6477 | 1.640079003 | 1153 | 405 | 3949.2 | 436 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 16 | 6215 | 1.638199167 | 1077 | 389 | 3793.8 | 419 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 17 | 6109 | 1.622188587 | 1054 | 386 | 3765.9 | 416 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 18 | 5856 | 1.622834973 | 920 | 370 | 3608.5 | 399 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 19 | 6057 | 1.627001182 | 1038 | 382 | 3722.8 | 416 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 20 | 5307 | 1.621250076 | 707 | 335 | 3273.4 | 363 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 21 | 4106 | 1.621771072 | 465 | 259 | 2531.8 | 270 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 22 | 2130 | 1.592285266 | 529 | 137 | 1337.7 | 121 |
| FL | Crystal River | 2 | 2013 | 9/12/2013 | 23 | 2144 | 1.578211262 | 529 | 139 | 1358.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 0 | 2147 | 1.587313322 | 528 | 138 | 1352.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 1 | 2150 | 1.569686793 | 534 | 140 | 1369.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 2 | 2138 | 1.567104009 | 521 | 140 | 1364.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 3 | 2137 | 1.5669453 | 491 | 139 | 1363.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 4 | 2108 | 1.561597155 | 463 | 138 | 1349.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 5 | 2135 | 1.564446398 | 439 | 140 | 1364.7 | 120 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 6 | 2089 | 1.561168821 | 440 | 137 | 1338.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 7 | 2242 | 1.571348472 | 402 | 146 | 1426.8 | 126 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 8 | 2585 | 1.58657092 | 382 | 167 | 1629.3 | 150 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 9 | 3741 | 1.615564001 | 467 | 237 | 2315.6 | 231 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 10 | 6204 | 1.645928952 | 1134 | 386 | 3769.3 | 410 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 11 | 6601 | 1.65579692 | 1211 | 409 | 3986.6 | 439 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 12 | 7039 | 1.648825279 | 1383 | 438 | 4269.1 | 471 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 13 | 7179 | 1.659385618 | 1427 | 443 | 4326.3 | 478 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 14 | 6201 | 1.660907995 | 1045 | 383 | 3733.5 | 411 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 15 | 7058 | 1.661957238 | 1371 | 435 | 4246.8 | 465 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 16 | 6272 | 1.64641029 | 1078 | 390 | 3809.5 | 417 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 17 | 5531 | 1.632767528 | 796 | 347 | 3387.5 | 370 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 18 | 5247 | 1.625112274 | 616 | 331 | 3228.7 | 351 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 19 | 5357 | 1.62727825 | 651 | 337 | 3292 | 359 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 20 | 3034 | 1.612371791 | 449 | 193 | 1881.7 | 186 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 21 | 2184 | 1.579746835 | 503 | 141 | 1382.5 | 120 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 22 | 2189 | 1.586002029 | 503 | 141 | 1380.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/13/2013 | 23 | 2173 | 1.569406327 | 509 | 142 | 1384.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 0 | 2173 | 1.577724534 | 488 | 141 | 1377.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 1 | 2182 | 1.574882714 | 468 | 142 | 1385.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 2 | 2193 | 1.577811353 | 458 | 142 | 1389.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 3 | 2188 | 1.581953583 | 442 | 141 | 1383.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 4 | 2158 | 1.577831396 | 445 | 140 | 1367.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 5 | 2169 | 1.56549982 | 406 | 142 | 1385.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 6 | 2129 | 1.577037037 | 390 | 138 | 1350 | 119 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 7 | 2165 | 1.573629888 | 416 | 141 | 1375.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 8 | 3041 | 1.60086334 | 410 | 194 | 1899.6 | 179 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 9 | 4063 | 1.601119168 | 464 | 260 | 2537.6 | 255 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 10 | 6845 | 1.621884182 | 1392 | 433 | 4220.4 | 461 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 11 | 6275 | 1.616185031 | 1172 | 398 | 3882.6 | 430 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 12 | 5708 | 1.595750629 | 922 | 367 | 3577 | 391 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 13 | 6778 | 1.607189434 | 1298 | 432 | 4217.3 | 464 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 14 | 6896 | 1.609222225 | 1349 | 439 | 4285.3 | 472 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 15 | 7233 | 1.617939828 | 1457 | 458 | 4470.5 | 494 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 16 | 7551 | 1.619552162 | 1557 | 478 | 4662.4 | 512 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 17 | 7339 | 1.633902531 | 1486 | 460 | 4491.7 | 499 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 18 | 6196 | 1.616530564 | 1061 | 393 | 3832.9 | 421 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 19 | 5784 | 1.620349619 | 899 | 366 | 3569.6 | 393 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 20 | 4070 | 1.604130538 | 436 | 260 | 2537.2 | 263 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 21 | 2486 | 1.56637893 | 373 | 162 | 1587.1 | 139 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 22 | 2300 | 1.553004727 | 413 | 151 | 1481 | 122 |
| FL | Crystal River | 2 | 2013 | 9/14/2013 | 23 | 2199 | 1.551651143 | 463 | 145 | 1417.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 0 | 2178 | 1.562634524 | 465 | 143 | 1393.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 1 | 2174 | 1.555523755 | 465 | 143 | 1397.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 2 | 2163 | 1.549648947 | 456 | 143 | 1395.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 3 | 2158 | 1.555315315 | 438 | 142 | 1387.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 4 | 2124 | 1.556614144 | 427 | 140 | 1364.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 5 | 2142 | 1.549927641 | 409 | 141 | 1382 | 119 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 6 | 2094 | 1.546528804 | 413 | 138 | 1354 | 119 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 7 | 2264 | 1.545497986 | 391 | 150 | 1464.9 | 130 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 8 | 4304 | 1.592894152 | 499 | 277 | 2702 | 273 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 9 | 4872 | 1.581304771 | 727 | 316 | 3081 | 327 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 10 | 6070 | 1.601878975 | 1110 | 388 | 3789.3 | 412 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 11 | 6638 | 1.644249585 | 1243 | 414 | 4037.1 | 444 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 12 | 6816 | 1.660899654 | 1235 | 421 | 4103.8 | 447 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 13 | 6072 | 1.647761194 | 958 | 378 | 3685 | 401 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 14 | 5805 | 1.640432927 | 845 | 363 | 3538.7 | 382 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 15 | 5890 | 1.6440115 | 910 | 367 | 3582.7 | 392 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 16 | 5506 | 1.625483423 | 721 | 347 | 3387.3 | 349 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 17 | 4723 | 1.615695129 | 523 | 299 | 2923.2 | 318 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 18 | 4643 | 1.602249983 | 481 | 297 | 2897.8 | 284 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 19 | 4649 | 1.576680459 | 545 | 302 | 2948.6 | 321 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 20 | 2499 | 1.529282174 | 428 | 167 | 1634.1 | 147 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 21 | 1943 | 1.487862777 | 421 | 134 | 1305.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 22 | 2024 | 1.495713863 | 445 | 138 | 1353.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/15/2013 | 23 | 1955 | 1.502690238 | 426 | 133 | 1301 | 119 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 0 | 2156 | 1.501392758 | 389 | 147 | 1436 | 119 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 1 | 2178 | 1.516713092 | 380 | 147 | 1436 | 119 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 2 | 2169 | 1.510445682 | 392 | 147 | 1436 | 119 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 3 | 2182 | 1.519498607 | 415 | 147 | 1436 | 119 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 4 | 2153 | 1.534568781 | 430 | 143 | 1403 | 119 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 5 | 2179 | 1.535047552 | 441 | 145 | 1419.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 6 | 2143 | 1.527441197 | 429 | 143 | 1403 | 120 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 7 | 2163 | 1.523775977 | 417 | 145 | 1419.5 | 121 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 8 | 2452 | 1.547491322 | 353 | 162 | 1584.5 | 161 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 9 | 2734 | 1.537855777 | 352 | 182 | 1777.8 | 169 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 10 | 4524 | 1.560807314 | 495 | 297 | 2898.5 | 283 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 11 | 6795 | 1.598259438 | 1254 | 436 | 4251.5 | 445 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 12 | 6905 | 1.610608322 | 1384 | 439 | 4287.2 | 488 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 13 | 7423 | 1.611978545 | 1505 | 472 | 4604.9 | 495 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 14 | 7363 | 1.598948946 | 1533 | 472 | 4604.9 | 500 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 15 | 6801 | 1.586350065 | 1410 | 439 | 4287.2 | 490 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 16 | 6010 | 1.580040487 | 1015 | 390 | 3803.7 | 407 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 17 | 5372 | 1.572461435 | 789 | 350 | 3416.3 | 352 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 18 | 4622 | 1.567098393 | 516 | 302 | 2949.4 | 314 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 19 | 6070 | 1.595814602 | 1030 | 390 | 3803.7 | 414 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 20 | 3845 | 1.588908633 | 464 | 248 | 2419.9 | 240 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 21 | 2101 | 1.546786424 | 532 | 139 | 1358.3 | 120 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 22 | 2109 | 1.530034823 | 522 | 141 | 1378.4 | 119 |
| FL | Crystal River | 2 | 2013 | 9/16/2013 | 23 | 1995 | 1.52394775 | 484 | 134 | 1309.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 0 | 2020 | 1.51118426 | 501 | 137 | 1336.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 1 | 2043 | 1.505859807 | 484 | 139 | 1356.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 2 | 1886 | 1.505067433 | 437 | 128 | 1253.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 3 | 1705 | 1.508582552 | 363 | 116 | 1130.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 4 | 1435 | 1.498068692 | 299 | 98 | 957.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 5 | 1314 | 1.508957281 | 271 | 89 | 870.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 6 | 2021 | 1.494822485 | 409 | 138 | 1352 | 119 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 7 | 2049 | 1.497259773 | 427 | 140 | 1368.5 | 120 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 8 | 2097 | 1.514079422 | 408 | 142 | 1385 | 126 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 9 | 2217 | 1.509600981 | 440 | 150 | 1468.6 | 130 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 10 | 3911 | 1.562962075 | 477 | 256 | 2502.3 | 255 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 11 | 4803 | 1.564393199 | 749 | 315 | 3070.2 | 324 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 12 | 5735 | 1.532275302 | 1111 | 384 | 3742.8 | 407 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 13 | 6312 | 1.495486531 | 1375 | 433 | 4220.7 | 463 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 14 | 6185 | 1.526105409 | 1199 | 415 | 4052.8 | 444 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 15 | 6634 | 1.561345289 | 1363 | 435 | 4248.9 | 469 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 16 | 6006 | 1.593441579 | 1119 | 386 | 3769.2 | 441 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 17 | 5979 | 1.587836941 | 1009 | 386 | 3765.5 | 417 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 18 | 5285 | 1.573666031 | 772 | 344 | 3358.4 | 366 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 19 | 6008 | 1.55053164 | 1139 | 397 | 3874.8 | 429 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 20 | 3333 | 1.503586412 | 443 | 227 | 2216.7 | 225 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 21 | 2060 | 1.486613264 | 381 | 142 | 1385.7 | 120 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 22 | 2072 | 1.474418274 | 371 | 144 | 1405.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/17/2013 | 23 | 2057 | 1.484019912 | 385 | 142 | 1386.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 0 | 2053 | 1.471473624 | 379 | 143 | 1395.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 1 | 2062 | 1.476654254 | 372 | 143 | 1396.4 | 119 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 2 | 2046 | 1.480248879 | 367 | 141 | 1382.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 3 | 2051 | 1.496315751 | 368 | 140 | 1370.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 4 | 2031 | 1.498229566 | 359 | 139 | 1355.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 5 | 2030 | 1.477653225 | 358 | 141 | 1373.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 6 | 1958 | 1.442888725 | 344 | 139 | 1357 | 119 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 7 | 1971 | 1.435333528 | 343 | 140 | 1373.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 8 | 2025 | 1.446221968 | 331 | 143 | 1400.2 | 122 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 9 | 2084 | 1.473728873 | 328 | 145 | 1414.1 | 123 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 10 | 2110 | 1.491482293 | 331 | 145 | 1414.7 | 123 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 11 | 2132 | 1.509487397 | 329 | 144 | 1412.4 | 123 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 12 | 2167 | 1.527993231 | 330 | 145 | 1418.2 | 124 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 13 | 3435 | 1.516288514 | 412 | 232 | 2265.4 | 214 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 14 | 2769 | 1.554482681 | 395 | 182 | 1781.3 | 164 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 15 | 3578 | 1.536281666 | 423 | 239 | 2329 | 228 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 16 | 3702 | 1.559130728 | 396 | 243 | 2374.4 | 233 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 17 | 3672 | 1.59575855 | 382 | 236 | 2301.1 | 223 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 18 | 3786 | 1.622594608 | 350 | 239 | 2333.3 | 227 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 19 | 3676 | 1.580259651 | 425 | 238 | 2326.2 | 236 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 20 | 2079 | 1.544002971 | 472 | 138 | 1346.5 | 120 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 21 | 2185 | 1.526690889 | 417 | 146 | 1431.2 | 127 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 22 | 2146 | 1.539675707 | 444 | 143 | 1393.8 | 124 |
| FL | Crystal River | 2 | 2013 | 9/18/2013 | 23 | 2160 | 1.546170365 | 431 | 143 | 1397 | 124 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 0 | 2176 | 1.552068474 | 437 | 143 | 1402 | 124 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 1 | 2189 | 1.548747701 | 435 | 145 | 1413.4 | 124 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 2 | 2191 | 1.562767475 | 437 | 143 | 1402 | 124 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 3 | 2196 | 1.559991475 | 433 | 144 | 1407.7 | 124 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 4 | 2172 | 1.562365127 | 433 | 142 | 1390.2 | 124 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 5 | 2343 | 1.553919618 | 401 | 154 | 1507.8 | 136 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 6 | 2105 | 1.562268072 | 447 | 138 | 1347.4 | 121 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 7 | 2178 | 1.562858783 | 405 | 143 | 1393.6 | 125 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 8 | 2176 | 1.548644225 | 413 | 144 | 1405.1 | 123 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 9 | 2687 | 1.568501547 | 376 | 175 | 1713.1 | 156 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 10 | 2909 | 1.557113799 | 394 | 191 | 1868.2 | 176 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 11 | 4305 | 1.526433358 | 510 | 289 | 2820.3 | 291 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 12 | 6677 | 1.569655367 | 1322 | 436 | 4253.8 | 472 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 13 | 6897 | 1.570426704 | 1409 | 450 | 4391.8 | 490 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 14 | 7027 | 1.5601341 | 1481 | 462 | 4504.1 | 502 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 15 | 6995 | 1.552305712 | 1478 | 462 | 4506.2 | 502 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 16 | 7087 | 1.574888889 | 1471 | 461 | 4500 | 502 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 17 | 6544 | 1.583085371 | 1293 | 424 | 4133.7 | 465 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 18 | 5408 | 1.572275846 | 736 | 352 | 3439.6 | 379 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 19 | 6271 | 1.567162314 | 1132 | 410 | 4001.5 | 442 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 20 | 4737 | 1.561665513 | 649 | 311 | 3033.3 | 331 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 21 | 2603 | 1.520799252 | 407 | 175 | 1711.6 | 161 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 22 | 2039 | 1.485177362 | 476 | 140 | 1372.9 | 121 |
| FL | Crystal River | 2 | 2013 | 9/19/2013 | 23 | 2012 | 1.486296816 | 503 | 138 | 1353.7 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 0 | 2014 | 1.472114612 | 502 | 140 | 1368.1 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 1 | 2007 | 1.474434323 | 488 | 139 | 1361.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 2 | 1982 | 1.458210712 | 448 | 139 | 1359.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 3 | 1951 | 1.447973876 | 447 | 138 | 1347.4 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 4 | 1952 | 1.464475955 | 437 | 136 | 1332.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 5 | 1978 | 1.460425281 | 430 | 139 | 1354.4 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 6 | 1964 | 1.469839844 | 423 | 137 | 1336.2 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 7 | 1999 | 1.47691171 | 419 | 138 | 1353.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 8 | 2006 | 1.492781664 | 428 | 137 | 1343.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 9 | 2032 | 1.495987632 | 463 | 139 | 1358.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 10 | 2833 | 1.514568297 | 437 | 191 | 1870.5 | 177 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 11 | 5205 | 1.535805966 | 725 | 347 | 3389.1 | 364 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 12 | 6521 | 1.542738177 | 1369 | 433 | 4226.9 | 470 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 13 | 6516 | 1.542175518 | 1330 | 433 | 4225.2 | 469 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 14 | 6733 | 1.547424789 | 1353 | 446 | 4351.1 | 480 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 15 | 7187 | 1.565761095 | 1491 | 470 | 4590.1 | 508 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 16 | 6718 | 1.506075416 | 1422 | 457 | 4460.6 | 494 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 17 | 5695 | 1.495417903 | 1032 | 390 | 3808.3 | 420 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 18 | 6068 | 1.500902817 | 1148 | 414 | 4042.9 | 449 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 19 | 5040 | 1.467206195 | 803 | 352 | 3435.1 | 379 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 20 | 2797 | 1.429447539 | 393 | 200 | 1956.7 | 196 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 21 | 1894 | 1.380969741 | 459 | 140 | 1371.5 | 121 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 22 | 1971 | 1.403446312 | 443 | 144 | 1404.4 | 124 |
| FL | Crystal River | 2 | 2013 | 9/20/2013 | 23 | 1979 | 1.431050691 | 461 | 141 | 1382.9 | 122 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 0 | 1999 | 1.445304027 | 475 | 141 | 1383.1 | 120 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 1 | 2039 | 1.486368275 | 448 | 140 | 1371.8 | 121 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 2 | 2044 | 1.49798461 | 436 | 140 | 1364.5 | 119 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 3 | 2074 | 1.524663677 | 429 | 139 | 1360.3 | 120 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 4 | 2123 | 1.569453685 | 446 | 138 | 1352.7 | 120 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 5 | 2206 | 1.617539229 | 462 | 139 | 1363.8 | 121 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 6 | 2294 | 1.696620072 | 443 | 138 | 1352.1 | 121 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 7 | 2523 | 1.748804325 | 440 | 148 | 1442.7 | 129 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 8 | 2899 | 1.762202906 | 383 | 168 | 1645.1 | 151 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 9 | 3399 | 1.758861578 | 349 | 198 | 1932.5 | 185 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 10 | 3560 | 1.707434053 | 364 | 213 | 2085 | 200 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 11 | 5445 | 1.635872014 | 738 | 341 | 3328.5 | 356 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 12 | 6742 | 1.611607783 | 1330 | 429 | 4183.4 | 464 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 13 | 7110 | 1.637531956 | 1385 | 445 | 4341.9 | 484 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 14 | 7460 | 1.650296434 | 1478 | 463 | 4520.4 | 503 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 15 | 6983 | 1.638701805 | 1363 | 437 | 4261.3 | 477 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 16 | 6063 | 1.649751027 | 933 | 377 | 3675.1 | 406 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 17 | 5941 | 1.667274717 | 865 | 365 | 3563.3 | 394 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 18 | 7002 | 1.688653081 | 1223 | 425 | 4146.5 | 461 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 19 | 5918 | 1.681871146 | 890 | 361 | 3518.7 | 393 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 20 | 4316 | 1.644378405 | 464 | 269 | 2624.7 | 276 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 21 | 3127 | 1.627967514 | 380 | 197 | 1920.8 | 189 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 22 | 2264 | 1.597516229 | 435 | 145 | 1417.2 | 127 |
| FL | Crystal River | 2 | 2013 | 9/21/2013 | 23 | 2141 | 1.563001898 | 479 | 140 | 1369.8 | 120 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 0 | 2146 | 1.564367984 | 476 | 140 | 1371.8 | 121 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 1 | 2244 | 1.569889464 | 424 | 146 | 1429.4 | 128 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 2 | 2120 | 1.559511549 | 469 | 139 | 1359.4 | 120 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 3 | 2129 | 1.566132117 | 456 | 139 | 1359.4 | 120 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 4 | 2120 | 1.556763108 | 438 | 139 | 1361.8 | 120 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 5 | 2152 | 1.574941452 | 456 | 140 | 1366.4 | 120 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 6 | 2139 | 1.585854093 | 408 | 138 | 1348.8 | 120 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 7 | 2230 | 1.595935018 | 415 | 143 | 1397.3 | 124 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 8 | 3093 | 1.615312304 | 427 | 196 | 1914.8 | 184 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 9 | 5100 | 1.631582315 | 722 | 320 | 3125.8 | 335 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 10 | 5429 | 1.592782749 | 814 | 349 | 3408.5 | 377 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 11 | 5377 | 1.587493726 | 765 | 347 | 3387.1 | 378 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 12 | 5756 | 1.621911015 | 894 | 364 | 3548.9 | 394 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 13 | 5455 | 1.569377715 | 855 | 356 | 3475.9 | 387 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 14 | 5582 | 1.577816722 | 895 | 363 | 3537.8 | 394 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 15 | 5676 | 1.571776695 | 946 | 370 | 3611.2 | 402 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 16 | 5533 | 1.560525722 | 911 | 363 | 3545.6 | 394 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 17 | 5404 | 1.552873563 | 866 | 357 | 3480 | 386 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 18 | 6250 | 1.573435376 | 1144 | 407 | 3972.2 | 441 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 19 | 5782 | 1.596972877 | 970 | 371 | 3620.6 | 403 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 20 | 4249 | 1.609530664 | 464 | 270 | 2639.9 | 284 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 21 | 2372 | 1.579543184 | 437 | 154 | 1501.7 | 137 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 22 | 2185 | 1.565522677 | 471 | 143 | 1395.7 | 122 |
| FL | Crystal River | 2 | 2013 | 9/22/2013 | 23 | 2155 | 1.571616103 | 488 | 140 | 1371.2 | 120 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 0 | 2127 | 1.557101025 | 479 | 140 | 1366 | 120 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 1 | 2114 | 1.529445811 | 476 | 141 | 1382.2 | 120 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 2 | 2112 | 1.529215842 | 461 | 141 | 1381.1 | 120 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 3 | 2120 | 1.550954715 | 464 | 140 | 1366.9 | 120 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 4 | 2564 | 1.571656246 | 383 | 167 | 1631.4 | 148 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 5 | 3704 | 1.589290312 | 382 | 239 | 2330.6 | 227 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 6 | 2305 | 1.571876705 | 456 | 150 | 1466.4 | 146 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 7 | 2122 | 1.559262253 | 484 | 139 | 1360.9 | 121 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 8 | 2339 | 1.563502674 | 426 | 153 | 1496 | 135 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 9 | 3361 | 1.592966491 | 360 | 216 | 2109.9 | 203 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 10 | 4093 | 1.552142586 | 456 | 270 | 2637 | 270 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 11 | 5570 | 1.532746285 | 977 | 372 | 3634 | 399 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 12 | 4336 | 1.530370946 | 617 | 290 | 2833.3 | 304 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 13 | 4604 | 1.527132811 | 621 | 309 | 3014.8 | 321 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 14 | 4924 | 1.543041584 | 651 | 327 | 3191.1 | 347 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 15 | 5297 | 1.57344423 | 690 | 345 | 3366.5 | 372 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 16 | 4899 | 1.580220631 | 601 | 318 | 3100.2 | 336 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 17 | 4229 | 1.584844851 | 475 | 273 | 2668.4 | 278 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 18 | 5153 | 1.599764056 | 628 | 330 | 3221.1 | 352 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 19 | 4281 | 1.459697218 | 545 | 300 | 2932.8 | 316 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 20 | 2038 | 1.354692901 | 424 | 154 | 1504.4 | 140 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 21 | 1892 | 1.354039934 | 433 | 143 | 1397.3 | 124 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 22 | 1931 | 1.386415853 | 442 | 142 | 1392.8 | 122 |
| FL | Crystal River | 2 | 2013 | 9/23/2013 | 23 | 2221 | 1.448415286 | 412 | 157 | 1533.4 | 138 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 0 | 2246 | 1.500935579 | 425 | 153 | 1496.4 | 138 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 1 | 2087 | 1.509911735 | 453 | 141 | 1382.2 | 121 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 2 | 2165 | 1.532417894 | 404 | 145 | 1412.8 | 121 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 3 | 2206 | 1.54970144 | 410 | 146 | 1423.5 | 121 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 4 | 2416 | 1.56001808 | 384 | 158 | 1548.7 | 136 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 5 | 2970 | 1.554241457 | 353 | 196 | 1910.9 | 176 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 6 | 2103 | 1.482447483 | 421 | 145 | 1418.6 | 129 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 7 | 3165 | 1.473395093 | 485 | 220 | 2148.1 | 208 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 8 | 5772 | 1.528318373 | 1091 | 387 | 3776.7 | 412 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 9 | 5719 | 1.551798991 | 998 | 378 | 3685.4 | 410 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 10 | 5376 | 1.560884966 | 802 | 353 | 3444.2 | 383 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 11 | 6269 | 1.574453123 | 1106 | 408 | 3981.7 | 441 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 12 | 6913 | 1.593003963 | 1397 | 445 | 4339.6 | 487 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 13 | 6644 | 1.579347723 | 1291 | 431 | 4206.8 | 469 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 14 | 6252 | 1.541990381 | 1179 | 416 | 4054.5 | 452 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 15 | 6319 | 1.537918614 | 1195 | 421 | 4108.8 | 457 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 16 | 6418 | 1.542899728 | 1281 | 426 | 4159.7 | 465 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 17 | 6953 | 1.574787099 | 1395 | 453 | 4415.2 | 493 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 18 | 6479 | 1.593340383 | 1158 | 417 | 4066.3 | 453 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 19 | 5839 | 1.596009293 | 925 | 375 | 3658.5 | 408 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 20 | 5071 | 1.57123381 | 690 | 331 | 3227.4 | 354 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 21 | 4233 | 1.581483972 | 471 | 274 | 2676.6 | 282 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 22 | 4323 | 1.587762148 | 481 | 279 | 2722.7 | 283 |
| FL | Crystal River | 2 | 2013 | 9/24/2013 | 23 | 2321 | 1.550434202 | 411 | 153 | 1497 | 138 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 0 | 2149 | 1.562454559 | 508 | 141 | 1375.4 | 120 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 1 | 2142 | 1.559065434 | 519 | 141 | 1373.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 2 | 2129 | 1.561079337 | 512 | 139 | 1363.8 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 3 | 2152 | 1.568398805 | 498 | 140 | 1372.1 | 120 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 4 | 2553 | 1.578752087 | 397 | 165 | 1617.1 | 148 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 5 | 3696 | 1.602636372 | 389 | 236 | 2306.2 | 231 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 6 | 3701 | 1.606545991 | 373 | 236 | 2303.7 | 236 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 7 | 3726 | 1.605065909 | 366 | 238 | 2321.4 | 234 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 8 | 3046 | 1.608321453 | 314 | 194 | 1893.9 | 184 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 9 | 2281 | 1.592654657 | 432 | 146 | 1432.2 | 130 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 10 | 2174 | 1.583394028 | 498 | 140 | 1373 | 120 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 11 | 2613 | 1.600906752 | 355 | 167 | 1632.2 | 150 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 12 | 3902 | 1.598983732 | 453 | 250 | 2440.3 | 245 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 13 | 4493 | 1.563489578 | 566 | 294 | 2873.7 | 303 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 14 | 5455 | 1.613094006 | 716 | 347 | 3381.7 | 370 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 15 | 5353 | 1.623203348 | 679 | 338 | 3297.8 | 361 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 16 | 5415 | 1.642601468 | 682 | 338 | 3296.6 | 363 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 17 | 5924 | 1.665729389 | 775 | 364 | 3556.4 | 392 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 18 | 7171 | 1.648051112 | 1435 | 446 | 4351.2 | 482 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 19 | 7298 | 1.643841788 | 1562 | 455 | 4439.6 | 501 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 20 | 5749 | 1.646523084 | 939 | 358 | 3491.6 | 393 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 21 | 4427 | 1.649895647 | 520 | 275 | 2683.2 | 290 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 22 | 2877 | 1.633081682 | 248 | 180 | 1761.7 | 165 |
| FL | Crystal River | 2 | 2013 | 9/25/2013 | 23 | 2194 | 1.606737459 | 456 | 140 | 1365.5 | 120 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 0 | 2223 | 1.608887602 | 431 | 141 | 1381.7 | 121 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 1 | 2297 | 1.609670638 | 419 | 146 | 1427 | 125 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 2 | 2187 | 1.613069774 | 442 | 139 | 1355.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 3 | 2186 | 1.606289955 | 430 | 139 | 1360.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 4 | 2163 | 1.620467486 | 412 | 137 | 1334.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 5 | 2163 | 1.609614526 | 419 | 137 | 1343.8 | 119 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 6 | 2218 | 1.618623659 | 368 | 140 | 1370.3 | 123 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 7 | 3050 | 1.646068325 | 392 | 190 | 1852.9 | 180 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 8 | 4550 | 1.667827426 | 515 | 279 | 2728.1 | 280 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 9 | 4447 | 1.655560106 | 467 | 275 | 2686.1 | 276 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 10 | 4592 | 1.667513981 | 470 | 282 | 2753.8 | 286 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 11 | 5883 | 1.682251008 | 800 | 358 | 3497.1 | 386 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 12 | 6491 | 1.662909259 | 1194 | 400 | 3903.4 | 430 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 13 | 6470 | 1.653716389 | 1122 | 401 | 3912.4 | 432 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 14 | 6766 | 1.664903172 | 1320 | 417 | 4063.9 | 451 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 15 | 6355 | 1.673249078 | 1055 | 389 | 3798 | 420 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 16 | 5837 | 1.678504673 | 845 | 356 | 3477.5 | 386 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 17 | 5731 | 1.659860399 | 845 | 354 | 3452.7 | 383 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 18 | 5655 | 1.661378459 | 823 | 349 | 3403.8 | 380 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 19 | 4823 | 1.650412346 | 616 | 299 | 2922.3 | 322 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 20 | 2522 | 1.609547514 | 451 | 160 | 1566.9 | 148 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 21 | 2100 | 1.575512041 | 373 | 136 | 1332.9 | 120 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 22 | 2171 | 1.590126712 | 421 | 140 | 1365.3 | 120 |
| FL | Crystal River | 2 | 2013 | 9/26/2013 | 23 | 2165 | 1.601805268 | 427 | 138 | 1351.6 | 120 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 0 | 2168 | 1.594469368 | 398 | 139 | 1359.7 | 120 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 1 | 2157 | 1.600504563 | 378 | 138 | 1347.7 | 120 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 2 | 2139 | 1.593889717 | 371 | 137 | 1342 | 120 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 3 | 2158 | 1.579448145 | 401 | 140 | 1366.3 | 120 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 4 | 2130 | 1.582466568 | 401 | 138 | 1346 | 120 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 5 | 2214 | 1.585392052 | 400 | 143 | 1396.5 | 126 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 6 | 2166 | 1.573327522 | 397 | 141 | 1376.7 | 123 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 7 | 2735 | 1.581564795 | 399 | 177 | 1729.3 | 162 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 8 | 3652 | 1.593994151 | 403 | 235 | 2291.1 | 229 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 9 | 5091 | 1.63361571 | 638 | 319 | 3116.4 | 337 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 10 | 4497 | 1.625460854 | 511 | 283 | 2766.6 | 292 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 11 | 6031 | 1.64516217 | 912 | 376 | 3665.9 | 408 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 12 | 6613 | 1.661724796 | 1205 | 408 | 3979.6 | 447 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 13 | 7002 | 1.669726958 | 1341 | 430 | 4193.5 | 472 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 14 | 7152 | 1.651846548 | 1363 | 444 | 4329.7 | 485 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 15 | 7199 | 1.661128802 | 1391 | 444 | 4333.8 | 486 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 16 | 7060 | 1.654441919 | 1344 | 437 | 4267.3 | 478 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 17 | 6409 | 1.649126418 | 1115 | 398 | 3886.3 | 437 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 18 | 6444 | 1.664256198 | 1091 | 397 | 3872 | 437 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 19 | 6078 | 1.655454174 | 976 | 376 | 3671.5 | 415 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 20 | 5838 | 1.673067003 | 844 | 358 | 3489.4 | 393 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 21 | 5037 | 1.694704259 | 633 | 304 | 2972.2 | 331 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 22 | 4580 | 1.690411161 | 490 | 278 | 2709.4 | 293 |
| FL | Crystal River | 2 | 2013 | 9/27/2013 | 23 | 3260 | 1.659117512 | 379 | 201 | 1964.9 | 196 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 0 | 2178 | 1.63403106 | 477 | 136 | 1332.9 | 121 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 1 | 2189 | 1.623164763 | 469 | 138 | 1348.6 | 121 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 2 | 2175 | 1.605877141 | 471 | 139 | 1354.4 | 121 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 3 | 2167 | 1.603047788 | 467 | 138 | 1351.8 | 121 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 4 | 2127 | 1.584711667 | 428 | 137 | 1342.2 | 121 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 5 | 2135 | 1.574599897 | 413 | 139 | 1355.9 | 121 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 6 | 2137 | 1.552600988 | 379 | 141 | 1376.4 | 124 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 7 | 3408 | 1.574206661 | 424 | 222 | 2164.9 | 215 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 8 | 5168 | 1.592996733 | 707 | 332 | 3244.2 | 353 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 9 | 6094 | 1.610635374 | 1131 | 388 | 3783.6 | 423 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 10 | 6299 | 1.623202598 | 1168 | 398 | 3880.6 | 438 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 11 | 6775 | 1.643699355 | 1331 | 422 | 4121.8 | 466 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 12 | 7201 | 1.667747464 | 1407 | 443 | 4317.8 | 489 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 13 | 7579 | 1.68827408 | 1508 | 460 | 4489.2 | 506 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 14 | 7665 | 1.711013885 | 1447 | 459 | 4479.8 | 506 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 15 | 7639 | 1.714856553 | 1412 | 457 | 4454.6 | 506 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 16 | 7595 | 1.708738301 | 1422 | 456 | 4444.8 | 506 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 17 | 7629 | 1.70778116 | 1438 | 458 | 4467.2 | 506 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 18 | 7306 | 1.720718811 | 1346 | 435 | 4245.9 | 485 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 19 | 6310 | 1.70840666 | 971 | 379 | 3693.5 | 420 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 20 | 5792 | 1.682693704 | 802 | 353 | 3442.1 | 389 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 21 | 5067 | 1.66387548 | 621 | 312 | 3045.3 | 338 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 22 | 4728 | 1.630401048 | 530 | 297 | 2899.9 | 316 |
| FL | Crystal River | 2 | 2013 | 9/28/2013 | 23 | 3993 | 1.60761736 | 404 | 254 | 2483.8 | 261 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 0 | 2528 | 1.614303959 | 388 | 160 | 1566 | 150 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 1 | 2186 | 1.600878799 | 439 | 140 | 1365.5 | 122 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 2 | 2149 | 1.604210212 | 466 | 137 | 1339.6 | 119 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 3 | 2158 | 1.601603087 | 459 | 138 | 1347.4 | 119 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 4 | 2122 | 1.580868658 | 417 | 137 | 1342.3 | 119 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 5 | 2119 | 1.574411175 | 399 | 138 | 1345.9 | 119 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 6 | 2071 | 1.559487952 | 385 | 136 | 1328 | 119 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 7 | 3220 | 1.585113715 | 406 | 208 | 2031.4 | 202 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 8 | 5207 | 1.581232918 | 711 | 337 | 3293 | 360 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 9 | 6581 | 1.594582152 | 1308 | 423 | 4127.1 | 464 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 10 | 6802 | 1.622266212 | 1345 | 430 | 4192.9 | 475 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 11 | 7333 | 1.642586744 | 1459 | 458 | 4464.3 | 504 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 12 | 7636 | 1.662747147 | 1547 | 471 | 4592.4 | 516 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 13 | 7700 | 1.672168172 | 1538 | 472 | 4604.8 | 516 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 14 | 7711 | 1.678457152 | 1539 | 471 | 4594.1 | 517 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 15 | 7752 | 1.682839466 | 1538 | 472 | 4606.5 | 516 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 16 | 7811 | 1.693221478 | 1545 | 473 | 4613.1 | 516 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 17 | 7755 | 1.684880614 | 1546 | 472 | 4602.7 | 516 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 18 | 7659 | 1.672891685 | 1533 | 469 | 4578.3 | 516 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 19 | 7650 | 1.675170254 | 1525 | 468 | 4566.7 | 516 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 20 | 6820 | 1.664551401 | 1253 | 420 | 4097.2 | 464 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 21 | 5685 | 1.65026561 | 809 | 353 | 3444.9 | 385 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 22 | 5659 | 1.647356777 | 831 | 352 | 3435.2 | 381 |
| FL | Crystal River | 2 | 2013 | 9/29/2013 | 23 | 4138 | 1.640175988 | 421 | 258 | 2522.9 | 266 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 0 | 2575 | 1.620210155 | 403 | 163 | 1589.3 | 151 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 1 | 2271 | 1.596036264 | 402 | 146 | 1422.9 | 124 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 2 | 2215 | 1.594213329 | 432 | 142 | 1389.4 | 120 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 3 | 2206 | 1.565094005 | 429 | 144 | 1409.5 | 121 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 4 | 2425 | 1.550412378 | 351 | 160 | 1564.1 | 138 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 5 | 3231 | 1.562076968 | 380 | 212 | 2068.4 | 202 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 6 | 4235 | 1.58917783 | 506 | 273 | 2664.9 | 280 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 7 | 4987 | 1.618840486 | 597 | 316 | 3080.6 | 337 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 8 | 5336 | 1.618932039 | 685 | 338 | 3296 | 367 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 9 | 6371 | 1.624384896 | 1149 | 402 | 3922.1 | 442 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 10 | 6702 | 1.609471434 | 1303 | 427 | 4164.1 | 470 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 11 | 6740 | 1.602282182 | 1274 | 431 | 4206.5 | 471 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 12 | 7390 | 1.616607967 | 1513 | 469 | 4571.3 | 512 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 13 | 7310 | 1.607724114 | 1491 | 466 | 4546.8 | 511 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 14 | 7327 | 1.609268614 | 1484 | 467 | 4553 | 511 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 15 | 7360 | 1.619183808 | 1472 | 466 | 4545.5 | 511 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 16 | 7305 | 1.605741543 | 1487 | 466 | 4549.3 | 511 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 17 | 7286 | 1.601002 | 1479 | 466 | 4550.9 | 511 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 18 | 7307 | 1.605016913 | 1484 | 467 | 4552.6 | 511 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 19 | 7122 | 1.608909773 | 1425 | 454 | 4426.6 | 499 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 20 | 5810 | 1.617123135 | 880 | 368 | 3592.8 | 402 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 21 | 4693 | 1.628383067 | 553 | 295 | 2882 | 312 |
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 22 | 4132 | 1.62824605 | 433 | 260 | 2537.7 | 263 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 9/30/2013 | 23 | 2741 | 1.616060374 | 381 | 174 | 1696.1 | 160 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 0 | 2194 | 1.584916564 | 465 | 142 | 1384.3 | 120 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 1 | 2132 | 1.587845386 | 482 | 137 | 1342.7 | 119 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 2 | 2122 | 1.574067206 | 486 | 138 | 1348.1 | 119 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 3 | 2120 | 1.587420442 | 447 | 137 | 1335.5 | 119 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 4 | 2109 | 1.586191336 | 418 | 136 | 1329.6 | 120 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 5 | 3047 | 1.588965373 | 425 | 196 | 1917.6 | 194 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 6 | 3579 | 1.58953633 | 394 | 231 | 2251.6 | 231 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 7 | 5069 | 1.604824922 | 612 | 324 | 3158.6 | 342 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 8 | 6655 | 1.609937828 | 1281 | 424 | 4133.7 | 463 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 9 | 6838 | 1.616472034 | 1412 | 434 | 4230.2 | 477 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 10 | 6854 | 1.605565837 | 1442 | 438 | 4268.9 | 478 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 11 | 7074 | 1.58159501 | 1578 | 458 | 4472.7 | 502 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 12 | 7092 | 1.56362995 | 1437 | 465 | 4535.6 | 506 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 13 | 7142 | 1.57032607 | 1432 | 466 | 4548.1 | 507 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 14 | 6975 | 1.547867383 | 1405 | 462 | 4506.2 | 499 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 15 | 6778 | 1.52661096 | 1385 | 455 | 4439.9 | 495 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 16 | 6551 | 1.512444013 | 1342 | 444 | 4331.4 | 484 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 17 | 5249 | 1.503451436 | 834 | 358 | 3491.3 | 386 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 18 | 6456 | 1.526890876 | 1293 | 433 | 4228.2 | 471 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 19 | 5914 | 1.510716019 | 1103 | 401 | 3914.7 | 438 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 20 | 5299 | 1.537858781 | 771 | 353 | 3445.7 | 385 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 21 | 5205 | 1.557543839 | 748 | 342 | 3341.8 | 369 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 22 | 3262 | 1.566537002 | 358 | 213 | 2082.3 | 211 |
| FL | Crystal River | 2 | 2013 | 10/1/2013 | 23 | 2815 | 1.560767354 | 238 | 185 | 1803.6 | 173 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 0 | 2016 | 1.533779671 | 507 | 134 | 1314.4 | 119 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 1 | 2003 | 1.518344451 | 496 | 135 | 1319.2 | 119 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 2 | 1959 | 1.465549488 | 525 | 137 | 1336.7 | 119 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 3 | 1941 | 1.424587156 | 512 | 139 | 1362.5 | 119 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 4 | 1887 | 1.386990077 | 504 | 139 | 1360.5 | 119 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 5 | 2038 | 1.38601741 | 452 | 150 | 1470.4 | 128 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 6 | 1981 | 1.425179856 | 486 | 142 | 1390 | 124 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 7 | 3177 | 1.479739171 | 461 | 220 | 2147 | 212 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 8 | 4640 | 1.519418429 | 619 | 313 | 3053.8 | 327 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 9 | 6365 | 1.546066215 | 1235 | 422 | 4116.9 | 462 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 10 | 6504 | 1.537043602 | 1320 | 434 | 4231.5 | 475 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 11 | 6857 | 1.49393233 | 1482 | 470 | 4589.9 | 516 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 12 | 6617 | 1.434642153 | 1466 | 473 | 4612.3 | 516 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 13 | 6584 | 1.447001165 | 1437 | 466 | 4550.1 | 506 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 14 | 6705 | 1.471588789 | 1458 | 467 | 4556.3 | 507 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 15 | 6766 | 1.486869575 | 1469 | 466 | 4550.5 | 506 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 16 | 6872 | 1.513623048 | 1471 | 465 | 4540.1 | 506 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 17 | 6751 | 1.595566165 | 1328 | 434 | 4231.1 | 473 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 18 | 6442 | 1.701891578 | 1063 | 388 | 3785.2 | 424 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 19 | 6561 | 1.74699116 | 984 | 385 | 3755.6 | 420 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 20 | 6538 | 1.779967875 | 1028 | 376 | 3673.1 | 413 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 21 | 3400 | 1.734870905 | 405 | 201 | 1959.8 | 195 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 22 | 2303 | 1.679305819 | 453 | 140 | 1371.4 | 120 |
| FL | Crystal River | 2 | 2013 | 10/2/2013 | 23 | 2316 | 1.699691766 | 441 | 139 | 1362.6 | 120 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 0 | 2343 | 1.699057288 | 438 | 141 | 1379 | 121 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 1 | 2357 | 1.702050838 | 445 | 142 | 1384.8 | 120 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 2 | 2339 | 1.703941138 | 443 | 140 | 1372.7 | 120 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 3 | 2358 | 1.697379787 | 536 | 142 | 1389.2 | 120 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 4 | 2390 | 1.722646677 | 453 | 142 | 1387.4 | 123 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 5 | 2401 | 1.720037252 | 569 | 143 | 1395.9 | 122 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 6 | 2822 | 1.776742429 | 551 | 163 | 1588.3 | 147 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 7 | 3601 | 1.789050079 | 535 | 206 | 2012.8 | 195 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 8 | 5949 | 1.799401107 | 929 | 339 | 3306.1 | 360 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 9 | 7079 | 1.820028281 | 1166 | 399 | 3889.5 | 439 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 10 | 7452 | 1.805057649 | 1259 | 423 | 4128.4 | 465 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 11 | 8051 | 1.793255524 | 1459 | 460 | 4489.6 | 508 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 12 | 8002 | 1.759106597 | 1446 | 466 | 4548.9 | 511 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 13 | 8077 | 1.773839329 | 1443 | 467 | 4553.4 | 511 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 14 | 8378 | 1.832739046 | 1481 | 469 | 4571.3 | 511 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 15 | 8334 | 1.823113775 | 1490 | 469 | 4571.3 | 511 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 16 | 8265 | 1.811348046 | 1478 | 468 | 4562.9 | 511 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 17 | 8170 | 1.79916318 | 1480 | 465 | 4541 | 511 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 18 | 8216 | 1.811287478 | 1478 | 465 | 4536 | 511 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 19 | 8220 | 1.864368337 | 1432 | 452 | 4409 | 501 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 20 | 7794 | 1.868034417 | 1293 | 428 | 4172.3 | 473 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 21 | 6372 | 1.841724955 | 861 | 355 | 3459.8 | 389 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 22 | 4880 | 1.800937373 | 493 | 278 | 2709.7 | 292 |
| FL | Crystal River | 2 | 2013 | 10/3/2013 | 23 | 3037 | 1.746606855 | 394 | 178 | 1738.8 | 164 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 0 | 2373 | 1.727577169 | 489 | 140 | 1373.6 | 119 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 1 | 2406 | 1.739067582 | 489 | 142 | 1383.5 | 119 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 2 | 2417 | 1.766554597 | 502 | 140 | 1368.2 | 119 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 3 | 2429 | 1.757597685 | 497 | 141 | 1382 | 119 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 4 | 2406 | 1.774990778 | 478 | 139 | 1355.5 | 119 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 5 | 3232 | 1.805284031 | 447 | 183 | 1790.3 | 179 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 6 | 5151 | 1.816931217 | 575 | 290 | 2835 | 303 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 7 | 5662 | 1.793134026 | 622 | 324 | 3157.6 | 349 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 8 | 6429 | 1.781626715 | 851 | 370 | 3608.5 | 406 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 9 | 7274 | 1.780922535 | 1245 | 419 | 4084.4 | 460 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 10 | 7600 | 1.819357001 | 1269 | 428 | 4177.3 | 472 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 11 | 7822 | 1.830906793 | 1328 | 438 | 4272.2 | 484 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 12 | 8423 | 1.834956321 | 1487 | 471 | 4590.3 | 515 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 13 | 8306 | 1.816035158 | 1477 | 469 | 4573.7 | 513 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 14 | 8372 | 1.844337233 | 1457 | 465 | 4539.3 | 512 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 15 | 8363 | 1.839194212 | 1459 | 466 | 4547.1 | 512 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 16 | 8210 | 1.811602198 | 1468 | 465 | 4531.9 | 512 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 17 | 7818 | 1.773673942 | 1401 | 452 | 4407.8 | 498 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 18 | 7521 | 1.752044168 | 1382 | 440 | 4292.7 | 488 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 19 | 7121 | 1.693862988 | 1362 | 431 | 4204 | 478 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 20 | 5831 | 1.585717394 | 1014 | 377 | 3677.2 | 414 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 21 | 5406 | 1.539556872 | 884 | 360 | 3511.4 | 393 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 22 | 5025 | 1.541316484 | 769 | 334 | 3260.2 | 363 |
| FL | Crystal River | 2 | 2013 | 10/4/2013 | 23 | 3084 | 1.528473014 | 351 | 207 | 2017.7 | 201 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 0 | 2145 | 1.558866279 | 506 | 141 | 1376 | 123 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 1 | 2159 | 1.601394452 | 524 | 138 | 1348.2 | 120 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 2 | 2136 | 1.580934054 | 520 | 138 | 1351.1 | 120 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 3 | 2126 | 1.56300544 | 516 | 139 | 1360.2 | 120 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 4 | 2091 | 1.552223294 | 502 | 138 | 1347.1 | 120 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 5 | 2119 | 1.573008685 | 501 | 138 | 1347.1 | 120 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 6 | 2112 | 1.588686626 | 471 | 136 | 1329.4 | 120 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 7 | 2982 | 1.628529299 | 413 | 187 | 1831.1 | 175 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 8 | 5080 | 1.679783083 | 620 | 310 | 3024.2 | 321 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 9 | 6452 | 1.689801477 | 1130 | 391 | 3818.2 | 427 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 10 | 6905 | 1.689048702 | 1295 | 419 | 4088.1 | 458 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 11 | 7646 | 1.6999044 | 1538 | 461 | 4497.9 | 506 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 12 | 7574 | 1.653242529 | 1571 | 470 | 4581.3 | 512 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 13 | 7422 | 1.617099157 | 1569 | 470 | 4589.7 | 512 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 14 | 7373 | 1.614938123 | 1570 | 468 | 4565.5 | 512 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 15 | 7389 | 1.60766737 | 1608 | 471 | 4596.1 | 512 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 16 | 7211 | 1.572188549 | 1609 | 470 | 4586.6 | 512 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 17 | 6959 | 1.525527764 | 1637 | 468 | 4561.7 | 511 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 18 | 6756 | 1.517145359 | 1576 | 456 | 4453.1 | 502 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 19 | 6251 | 1.524002243 | 1361 | 420 | 4101.7 | 464 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 20 | 5411 | 1.535296788 | 926 | 361 | 3524.4 | 394 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 21 | 5123 | 1.581026448 | 661 | 332 | 3240.3 | 362 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 22 | 4326 | 1.552931041 | 520 | 285 | 2785.7 | 301 |
| FL | Crystal River | 2 | 2013 | 10/5/2013 | 23 | 2456 | 1.526888405 | 381 | 165 | 1608.5 | 153 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 0 | 2109 | 1.496593812 | 463 | 144 | 1409.2 | 124 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 1 | 2044 | 1.483093891 | 498 | 141 | 1378.2 | 120 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 2 | 2033 | 1.4794062 | 500 | 141 | 1374.2 | 120 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 3 | 1988 | 1.456730417 | 502 | 140 | 1364.7 | 120 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 4 | 1939 | 1.430468462 | 466 | 139 | 1355.5 | 120 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 5 | 1923 | 1.414906924 | 467 | 139 | 1359.1 | 120 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 6 | 1881 | 1.399033098 | 431 | 137 | 1344.5 | 120 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 7 | 2306 | 1.411779111 | 388 | 167 | 1633.4 | 151 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 8 | 4412 | 1.468610612 | 648 | 308 | 3004.2 | 316 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 9 | 5635 | 1.482465602 | 1235 | 390 | 3801.1 | 420 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 10 | 6010 | 1.497968645 | 1243 | 411 | 4012.1 | 445 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 11 | 6927 | 1.520980173 | 1594 | 467 | 4554.3 | 506 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 12 | 6900 | 1.521734336 | 1582 | 465 | 4534.3 | 506 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 13 | 6908 | 1.508955876 | 1584 | 469 | 4578 | 506 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 14 | 6939 | 1.511731771 | 1592 | 470 | 4590.1 | 506 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 15 | 7069 | 1.565427287 | 1557 | 463 | 4515.7 | 502 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 16 | 7112 | 1.640107926 | 1439 | 444 | 4336.3 | 481 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 17 | 6892 | 1.710301015 | 1257 | 413 | 4029.7 | 448 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 18 | 6296 | 1.760134191 | 922 | 367 | 3577 | 397 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 19 | 6355 | 1.793778932 | 907 | 363 | 3542.8 | 394 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 20 | 5411 | 1.796361463 | 590 | 309 | 3012.2 | 329 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 21 | 3033 | 1.749336717 | 322 | 177 | 1733.8 | 166 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 22 | 2686 | 1.702586207 | 383 | 161 | 1577.6 | 143 |
| FL | Crystal River | 2 | 2013 | 10/6/2013 | 23 | 2299 | 1.674923503 | 480 | 140 | 1372.6 | 122 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 0 | 2247 | 1.653664999 | 478 | 139 | 1358.8 | 120 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 1 | 2242 | 1.646108664 | 476 | 139 | 1362 | 120 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 2 | 2249 | 1.663707649 | 475 | 138 | 1351.8 | 120 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 3 | 2268 | 1.670964415 | 483 | 139 | 1357.3 | 120 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 4 | 2625 | 1.715237846 | 434 | 157 | 1530.4 | 140 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 5 | 3837 | 1.761384502 | 394 | 223 | 2178.4 | 217 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 6 | 4980 | 1.79569466 | 563 | 284 | 2773.3 | 300 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 7 | 6110 | 1.804595664 | 748 | 347 | 3385.8 | 379 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 8 | 6715 | 1.781876078 | 1115 | 386 | 3768.5 | 424 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 9 | 6967 | 1.786868428 | 1232 | 400 | 3899 | 441 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 10 | 6928 | 1.781114225 | 1170 | 399 | 3889.7 | 439 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 11 | 7759 | 1.794278843 | 1435 | 443 | 4324.3 | 490 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 12 | 7862 | 1.810769727 | 1463 | 445 | 4341.8 | 492 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 13 | 7887 | 1.852539108 | 1404 | 436 | 4257.4 | 486 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 14 | 8158 | 1.896371371 | 1428 | 441 | 4301.9 | 485 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 15 | 8445 | 1.962173842 | 1420 | 441 | 4303.9 | 485 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 16 | 8613 | 1.999860685 | 1421 | 441 | 4306.8 | 485 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 17 | 7935 | 2.053784036 | 1193 | 396 | 3863.6 | 436 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 18 | 8589 | 2.071135761 | 1298 | 425 | 4147 | 465 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 19 | 8264 | 2.080930678 | 1258 | 407 | 3971.3 | 448 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 20 | 7053 | 2.04422932 | 883 | 354 | 3450.2 | 388 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 21 | 5773 | 1.982826722 | 564 | 298 | 2911.5 | 318 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 22 | 3924 | 1.872137405 | 358 | 215 | 2096 | 212 |
| FL | Crystal River | 2 | 2013 | 10/7/2013 | 23 | 2461 | 1.73799435 | 451 | 145 | 1416 | 129 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 0 | 2285 | 1.682745416 | 487 | 139 | 1357.9 | 120 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 1 | 2247 | 1.645912687 | 495 | 140 | 1365.2 | 120 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 2 | 2222 | 1.629988263 | 492 | 139 | 1363.2 | 120 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 3 | 2208 | 1.628919218 | 490 | 139 | 1355.5 | 120 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 4 | 2211 | 1.60952173 | 457 | 140 | 1373.7 | 122 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 5 | 3327 | 1.630163163 | 377 | 209 | 2040.9 | 203 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 6 | 2897 | 1.584532079 | 407 | 187 | 1828.3 | 187 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 7 | 2311 | 1.562225377 | 412 | 151 | 1479.3 | 133 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 8 | 2587 | 1.576669917 | 421 | 168 | 1640.8 | 151 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 9 | 4193 | 1.633869774 | 456 | 263 | 2566.3 | 263 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 10 | 6044 | 1.722378958 | 986 | 360 | 3509.1 | 389 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 11 | 7091 | 1.687810916 | 1331 | 431 | 4201.3 | 472 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 12 | 7433 | 1.673985992 | 1452 | 455 | 4440.3 | 498 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 13 | 7498 | 1.673922265 | 1460 | 459 | 4479.3 | 501 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 14 | 7548 | 1.683205852 | 1452 | 460 | 4484.3 | 502 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 15 | 7568 | 1.687402453 | 1448 | 460 | 4485 | 501 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 16 | 7190 | 1.683801316 | 1357 | 438 | 4270.1 | 481 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 17 | 6618 | 1.691934041 | 1110 | 401 | 3911.5 | 438 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 18 | 6681 | 1.690151534 | 1083 | 405 | 3952.9 | 443 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 19 | 6451 | 1.668347687 | 1078 | 396 | 3866.7 | 438 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 20 | 5591 | 1.60306219 | 816 | 357 | 3487.7 | 394 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 21 | 4843 | 1.536387285 | 643 | 323 | 3152.2 | 352 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 22 | 3493 | 1.479332543 | 441 | 242 | 2361.2 | 251 |
| FL | Crystal River | 2 | 2013 | 10/8/2013 | 23 | 1849 | 1.368717152 | 366 | 138 | 1350.9 | 122 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 0 | 1828 | 1.355278766 | 387 | 138 | 1348.8 | 121 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 1 | 1846 | 1.36447631 | 466 | 138 | 1352.9 | 121 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 2 | 1868 | 1.375653583 | 468 | 139 | 1357.9 | 121 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 3 | 1889 | 1.387032822 | 478 | 139 | 1361.9 | 121 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 4 | 1880 | 1.390224063 | 476 | 138 | 1352.3 | 121 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 5 | 1981 | 1.402180068 | 418 | 145 | 1412.8 | 128 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 6 | 1873 | 1.420015163 | 447 | 135 | 1319 | 120 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 7 | 1895 | 1.410915047 | 441 | 137 | 1343.1 | 120 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 8 | 1915 | 1.437040372 | 454 | 136 | 1332.6 | 120 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 9 | 1937 | 1.437263486 | 451 | 138 | 1347.7 | 120 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 10 | 1944 | 1.440426793 | 450 | 138 | 1349.6 | 120 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 11 | 1946 | 1.432040621 | 444 | 139 | 1358.9 | 120 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 12 | 1946 | 1.418677553 | 444 | 140 | 1371.7 | 120 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 13 | 1964 | 1.418357767 | 433 | 142 | 1384.7 | 124 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 14 | 3060 | 1.44530512 | 372 | 217 | 2117.2 | 205 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 15 | 3685 | 1.474648845 | 447 | 256 | 2498.9 | 255 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 16 | 2834 | 1.450506705 | 328 | 200 | 1953.8 | 191 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 17 | 2462 | 1.451565356 | 388 | 174 | 1696.1 | 161 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 18 | 3444 | 1.487046632 | 347 | 237 | 2316 | 231 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 19 | 3612 | 1.551613042 | 344 | 238 | 2327.9 | 234 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 20 | 3189 | 1.563771883 | 303 | 209 | 2039.3 | 203 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 21 | 2336 | 1.548250265 | 386 | 154 | 1508.8 | 142 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 22 | 2038 | 1.510748703 | 465 | 138 | 1349 | 122 |
| FL | Crystal River | 2 | 2013 | 10/9/2013 | 23 | 1976 | 1.472758441 | 465 | 137 | 1341.7 | 121 |
| FL | Crystal River | 2 | 2013 | 10/10/2013 | 0 | 1906 | 1.421221385 | 453 | 137 | 1341.1 | 120 |
| FL | Crystal River | 2 | 2013 | 10/10/2013 | 1 | 1845 | 1.366261848 | 469 | 138 | 1350.4 | 119 |
| FL | Crystal River | 2 | 2013 | 10/10/2013 | 2 | 1762 | 1.304219097 | 470 | 138 | 1351 | 119 |
| FL | Crystal River | 2 | 2013 | 10/10/2013 | 3 | 1700 | 1.260659993 | 443 | 138 | 1348.5 | 119 |
| FL | Crystal River | 2 | 2013 | 10/10/2013 | 4 | 1644 | 1.21886121 | 442 | 138 | 1348.8 | 120 |
| FL | Crystal River | 2 | 2013 | 10/10/2013 | 5 | 1766 | 1.192598595 | 438 | 151 | 1480.8 | 139 |
| FL | Crystal River | 2 | 2013 | 10/10/2013 | 6 | 2803 | 1.22252268 | 431 | 235 | 2292.8 | 228 |
| FL | Crystal River | 2 | 2013 | 10/10/2013 | 7 | 1826 | 1.133246447 | 417 | 165 | 1611.3 | 155 |
| FL | Crystal River | 2 | 2013 | 10/10/2013 | 8 | 1989 | 1.096169744 | 299 | 186 | 1814.5 | 174 |
| FL | Crystal River | 2 | 2013 | 10/10/2013 | 9 | 3197 | 1.15252893 | 474 | 284 | 2773.9 | 286 |
| FL | Crystal River | 2 | 2013 | 10/10/2013 | 10 | 3881 | 1.207116419 | 601 | 329 | 3215.1 | 351 |
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| FL | Crystal River | 2 | 2013 | 11/2/2013 | 8 | 3013 | 1.527890467 | 345 | 202 | 1972 | 186 |
| FL | Crystal River | 2 | 2013 | 11/2/2013 | 9 | 3295 | 1.552268337 | 320 | 217 | 2122.7 | 207 |
| FL | Crystal River | 2 | 2013 | 11/2/2013 | 10 | 3411 | 1.565325134 | 322 | 223 | 2179.1 | 213 |
| FL | Crystal River | 2 | 2013 | 11/2/2013 | 11 | 3690 | 1.540066778 | 433 | 245 | 2396 | 236 |
| FL | Crystal River | 2 | 2013 | 11/2/2013 | 12 | 3747 | 1.517618469 | 424 | 253 | 2469 | 252 |
| FL | Crystal River | 2 | 2013 | 11/2/2013 | 13 | 3595 | 1.528291459 | 479 | 241 | 2352.3 | 239 |
| FL | Crystal River | 2 | 2013 | 11/2/2013 | 14 | 4072 | 1.575729433 | 493 | 265 | 2584.2 | 264 |
| FL | Crystal River | 2 | 2013 | 11/2/2013 | 15 | 4466 | 1.630998466 | 443 | 280 | 2738.2 | 280 |
| FL | Crystal River | 2 | 2013 | 11/2/2013 | 16 | 4741 | 1.653356582 | 493 | 294 | 2867.5 | 300 |
| FL | Crystal River | 2 | 2013 | 11/2/2013 | 17 | 4934 | 1.642476698 | 537 | 308 | 3004 | 318 |
| FL | Crystal River | 2 | 2013 | 11/2/2013 | 18 | 5118 | 1.642595802 | 585 | 319 | 3115.8 | 336 |
| FL | Crystal River | 2 | 2013 | 11/2/2013 | 19 | 5380 | 1.666666667 | 642 | 331 | 3228 | 353 |
| FL | Crystal River | 2 | 2013 | 11/2/2013 | 20 | 5777 | 1.714904859 | 683 | 345 | 3368.7 | 374 |
| FL | Crystal River | 2 | 2013 | 11/2/2013 | 21 | 6280 | 1.722152142 | 773 | 374 | 3646.6 | 405 |
| FL | Crystal River | 2 | 2013 | 11/2/2013 | 22 | 5610 | 1.727535875 | 737 | 333 | 3247.4 | 357 |
| FL | Crystal River | 2 | 2013 | 11/2/2013 | 23 | 2467 | 1.747662227 | 518 | 144 | 1411.6 | 138 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 0 | 2236 | 1.729445433 | 611 | 132 | 1292.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 1 | 2219 | 1.728058562 | 599 | 131 | 1284.1 | 119 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 2 | 2215 | 1.728847955 | 611 | 131 | 1281.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 3 | 2193 | 1.712746017 | 599 | 131 | 1280.4 | 119 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 4 | 2180 | 1.721686937 | 583 | 129 | 1266.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 5 | 2205 | 1.722118088 | 585 | 131 | 1280.4 | 119 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 6 | 2203 | 1.747580517 | 554 | 129 | 1260.6 | 119 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 7 | 2417 | 1.746008813 | 476 | 142 | 1384.3 | 135 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 8 | 3347 | 1.762228189 | 298 | 194 | 1899.3 | 192 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 9 | 4358 | 1.778194875 | 362 | 251 | 2450.8 | 251 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 10 | 5202 | 1.764705882 | 507 | 302 | 2947.8 | 312 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 11 | 5844 | 1.753217532 | 666 | 342 | 3333.3 | 366 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 12 | 6785 | 1.774969916 | 906 | 392 | 3822.6 | 425 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 13 | 7081 | 1.778341454 | 983 | 408 | 3981.8 | 446 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 14 | 7291 | 1.77051967 | 1107 | 422 | 4118 | 458 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 15 | 7493 | 1.782901468 | 1231 | 431 | 4202.7 | 469 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 16 | 7730 | 1.784559978 | 1260 | 444 | 4331.6 | 484 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 17 | 7849 | 1.785121335 | 1301 | 451 | 4396.9 | 492 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 18 | 7963 | 1.798572526 | 1306 | 454 | 4427.4 | 495 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 19 | 7931 | 1.791911432 | 1310 | 454 | 4426 | 495 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 20 | 7938 | 1.792237701 | 1306 | 454 | 4429.1 | 495 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 21 | 7154 | 1.788365873 | 1068 | 410 | 4000.3 | 452 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 22 | 5044 | 1.782395138 | 563 | 290 | 2829.9 | 315 |
| FL | Crystal River | 2 | 2013 | 11/3/2013 | 23 | 2371 | 1.75097851 | 585 | 138 | 1354.1 | 131 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 0 | 2215 | 1.744231829 | 603 | 130 | 1269.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 1 | 2234 | 1.754909662 | 604 | 130 | 1273 | 119 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 2 | 2255 | 1.771127867 | 607 | 130 | 1273.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 3 | 2254 | 1.769369652 | 591 | 130 | 1273.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 4 | 2260 | 1.765073415 | 573 | 131 | 1280.4 | 119 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 5 | 2262 | 1.754984871 | 560 | 132 | 1288.9 | 120 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 6 | 5030 | 1.810981098 | 527 | 285 | 2777.5 | 291 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 7 | 7904 | 1.838438816 | 1444 | 441 | 4299.3 | 472 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 8 | 7873 | 1.845609264 | 1441 | 437 | 4265.8 | 475 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 9 | 7798 | 1.836465546 | 1511 | 435 | 4246.2 | 476 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 10 | 7775 | 1.822678576 | 1493 | 437 | 4265.7 | 476 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 11 | 7708 | 1.817924528 | 1509 | 435 | 4240 | 476 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 12 | 7588 | 1.776716306 | 1511 | 438 | 4270.8 | 476 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 13 | 7419 | 1.752202357 | 1515 | 434 | 4234.1 | 476 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 14 | 7348 | 1.728249877 | 1539 | 436 | 4251.7 | 476 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 15 | 7341 | 1.713665437 | 1542 | 439 | 4283.8 | 476 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 16 | 5402 | 1.650977995 | 808 | 335 | 3272 | 362 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 17 | 3525 | 1.4688112 | 388 | 246 | 2399.9 | 247 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 18 | 4235 | 1.258730866 | 595 | 345 | 3364.5 | 368 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 19 | 2982 | 1.071274608 | 420 | 285 | 2783.6 | 298 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 20 | 1374 | 0.927438407 | 445 | 152 | 1481.5 | 144 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 21 | 1086 | 0.836092078 | 601 | 133 | 1298.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 22 | 1019 | 0.778932885 | 613 | 134 | 1308.2 | 119 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|---------|-----|
| FL | Crystal River | 2 | 2013 | 11/4/2013 | 23 | 965 | 0.735350149 | 628 | 134 | 1312.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 0 | 932 | 0.711287491 | 635 | 134 | 1310.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 1 | 905 | 0.690839695 | 627 | 134 | 1310 | 119 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 2 | 899 | 0.684222544 | 624 | 134 | 1313.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 3 | 894 | 0.675736961 | 624 | 135 | 1323 | 119 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 4 | 885 | 0.678576905 | 614 | 133 | 1304.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 5 | 889 | 0.677953176 | 613 | 134 | 1311.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 6 | 954 | 0.680699251 | 512 | 143 | 1401.5 | 127 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 7 | 992 | 0.684137931 | 462 | 148 | 1450 | 136 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 8 | 1573 | 0.739400207 | 476 | 218 | 2127.4 | 214 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 9 | 3242 | 0.961105182 | 718 | 346 | 3373.2 | 361 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 10 | 2898 | 0.869408694 | 863 | 342 | 3333.3 | 362 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 11 | 2742 | 0.8153192 | 800 | 345 | 3363.1 | 362 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 12 | 2598 | 0.761586492 | 805 | 350 | 3411.3 | 362 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 13 | 2465 | 0.717174362 | 759 | 352 | 3437.1 | 362 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 14 | 2384 | 0.697402293 | 717 | 350 | 3418.4 | 362 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 15 | 2183 | 0.691764109 | 631 | 323 | 3155.7 | 330 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 16 | 1550 | 0.687391902 | 525 | 231 | 2254.9 | 223 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 17 | 294 | 0.6575416 | 181 | 45 | 447.12 | 84 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 18 | 75 | 0.331182853 | 28 | 23 | 226.461 | 13 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 19 | 172 | 0.379690949 | 148 | 46 | 453 | 22 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 20 | 460 | 0.533494155 | 461 | 88 | 862.24 | 70 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 21 | 18 | 0.186480186 | 7 | 9 | 96.525 | 0 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 22 | 194 | 0.405010438 | 148 | 49 | 479 | 17 |
| FL | Crystal River | 2 | 2013 | 11/5/2013 | 23 | 557 | 0.544743276 | 591 | 104 | 1022.5 | 75 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 0 | 892 | 0.618156618 | 647 | 148 | 1443 | 114 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 1 | 955 | 0.672629948 | 738 | 145 | 1419.8 | 110 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 2 | 953 | 0.675311791 | 626 | 144 | 1411.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 3 | 955 | 0.680781295 | 613 | 143 | 1402.8 | 119 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 4 | 960 | 0.684491979 | 591 | 143 | 1402.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 5 | 982 | 0.697195598 | 594 | 144 | 1408.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 6 | 979 | 0.696103527 | 585 | 144 | 1406.4 | 119 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 7 | 1009 | 0.717128643 | 572 | 144 | 1407 | 119 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 8 | 1704 | 0.731236322 | 431 | 239 | 2330.3 | 214 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 9 | 2192 | 0.729305297 | 658 | 308 | 3005.6 | 297 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 10 | 2369 | 0.715601873 | 771 | 339 | 3310.5 | 342 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 11 | 2473 | 0.719250793 | 739 | 352 | 3438.3 | 362 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 12 | 2459 | 0.716053697 | 728 | 352 | 3434.1 | 362 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 13 | 2467 | 0.715342013 | 731 | 353 | 3448.7 | 362 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 14 | 2483 | 0.720252944 | 730 | 353 | 3447.4 | 362 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 15 | 2488 | 0.721096716 | 734 | 354 | 3450.3 | 362 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 16 | 2505 | 0.724197745 | 750 | 354 | 3459 | 363 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 17 | 2474 | 0.721030543 | 737 | 352 | 3431.2 | 362 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 18 | 2439 | 0.71766956 | 710 | 348 | 3398.5 | 361 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 19 | 2310 | 0.718082626 | 662 | 330 | 3216.9 | 337 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 20 | 2439 | 0.722067618 | 699 | 346 | 3377.8 | 357 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 21 | 2379 | 0.737445753 | 664 | 331 | 3226 | 340 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 22 | 1500 | 0.730175729 | 554 | 210 | 2054.3 | 201 |
| FL | Crystal River | 2 | 2013 | 11/6/2013 | 23 | 1038 | 0.738212076 | 497 | 144 | 1406.1 | 124 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 0 | 1041 | 0.730116426 | 504 | 146 | 1425.8 | 124 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 1 | 1047 | 0.741238938 | 514 | 144 | 1412.5 | 124 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 2 | 1093 | 0.7668561 | 501 | 146 | 1425.3 | 124 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 3 | 1052 | 0.741106023 | 519 | 145 | 1419.5 | 124 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 4 | 1045 | 0.732408186 | 507 | 146 | 1426.8 | 124 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 5 | 1070 | 0.74898502 | 507 | 146 | 1428.6 | 124 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 6 | 1121 | 0.746288529 | 431 | 154 | 1502.1 | 132 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 7 | 1555 | 0.759499853 | 421 | 210 | 2047.4 | 192 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 8 | 2561 | 0.745191608 | 800 | 352 | 3436.7 | 358 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 9 | 2587 | 0.743006491 | 769 | 357 | 3481.8 | 370 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 10 | 2883 | 0.757348885 | 947 | 390 | 3806.7 | 405 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 11 | 3173 | 0.771888 | 1122 | 421 | 4110.7 | 436 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 12 | 3203 | 0.779110214 | 1134 | 421 | 4111.1 | 437 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 13 | 3197 | 0.783597637 | 1130 | 418 | 4079.9 | 436 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 14 | 3197 | 0.771253498 | 1131 | 425 | 4145.2 | 437 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 15 | 3066 | 0.762421047 | 1077 | 412 | 4021.4 | 427 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 16 | 2546 | 0.779594586 | 653 | 335 | 3265.8 | 344 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 17 | 2770 | 0.947688939 | 584 | 299 | 2922.9 | 298 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 18 | 3673 | 1.090234491 | 879 | 345 | 3369 | 357 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 19 | 3302 | 1.195294118 | 599 | 283 | 2762.5 | 282 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 20 | 2348 | 1.183646721 | 378 | 203 | 1983.7 | 192 |

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|----|---------------|---|------|-----------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 21 | 1593 | 1.173653577 | 552 | 139 | 1357.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 22 | 1661 | 1.183554225 | 530 | 144 | 1403.4 | 122 |
| FL | Crystal River | 2 | 2013 | 11/7/2013 | 23 | 1661 | 1.204758105 | 557 | 141 | 1378.7 | 120 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 0 | 1733 | 1.259356151 | 564 | 141 | 1376.1 | 120 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 1 | 1844 | 1.340018894 | 567 | 141 | 1376.1 | 119 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 2 | 1928 | 1.410800527 | 558 | 140 | 1366.6 | 119 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 3 | 1996 | 1.472845336 | 565 | 139 | 1355.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 4 | 2020 | 1.511976048 | 543 | 137 | 1336 | 119 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 5 | 2031 | 1.518618214 | 556 | 137 | 1337.4 | 120 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 6 | 2091 | 1.547627859 | 547 | 138 | 1351.1 | 122 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 7 | 2186 | 1.56904967 | 522 | 142 | 1393.2 | 127 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 8 | 3931 | 1.577447833 | 543 | 255 | 2492 | 249 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 9 | 5753 | 1.487639636 | 1078 | 396 | 3867.2 | 408 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 10 | 6672 | 1.487758106 | 1713 | 460 | 4484.6 | 485 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 11 | 6758 | 1.484980993 | 1738 | 466 | 4550.9 | 486 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 12 | 6965 | 1.525605642 | 1762 | 468 | 4565.4 | 486 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 13 | 7065 | 1.567526791 | 1505 | 462 | 4507.1 | 481 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 14 | 7146 | 1.610366197 | 1690 | 455 | 4437.5 | 474 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 15 | 6739 | 1.623698921 | 1477 | 425 | 4150.4 | 445 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 16 | 5158 | 1.647081364 | 792 | 321 | 3131.6 | 328 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 17 | 2788 | 1.654894046 | 527 | 172 | 1684.7 | 162 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 18 | 2211 | 1.640938103 | 595 | 138 | 1347.4 | 120 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 19 | 2210 | 1.646305125 | 606 | 137 | 1342.4 | 119 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 20 | 2184 | 1.632897196 | 600 | 137 | 1337.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 21 | 2166 | 1.620893512 | 590 | 137 | 1336.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 22 | 2152 | 1.612226551 | 574 | 137 | 1334.8 | 119 |
| FL | Crystal River | 2 | 2013 | 11/8/2013 | 23 | 2148 | 1.593826519 | 568 | 138 | 1347.7 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 0 | 2152 | 1.600952239 | 568 | 137 | 1344.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 1 | 2151 | 1.604984331 | 566 | 137 | 1340.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 2 | 2159 | 1.609872493 | 565 | 137 | 1341.1 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 3 | 2177 | 1.620273891 | 563 | 137 | 1343.6 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 4 | 2177 | 1.629491018 | 550 | 137 | 1336 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 5 | 2196 | 1.621262458 | 559 | 139 | 1354.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 6 | 2178 | 1.633663366 | 547 | 136 | 1333.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 7 | 2204 | 1.624290663 | 549 | 139 | 1356.9 | 119 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 8 | 2193 | 1.624564783 | 549 | 138 | 1349.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 9 | 2187 | 1.61402214 | 544 | 139 | 1355 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 10 | 2210 | 1.612785521 | 550 | 140 | 1370.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 11 | 2313 | 1.615110677 | 521 | 146 | 1432.1 | 126 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 12 | 2350 | 1.600926494 | 525 | 150 | 1467.9 | 129 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 13 | 2215 | 1.589408726 | 549 | 143 | 1393.6 | 120 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 14 | 2344 | 1.592824137 | 515 | 151 | 1471.6 | 129 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 15 | 2212 | 1.587256028 | 518 | 143 | 1393.6 | 123 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 16 | 2163 | 1.572176188 | 543 | 141 | 1375.8 | 120 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 17 | 2281 | 1.580406014 | 512 | 148 | 1443.3 | 129 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 18 | 2369 | 1.592926304 | 487 | 152 | 1487.2 | 134 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 19 | 2211 | 1.581658202 | 534 | 143 | 1397.9 | 123 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 20 | 2198 | 1.583117257 | 519 | 142 | 1388.4 | 123 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 21 | 2134 | 1.573862379 | 543 | 139 | 1355.9 | 120 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 22 | 2125 | 1.558603491 | 529 | 139 | 1363.4 | 120 |
| FL | Crystal River | 2 | 2013 | 11/9/2013 | 23 | 2100 | 1.557516873 | 523 | 138 | 1348.3 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 0 | 2076 | 1.547982999 | 516 | 137 | 1341.1 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 1 | 2056 | 1.54111386 | 523 | 136 | 1334.1 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 2 | 2044 | 1.524804178 | 508 | 137 | 1340.5 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 3 | 2044 | 1.530169187 | 526 | 137 | 1335.8 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 4 | 2036 | 1.542190577 | 510 | 135 | 1320.2 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 5 | 2041 | 1.525297063 | 515 | 137 | 1338.1 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 6 | 2034 | 1.529323308 | 482 | 136 | 1330 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 7 | 2051 | 1.534720144 | 518 | 137 | 1336.4 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 8 | 2057 | 1.544294294 | 516 | 136 | 1332 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 9 | 2064 | 1.508992543 | 448 | 140 | 1367.8 | 120 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 10 | 2231 | 1.504078743 | 740 | 152 | 1483.3 | 133 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 11 | 2210 | 1.527086788 | 534 | 148 | 1447.2 | 130 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 12 | 3605 | 1.557302691 | 618 | 237 | 2314.9 | 220 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 13 | 6291 | 1.604396725 | 1415 | 402 | 3921.1 | 414 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 14 | 7474 | 1.625913679 | 1898 | 471 | 4596.8 | 491 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 15 | 7515 | 1.637897215 | 1867 | 470 | 4588.2 | 491 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 16 | 7209 | 1.642964584 | 1698 | 450 | 4387.8 | 471 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 17 | 6032 | 1.642477876 | 1197 | 376 | 3672.5 | 395 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 18 | 7100 | 1.653855113 | 1614 | 440 | 4293 | 461 |

| | | | | | | | | | | | |
|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 19 | 6184 | 1.626940279 | 1277 | 390 | 3801 | 410 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 20 | 4187 | 1.528436884 | 643 | 281 | 2739.4 | 283 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 21 | 1913 | 1.342738822 | 514 | 146 | 1424.7 | 131 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 22 | 1597 | 1.179903953 | 561 | 138 | 1353.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/10/2013 | 23 | 1382 | 1.024082994 | 553 | 138 | 1349.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 0 | 1196 | 0.885925926 | 557 | 138 | 1350 | 119 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 1 | 1066 | 0.787762341 | 542 | 138 | 1353.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 2 | 978 | 0.718853363 | 544 | 139 | 1360.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 3 | 958 | 0.706333407 | 549 | 139 | 1356.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 4 | 945 | 0.704435334 | 536 | 137 | 1341.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 5 | 935 | 0.69218241 | 540 | 138 | 1350.8 | 119 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 6 | 918 | 0.686920084 | 541 | 137 | 1336.4 | 120 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 7 | 961 | 0.675523689 | 513 | 146 | 1422.6 | 128 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 8 | 3031 | 0.933850941 | 785 | 333 | 3245.7 | 324 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 9 | 4398 | 0.976790672 | 1652 | 462 | 4502.5 | 474 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 10 | 3806 | 0.842147188 | 1532 | 463 | 4519.4 | 476 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 11 | 3327 | 0.741012963 | 1405 | 460 | 4489.8 | 476 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 12 | 3126 | 0.689077483 | 1433 | 465 | 4536.5 | 476 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 13 | 3079 | 0.677313623 | 1400 | 466 | 4545.9 | 476 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 14 | 3078 | 0.673788363 | 1411 | 468 | 4568.2 | 476 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 15 | 3063 | 0.66814999 | 1311 | 470 | 4584.3 | 476 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 16 | 2923 | 0.666271569 | 1162 | 450 | 4387.1 | 457 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 17 | 2446 | 0.663070292 | 800 | 378 | 3688.9 | 387 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 18 | 2795 | 0.66569809 | 1003 | 430 | 4198.6 | 442 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 19 | 2532 | 0.660717082 | 866 | 393 | 3832.2 | 406 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 20 | 2075 | 0.654863347 | 605 | 325 | 3168.6 | 332 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 21 | 939 | 0.641174462 | 508 | 150 | 1464.5 | 133 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 22 | 876 | 0.641100703 | 522 | 140 | 1366.4 | 119 |
| FL | Crystal River | 2 | 2013 | 11/11/2013 | 23 | 880 | 0.637866048 | 536 | 141 | 1379.6 | 119 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 0 | 881 | 0.639843126 | 549 | 141 | 1376.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 1 | 880 | 0.637727372 | 547 | 141 | 1379.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 2 | 877 | 0.641410078 | 546 | 140 | 1367.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 3 | 880 | 0.640932265 | 545 | 140 | 1373 | 119 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 4 | 881 | 0.640587508 | 541 | 141 | 1375.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 5 | 898 | 0.639646698 | 543 | 144 | 1403.9 | 123 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 6 | 1159 | 0.650137432 | 356 | 182 | 1782.7 | 160 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 7 | 1048 | 0.645518941 | 371 | 166 | 1623.5 | 147 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 8 | 884 | 0.644455785 | 524 | 140 | 1371.7 | 120 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 9 | 1580 | 0.650152251 | 561 | 249 | 2430.2 | 239 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 10 | 2284 | 0.659201108 | 644 | 355 | 3464.8 | 360 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 11 | 2272 | 0.661176265 | 615 | 352 | 3436.3 | 362 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 12 | 2285 | 0.663569043 | 616 | 353 | 3443.5 | 362 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 13 | 2282 | 0.662851831 | 619 | 353 | 3442.7 | 362 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 14 | 2288 | 0.662708182 | 621 | 354 | 3452.5 | 362 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 15 | 2289 | 0.664730652 | 619 | 353 | 3443.5 | 362 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 16 | 2301 | 0.667227281 | 675 | 353 | 3448.6 | 362 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 17 | 2352 | 0.683025991 | 674 | 353 | 3443.5 | 362 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 18 | 2280 | 0.663079831 | 670 | 352 | 3438.5 | 362 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 19 | 1739 | 0.661845861 | 486 | 269 | 2627.5 | 270 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 20 | 873 | 0.649940441 | 556 | 137 | 1343.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 21 | 885 | 0.645137775 | 566 | 140 | 1371.8 | 119 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 22 | 886 | 0.650084379 | 586 | 139 | 1362.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/12/2013 | 23 | 883 | 0.648644678 | 589 | 139 | 1361.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 0 | 878 | 0.644261814 | 576 | 139 | 1362.8 | 119 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 1 | 873 | 0.646140182 | 572 | 138 | 1351.1 | 119 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 2 | 867 | 0.640845591 | 573 | 138 | 1352.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 3 | 867 | 0.644657595 | 578 | 138 | 1344.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 4 | 857 | 0.643780048 | 573 | 136 | 1331.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 5 | 859 | 0.645282452 | 576 | 136 | 1331.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 6 | 852 | 0.642146518 | 570 | 136 | 1326.8 | 119 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 7 | 856 | 0.639856481 | 567 | 137 | 1337.8 | 119 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 8 | 1101 | 0.643257771 | 482 | 175 | 1711.6 | 161 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 9 | 1941 | 0.65490249 | 497 | 304 | 2963.8 | 304 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 10 | 2672 | 0.659004587 | 875 | 416 | 4054.6 | 428 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 11 | 2708 | 0.66060059 | 897 | 420 | 4099.3 | 436 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 12 | 2660 | 0.660754651 | 853 | 413 | 4025.7 | 431 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 13 | 1702 | 0.649667914 | 579 | 268 | 2619.8 | 256 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 14 | 1413 | 0.647778847 | 340 | 223 | 2181.3 | 180 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 15 | 1097 | 0.645635925 | 416 | 174 | 1699.1 | 149 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 16 | 1039 | 0.648928861 | 497 | 164 | 1601.1 | 139 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 17 | 1323 | 0.653172056 | 526 | 207 | 2025.5 | 168 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 18 | 2702 | 0.664960378 | 877 | 416 | 4063.4 | 402 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 19 | 2697 | 0.668998363 | 899 | 413 | 4031.4 | 417 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 20 | 2691 | 0.667510046 | 774 | 413 | 4031.4 | 389 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 21 | 1542 | 0.66015926 | 422 | 239 | 2335.8 | 242 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 22 | 835 | 0.651173672 | 542 | 131 | 1282.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/13/2013 | 23 | 859 | 0.648840547 | 538 | 135 | 1323.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 0 | 861 | 0.650646112 | 541 | 135 | 1323.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 1 | 868 | 0.647761194 | 540 | 137 | 1340 | 119 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 2 | 865 | 0.649204443 | 538 | 136 | 1332.4 | 119 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 3 | 870 | 0.65295707 | 533 | 136 | 1332.4 | 119 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 4 | 861 | 0.654205607 | 527 | 135 | 1316.1 | 119 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 5 | 870 | 0.656306578 | 531 | 136 | 1325.6 | 119 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 6 | 859 | 0.657985446 | 520 | 133 | 1305.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 7 | 865 | 0.652534701 | 522 | 136 | 1325.6 | 121 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 8 | 1709 | 0.656474475 | 468 | 267 | 2603.3 | 257 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 9 | 2518 | 0.658180202 | 914 | 392 | 3825.7 | 402 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 10 | 2696 | 0.659007578 | 969 | 419 | 4091 | 435 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 11 | 2707 | 0.658621445 | 978 | 421 | 4110.1 | 436 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 12 | 2648 | 0.65997059 | 874 | 411 | 4012.3 | 427 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 13 | 2323 | 0.660543676 | 647 | 360 | 3516.8 | 374 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 14 | 2183 | 0.659755803 | 572 | 339 | 3308.8 | 347 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 15 | 2240 | 0.665280665 | 596 | 345 | 3367 | 354 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 16 | 2341 | 0.685063795 | 618 | 350 | 3417.2 | 362 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 17 | 2925 | 0.723687466 | 953 | 414 | 4041.8 | 426 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 18 | 2961 | 0.760088305 | 864 | 399 | 3895.6 | 411 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 19 | 3008 | 0.835927079 | 734 | 369 | 3598.4 | 383 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 20 | 3290 | 0.940752602 | 716 | 358 | 3497.2 | 374 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 21 | 3034 | 1.041144779 | 585 | 299 | 2914.1 | 307 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 22 | 2102 | 1.134866645 | 407 | 190 | 1852.2 | 185 |
| FL | Crystal River | 2 | 2013 | 11/14/2013 | 23 | 1764 | 1.253285968 | 494 | 144 | 1407.5 | 132 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 0 | 1878 | 1.34027976 | 498 | 143 | 1401.2 | 129 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 1 | 1956 | 1.404768745 | 505 | 142 | 1392.4 | 129 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 2 | 2028 | 1.439114391 | 508 | 144 | 1409.2 | 129 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 3 | 2059 | 1.468197376 | 506 | 143 | 1402.4 | 129 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 4 | 2084 | 1.488890477 | 512 | 143 | 1399.7 | 129 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 5 | 2106 | 1.490551348 | 512 | 145 | 1412.9 | 129 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 6 | 2317 | 1.506110244 | 384 | 157 | 1538.4 | 146 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 7 | 2114 | 1.502487562 | 506 | 144 | 1407 | 130 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 8 | 2152 | 1.508693214 | 510 | 146 | 1426.4 | 131 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 9 | 2212 | 1.518083865 | 483 | 149 | 1457.1 | 134 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 10 | 2321 | 1.532923849 | 457 | 155 | 1514.1 | 141 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 11 | 2255 | 1.545685105 | 466 | 149 | 1458.9 | 136 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 12 | 3290 | 1.545253863 | 485 | 218 | 2129.1 | 207 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 13 | 4528 | 1.505068971 | 634 | 308 | 3008.5 | 303 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 14 | 4566 | 1.544916258 | 617 | 303 | 2955.5 | 300 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 15 | 4442 | 1.583092769 | 569 | 287 | 2805.9 | 283 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 16 | 4355 | 1.613022705 | 550 | 277 | 2699.9 | 275 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 17 | 4045 | 1.633155685 | 487 | 254 | 2476.8 | 249 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 18 | 4822 | 1.657329438 | 628 | 298 | 2909.5 | 300 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 19 | 2916 | 1.677501007 | 474 | 178 | 1738.3 | 174 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 20 | 2403 | 1.68513324 | 500 | 146 | 1426 | 133 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 21 | 2378 | 1.682467808 | 521 | 145 | 1413.4 | 129 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 22 | 2469 | 1.696673997 | 494 | 149 | 1455.2 | 133 |
| FL | Crystal River | 2 | 2013 | 11/15/2013 | 23 | 2542 | 1.688812118 | 471 | 154 | 1505.2 | 138 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 0 | 2555 | 1.70083877 | 462 | 154 | 1502.2 | 139 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 1 | 2516 | 1.678228388 | 460 | 153 | 1499.2 | 139 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 2 | 2463 | 1.642109474 | 459 | 153 | 1499.9 | 139 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 3 | 2405 | 1.608157807 | 460 | 153 | 1495.5 | 139 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 4 | 2363 | 1.575753534 | 454 | 153 | 1499.6 | 139 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 5 | 2359 | 1.579088292 | 451 | 153 | 1493.9 | 139 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 6 | 2339 | 1.587053874 | 446 | 151 | 1473.8 | 139 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 7 | 2353 | 1.579512654 | 451 | 152 | 1489.7 | 139 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 8 | 2427 | 1.579666753 | 444 | 157 | 1536.4 | 142 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 9 | 2690 | 1.594168543 | 401 | 173 | 1687.4 | 159 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 10 | 3075 | 1.613495645 | 404 | 195 | 1905.8 | 182 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 11 | 4438 | 1.623797153 | 563 | 280 | 2733.1 | 271 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 12 | 5489 | 1.612277868 | 854 | 349 | 3404.5 | 359 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 13 | 5104 | 1.55424952 | 880 | 336 | 3283.9 | 348 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 14 | 4891 | 1.575962623 | 788 | 318 | 3103.5 | 327 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 15 | 4281 | 1.582449266 | 622 | 277 | 2705.3 | 274 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 16 | 4655 | 1.606501933 | 709 | 297 | 2897.6 | 299 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 17 | 4848 | 1.624066195 | 734 | 306 | 2985.1 | 306 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 18 | 6507 | 1.659187108 | 1337 | 402 | 3921.8 | 420 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 19 | 5542 | 1.666215688 | 947 | 341 | 3326.1 | 354 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 20 | 4958 | 1.691630557 | 685 | 300 | 2930.9 | 305 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 21 | 3587 | 1.698309739 | 443 | 216 | 2112.1 | 211 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 22 | 2587 | 1.713131581 | 445 | 154 | 1510.1 | 140 |
| FL | Crystal River | 2 | 2013 | 11/16/2013 | 23 | 2613 | 1.720550471 | 448 | 155 | 1518.7 | 139 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 0 | 2640 | 1.740276862 | 452 | 155 | 1517 | 139 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 1 | 2672 | 1.766962042 | 450 | 155 | 1512.2 | 139 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 2 | 2691 | 1.775768774 | 450 | 155 | 1515.4 | 139 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 3 | 2708 | 1.788403117 | 445 | 155 | 1514.2 | 138 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 4 | 2677 | 1.780985962 | 438 | 154 | 1503.1 | 138 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 5 | 2668 | 1.7650172 | 438 | 155 | 1511.6 | 138 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 6 | 2613 | 1.72577769 | 430 | 155 | 1514.1 | 138 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 7 | 2804 | 1.741290443 | 425 | 165 | 1610.3 | 148 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 8 | 3878 | 1.756420128 | 437 | 226 | 2207.9 | 212 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 9 | 5322 | 1.744689221 | 658 | 313 | 3050.4 | 310 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 10 | 6988 | 1.755426045 | 1289 | 408 | 3980.8 | 424 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 11 | 7507 | 1.735080664 | 1609 | 443 | 4326.6 | 465 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 12 | 7775 | 1.726090045 | 1738 | 462 | 4504.4 | 484 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 13 | 7486 | 1.737576306 | 1581 | 442 | 4308.3 | 464 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 14 | 7667 | 1.715980304 | 1662 | 458 | 4468 | 478 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 15 | 7718 | 1.715377948 | 1691 | 461 | 4499.3 | 484 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 16 | 7006 | 1.597136735 | 1552 | 450 | 4386.6 | 470 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 17 | 5676 | 1.464698596 | 1166 | 397 | 3875.2 | 413 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 18 | 6207 | 1.292855655 | 1752 | 492 | 4801 | 507 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 19 | 4732 | 1.057879323 | 1462 | 458 | 4473.1 | 473 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 20 | 3119 | 0.916544226 | 707 | 349 | 3403 | 357 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 21 | 2716 | 0.780370072 | 560 | 357 | 3480.4 | 366 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 22 | 2301 | 0.714041893 | 489 | 330 | 3222.5 | 336 |
| FL | Crystal River | 2 | 2013 | 11/17/2013 | 23 | 1374 | 0.692505418 | 319 | 203 | 1984.1 | 195 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 0 | 1029 | 0.691718204 | 413 | 152 | 1487.6 | 134 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 1 | 1041 | 0.701340699 | 417 | 152 | 1484.3 | 134 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 2 | 1043 | 0.696308165 | 419 | 153 | 1497.9 | 134 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 3 | 1044 | 0.696510775 | 415 | 153 | 1498.9 | 134 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 4 | 1042 | 0.700174708 | 409 | 152 | 1488.2 | 134 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 5 | 1150 | 0.70418223 | 365 | 167 | 1633.1 | 151 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 6 | 1897 | 0.724986624 | 382 | 268 | 2616.6 | 253 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 7 | 3578 | 0.826728899 | 1250 | 444 | 4327.9 | 450 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 8 | 3793 | 0.83852854 | 1361 | 464 | 4523.4 | 476 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 9 | 3398 | 0.811889231 | 1151 | 429 | 4185.3 | 441 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 10 | 3560 | 0.791163855 | 1295 | 461 | 4499.7 | 474 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 11 | 3409 | 0.754921718 | 1264 | 463 | 4515.7 | 476 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 12 | 3316 | 0.735173484 | 1244 | 462 | 4510.5 | 476 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 13 | 3282 | 0.726459781 | 1237 | 463 | 4517.8 | 476 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 14 | 3178 | 0.717138666 | 1187 | 454 | 4431.5 | 467 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 15 | 2595 | 0.706353095 | 793 | 376 | 3673.8 | 388 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 16 | 2578 | 0.706185285 | 770 | 374 | 3650.6 | 382 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 17 | 2631 | 0.706441479 | 834 | 382 | 3724.3 | 391 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 18 | 2545 | 0.704615299 | 751 | 370 | 3611.9 | 378 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 19 | 2530 | 0.701200078 | 743 | 370 | 3608.1 | 377 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 20 | 2411 | 0.695674755 | 648 | 355 | 3465.7 | 359 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 21 | 1499 | 0.691707812 | 318 | 222 | 2167.1 | 216 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 22 | 1004 | 0.679618222 | 444 | 151 | 1477.3 | 133 |
| FL | Crystal River | 2 | 2013 | 11/18/2013 | 23 | 931 | 0.677781013 | 513 | 140 | 1373.6 | 119 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 0 | 934 | 0.678927092 | 526 | 141 | 1375.7 | 119 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 1 | 939 | 0.679106097 | 528 | 141 | 1382.7 | 119 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 2 | 939 | 0.676707985 | 530 | 142 | 1387.6 | 119 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 3 | 939 | 0.679155215 | 537 | 141 | 1382.6 | 119 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 4 | 929 | 0.6813348 | 527 | 139 | 1363.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 5 | 916 | 0.680433814 | 527 | 138 | 1346.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 6 | 1216 | 0.688717716 | 301 | 181 | 1765.6 | 166 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 7 | 1020 | 0.685069514 | 430 | 152 | 1488.9 | 136 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 8 | 1786 | 0.693915611 | 406 | 264 | 2573.8 | 251 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 9 | 2477 | 0.70235631 | 529 | 361 | 3526.7 | 361 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 10 | 2228 | 0.703682648 | 455 | 324 | 3166.2 | 326 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 11 | 2318 | 0.704152617 | 467 | 337 | 3291.9 | 340 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 12 | 2664 | 0.708322255 | 1023 | 385 | 3761 | 396 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 13 | 2498 | 0.708692692 | 916 | 361 | 3524.8 | 372 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 14 | 2454 | 0.699643621 | 876 | 359 | 3507.5 | 365 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 15 | 2329 | 0.700851614 | 761 | 340 | 3323.1 | 347 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 16 | 2301 | 0.700499269 | 732 | 337 | 3284.8 | 342 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 17 | 2284 | 0.700463091 | 733 | 334 | 3260.7 | 341 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 18 | 2156 | 0.698706938 | 573 | 316 | 3085.7 | 319 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 19 | 2218 | 0.693298325 | 550 | 328 | 3199.2 | 329 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 20 | 2216 | 0.694779746 | 542 | 327 | 3189.5 | 328 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 21 | 1335 | 0.684369713 | 386 | 200 | 1950.7 | 190 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 22 | 1001 | 0.679058409 | 445 | 151 | 1474.1 | 131 |
| FL | Crystal River | 2 | 2013 | 11/19/2013 | 23 | 922 | 0.677144536 | 554 | 139 | 1361.6 | 120 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 0 | 916 | 0.678971166 | 557 | 138 | 1349.1 | 119 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 1 | 914 | 0.68163174 | 565 | 137 | 1340.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 2 | 915 | 0.682682981 | 556 | 137 | 1340.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 3 | 918 | 0.675596114 | 553 | 139 | 1358.8 | 119 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 4 | 913 | 0.677149002 | 540 | 138 | 1348.3 | 119 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 5 | 920 | 0.68340514 | 549 | 138 | 1346.2 | 119 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 6 | 1058 | 0.68483397 | 397 | 158 | 1544.9 | 142 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 7 | 974 | 0.680500245 | 425 | 146 | 1431.3 | 131 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 8 | 1296 | 0.681244743 | 401 | 195 | 1902.4 | 177 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 9 | 2359 | 0.69398682 | 843 | 348 | 3399.2 | 343 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 10 | 2436 | 0.7 | 946 | 357 | 3480 | 362 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 11 | 2442 | 0.704700892 | 914 | 355 | 3465.3 | 362 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 12 | 2452 | 0.706078844 | 902 | 356 | 3472.7 | 362 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 13 | 2474 | 0.705727978 | 904 | 359 | 3505.6 | 362 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 14 | 2469 | 0.704301689 | 918 | 359 | 3505.6 | 362 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 15 | 2458 | 0.702446273 | 909 | 359 | 3499.2 | 362 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 16 | 2480 | 0.703486228 | 927 | 361 | 3525.3 | 366 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 17 | 2699 | 0.705897738 | 1112 | 392 | 3823.5 | 399 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 18 | 2712 | 0.707484413 | 1127 | 393 | 3833.3 | 403 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 19 | 1886 | 0.699062234 | 634 | 276 | 2697.9 | 274 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 20 | 1076 | 0.690939446 | 437 | 159 | 1557.3 | 144 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 21 | 959 | 0.69522981 | 518 | 141 | 1379.4 | 123 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 22 | 957 | 0.686661405 | 526 | 143 | 1393.7 | 123 |
| FL | Crystal River | 2 | 2013 | 11/20/2013 | 23 | 962 | 0.693833393 | 531 | 142 | 1386.5 | 123 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 0 | 979 | 0.706706129 | 530 | 142 | 1385.3 | 123 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 1 | 991 | 0.714594751 | 529 | 142 | 1386.8 | 123 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 2 | 1002 | 0.720345075 | 531 | 142 | 1391 | 123 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 3 | 998 | 0.716079501 | 531 | 143 | 1393.7 | 123 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 4 | 1001 | 0.723579587 | 503 | 141 | 1383.4 | 123 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 5 | 1019 | 0.728637826 | 506 | 143 | 1398.5 | 123 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 6 | 980 | 0.72770476 | 402 | 138 | 1346.7 | 123 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 7 | 1023 | 0.711058595 | 362 | 147 | 1438.7 | 122 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 8 | 1896 | 0.709793351 | 507 | 274 | 2671.2 | 252 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 9 | 2532 | 0.706650666 | 806 | 367 | 3583.1 | 362 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 10 | 2511 | 0.71312942 | 714 | 361 | 3521.1 | 362 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 11 | 2530 | 0.716368888 | 653 | 362 | 3531.7 | 362 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 12 | 2554 | 0.720980126 | 662 | 363 | 3542.4 | 362 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 13 | 2599 | 0.733434925 | 659 | 363 | 3543.6 | 362 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 14 | 2563 | 0.728891164 | 671 | 360 | 3516.3 | 363 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 15 | 2553 | 0.722635795 | 653 | 362 | 3532.9 | 362 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 16 | 2468 | 0.725157196 | 622 | 349 | 3403.4 | 352 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 17 | 1885 | 0.71916371 | 422 | 268 | 2621.1 | 259 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 18 | 2388 | 0.728759766 | 599 | 336 | 3276.8 | 342 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 19 | 2510 | 0.727557321 | 648 | 354 | 3449.9 | 361 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 20 | 2552 | 0.729747505 | 671 | 358 | 3497.1 | 367 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 21 | 2570 | 0.732924569 | 697 | 359 | 3506.5 | 368 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 22 | 1601 | 0.72512342 | 401 | 226 | 2207.9 | 214 |
| FL | Crystal River | 2 | 2013 | 11/21/2013 | 23 | 944 | 0.706216803 | 526 | 137 | 1336.7 | 120 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 0 | 946 | 0.714123953 | 498 | 135 | 1324.7 | 119 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 1 | 954 | 0.716216216 | 515 | 136 | 1332 | 119 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 2 | 967 | 0.721372622 | 514 | 137 | 1340.5 | 120 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 3 | 993 | 0.723444558 | 569 | 140 | 1372.6 | 120 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 4 | 965 | 0.726985084 | 592 | 136 | 1327.4 | 120 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 5 | 1300 | 0.765155974 | 468 | 174 | 1699 | 156 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 6 | 1955 | 0.799166088 | 415 | 251 | 2446.3 | 236 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 7 | 2469 | 0.84979693 | 560 | 298 | 2905.4 | 292 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 8 | 2624 | 0.83839223 | 588 | 321 | 3129.8 | 327 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 9 | 2968 | 0.853364002 | 775 | 356 | 3478 | 368 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 10 | 3303 | 0.867931469 | 1137 | 390 | 3805.6 | 406 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 11 | 3406 | 0.899725275 | 1124 | 388 | 3785.6 | 403 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 12 | 3457 | 0.926139256 | 1108 | 383 | 3732.7 | 397 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 13 | 3553 | 0.951653944 | 1123 | 383 | 3733.5 | 397 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 14 | 3669 | 0.979941775 | 1153 | 384 | 3744.1 | 397 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 15 | 3706 | 0.991465796 | 1162 | 383 | 3737.9 | 397 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 16 | 3780 | 1.016785023 | 1185 | 381 | 3717.6 | 397 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 17 | 3387 | 1.059496997 | 770 | 328 | 3196.8 | 339 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 18 | 3558 | 1.068725219 | 765 | 341 | 3329.2 | 352 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 19 | 3680 | 1.081684842 | 809 | 349 | 3402.1 | 362 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 20 | 3807 | 1.091644205 | 868 | 357 | 3487.4 | 370 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 21 | 3530 | 1.096409492 | 746 | 330 | 3219.6 | 338 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 22 | 3316 | 1.103090383 | 676 | 308 | 3006.1 | 314 |
| FL | Crystal River | 2 | 2013 | 11/22/2013 | 23 | 2439 | 1.092154756 | 502 | 229 | 2233.2 | 222 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 0 | 1736 | 1.084796601 | 544 | 164 | 1600.3 | 153 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 1 | 1452 | 1.076751947 | 645 | 138 | 1348.5 | 119 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 2 | 1469 | 1.08509381 | 653 | 138 | 1353.8 | 120 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 3 | 1456 | 1.082206035 | 657 | 138 | 1345.4 | 120 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 4 | 1450 | 1.07359692 | 613 | 138 | 1350.6 | 120 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 5 | 1458 | 1.07720724 | 584 | 138 | 1353.5 | 120 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 6 | 1454 | 1.069196264 | 575 | 139 | 1359.9 | 120 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 7 | 1561 | 1.072336333 | 563 | 149 | 1455.7 | 129 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 8 | 2367 | 1.089026915 | 502 | 223 | 2173.5 | 208 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 9 | 3180 | 1.093008868 | 672 | 298 | 2909.4 | 294 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 10 | 3788 | 1.099468842 | 909 | 353 | 3445.3 | 361 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 11 | 3904 | 1.093679964 | 953 | 366 | 3569.6 | 372 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 12 | 3657 | 1.097506077 | 823 | 341 | 3332.1 | 348 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 13 | 3909 | 1.095418243 | 934 | 366 | 3568.5 | 371 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 14 | 3650 | 1.096853683 | 821 | 341 | 3327.7 | 344 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 15 | 3588 | 1.099736407 | 783 | 334 | 3262.6 | 340 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 16 | 3516 | 1.09929965 | 799 | 328 | 3198.4 | 332 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 17 | 2713 | 1.100921154 | 554 | 252 | 2464.3 | 246 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 18 | 3648 | 1.113723096 | 828 | 336 | 3275.5 | 340 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 19 | 3072 | 1.115427907 | 627 | 282 | 2754.1 | 276 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 20 | 3063 | 1.115196971 | 626 | 281 | 2746.6 | 274 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 21 | 2695 | 1.114511393 | 558 | 248 | 2418.1 | 242 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 22 | 2697 | 1.098619088 | 557 | 251 | 2454.9 | 246 |
| FL | Crystal River | 2 | 2013 | 11/23/2013 | 23 | 2412 | 1.074100463 | 496 | 230 | 2245.6 | 221 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 0 | 1590 | 1.060707138 | 517 | 153 | 1499 | 142 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 1 | 1477 | 1.071765474 | 527 | 141 | 1378.1 | 123 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 2 | 1523 | 1.110220149 | 544 | 140 | 1371.8 | 120 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 3 | 1588 | 1.163455198 | 555 | 140 | 1364.9 | 120 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 4 | 1659 | 1.236583184 | 523 | 137 | 1341.6 | 120 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 5 | 1759 | 1.313568815 | 530 | 137 | 1339.1 | 120 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 6 | 1922 | 1.443484792 | 523 | 136 | 1331.5 | 120 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 7 | 2037 | 1.537358491 | 520 | 135 | 1325 | 120 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 8 | 4127 | 1.620592162 | 634 | 261 | 2546.6 | 253 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 9 | 5083 | 1.648986212 | 779 | 316 | 3082.5 | 316 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 10 | 6391 | 1.586131586 | 1502 | 413 | 4029.3 | 422 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 11 | 6919 | 1.570394244 | 1824 | 452 | 4405.9 | 462 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 12 | 6747 | 1.61508079 | 1662 | 428 | 4177.5 | 443 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 13 | 7341 | 1.67445998 | 1815 | 449 | 4384.1 | 462 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 14 | 7293 | 1.70329542 | 1734 | 439 | 4281.7 | 453 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 15 | 6364 | 1.779592293 | 1190 | 366 | 3576.1 | 383 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 16 | 6239 | 1.744735591 | 1137 | 366 | 3575.9 | 382 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 17 | 7180 | 1.755715858 | 1513 | 419 | 4089.5 | 434 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 18 | 8168 | 1.759283191 | 2024 | 476 | 4642.8 | 490 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 19 | 7921 | 1.764535531 | 1898 | 460 | 4489 | 479 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 20 | 6604 | 1.734653673 | 1362 | 390 | 3807.1 | 413 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 21 | 4937 | 1.774750162 | 659 | 285 | 2781.8 | 298 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 22 | 3987 | 1.7750768 | 462 | 230 | 2246.1 | 228 |
| FL | Crystal River | 2 | 2013 | 11/24/2013 | 23 | 2407 | 1.74724158 | 450 | 141 | 1377.6 | 133 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 0 | 2242 | 1.714198333 | 457 | 134 | 1307.9 | 119 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 1 | 2236 | 1.714855434 | 444 | 133 | 1303.9 | 120 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 2 | 2244 | 1.718881655 | 447 | 133 | 1305.5 | 120 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 3 | 2253 | 1.707206183 | 435 | 135 | 1319.7 | 120 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 4 | 2237 | 1.709068684 | 429 | 134 | 1308.9 | 120 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 5 | 2290 | 1.700831848 | 433 | 138 | 1346.4 | 124 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 6 | 3075 | 1.711566292 | 442 | 184 | 1796.6 | 169 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 7 | 3954 | 1.740393503 | 472 | 233 | 2271.9 | 226 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 8 | 5440 | 1.767438838 | 738 | 315 | 3077.9 | 318 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 9 | 6195 | 1.782272217 | 969 | 356 | 3475.9 | 370 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 10 | 5816 | 1.791247036 | 840 | 333 | 3246.9 | 345 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 11 | 4808 | 1.773646156 | 596 | 278 | 2710.8 | 277 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 12 | 5708 | 1.762598814 | 829 | 332 | 3238.4 | 344 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 13 | 6100 | 1.765710481 | 963 | 354 | 3454.7 | 372 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 14 | 5559 | 1.706313883 | 983 | 334 | 3257.9 | 349 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 15 | 4771 | 1.680284567 | 749 | 291 | 2839.4 | 297 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 16 | 3865 | 1.685564762 | 573 | 235 | 2293 | 225 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 17 | 5056 | 1.765794712 | 770 | 293 | 2863.3 | 293 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 18 | 7816 | 1.748154775 | 1927 | 458 | 4471 | 476 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 19 | 7891 | 1.749046901 | 1962 | 462 | 4511.6 | 484 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 20 | 5826 | 1.781705863 | 1062 | 335 | 3269.9 | 354 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 21 | 2932 | 1.840321366 | 509 | 163 | 1593.2 | 155 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 22 | 2834 | 1.834898025 | 478 | 158 | 1544.5 | 145 |
| FL | Crystal River | 2 | 2013 | 11/25/2013 | 23 | 2592 | 1.832579186 | 529 | 145 | 1414.4 | 130 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 0 | 2419 | 1.813615235 | 585 | 136 | 1333.8 | 120 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 1 | 2428 | 1.808296716 | 588 | 137 | 1342.7 | 120 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 2 | 2421 | 1.807120997 | 568 | 137 | 1339.7 | 120 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 3 | 2644 | 1.795829654 | 562 | 151 | 1472.3 | 134 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 4 | 2969 | 1.802780982 | 543 | 169 | 1646.9 | 159 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 5 | 3864 | 1.82229768 | 517 | 217 | 2120.4 | 211 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 6 | 5877 | 1.805363561 | 1038 | 334 | 3255.3 | 344 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 7 | 6822 | 1.773837073 | 1511 | 394 | 3845.9 | 409 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 8 | 7742 | 1.816390212 | 1815 | 437 | 4262.3 | 454 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 9 | 8292 | 1.83682963 | 2085 | 463 | 4514.3 | 483 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 10 | 8080 | 1.828012941 | 2011 | 453 | 4420.1 | 474 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 11 | 8220 | 1.827560141 | 2042 | 461 | 4497.8 | 480 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 12 | 8243 | 1.820370125 | 2087 | 464 | 4528.2 | 482 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 13 | 8253 | 1.829527821 | 2070 | 462 | 4511 | 480 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 14 | 7667 | 1.837771759 | 1802 | 428 | 4171.9 | 447 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 15 | 7697 | 1.826400588 | 1748 | 432 | 4214.3 | 445 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 16 | 7410 | 1.827734202 | 1674 | 416 | 4054.2 | 432 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 17 | 8174 | 1.803976959 | 2075 | 464 | 4531.1 | 479 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 18 | 8219 | 1.807485925 | 2146 | 466 | 4547.2 | 485 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 19 | 8195 | 1.795416703 | 2127 | 468 | 4564.4 | 484 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 20 | 7353 | 1.778449631 | 1773 | 424 | 4134.5 | 443 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 21 | 6423 | 1.76243003 | 1326 | 373 | 3644.4 | 385 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 22 | 7498 | 1.758277835 | 1893 | 437 | 4264.4 | 452 |
| FL | Crystal River | 2 | 2013 | 11/26/2013 | 23 | 5496 | 1.742991247 | 889 | 323 | 3153.2 | 332 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 0 | 2712 | 1.716672997 | 500 | 162 | 1579.8 | 152 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 1 | 2251 | 1.687406297 | 592 | 136 | 1334 | 120 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 2 | 2295 | 1.691729323 | 588 | 139 | 1356.6 | 121 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 3 | 2292 | 1.680844823 | 591 | 139 | 1363.6 | 120 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 4 | 2334 | 1.668692357 | 609 | 143 | 1398.7 | 120 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 5 | 2331 | 1.683883551 | 598 | 142 | 1384.3 | 127 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 6 | 4290 | 1.719921421 | 616 | 255 | 2494.3 | 248 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 7 | 4557 | 1.724568574 | 655 | 271 | 2642.4 | 260 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 8 | 4396 | 1.734738171 | 600 | 260 | 2534.1 | 251 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 9 | 5685 | 1.758591889 | 834 | 331 | 3232.7 | 333 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 10 | 6479 | 1.768672199 | 1340 | 375 | 3663.2 | 386 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 11 | 5430 | 1.762586425 | 973 | 316 | 3080.7 | 321 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 12 | 5136 | 1.743262508 | 830 | 302 | 2946.2 | 302 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 13 | 4636 | 1.741874883 | 721 | 273 | 2661.5 | 268 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 14 | 3927 | 1.742236025 | 522 | 231 | 2254 | 227 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 15 | 2815 | 1.736261025 | 687 | 166 | 1621.3 | 156 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 16 | 2275 | 1.713876752 | 909 | 136 | 1327.4 | 119 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 17 | 2601 | 1.709721948 | 885 | 156 | 1521.3 | 140 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 18 | 5374 | 1.777704267 | 776 | 310 | 3023 | 306 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 19 | 4241 | 1.787716562 | 555 | 243 | 2372.3 | 238 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 20 | 4364 | 1.777813989 | 574 | 251 | 2454.7 | 249 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 21 | 3820 | 1.758100147 | 469 | 222 | 2172.8 | 220 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 22 | 3117 | 1.744654651 | 478 | 183 | 1786.6 | 178 |
| FL | Crystal River | 2 | 2013 | 11/27/2013 | 23 | 2531 | 1.70483632 | 430 | 152 | 1484.6 | 139 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 0 | 2631 | 1.685998078 | 443 | 160 | 1560.5 | 142 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 1 | 2925 | 1.690653719 | 460 | 177 | 1730.1 | 160 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 2 | 3163 | 1.696615352 | 436 | 191 | 1864.3 | 177 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 3 | 2647 | 1.68555782 | 441 | 161 | 1570.4 | 144 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 4 | 3243 | 1.699685535 | 431 | 195 | 1908 | 179 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 5 | 5626 | 1.719437653 | 808 | 335 | 3272 | 336 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 6 | 5931 | 1.724378543 | 1062 | 352 | 3439.5 | 358 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 7 | 5602 | 1.719248711 | 853 | 334 | 3258.4 | 340 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 8 | 7107 | 1.711705202 | 1573 | 426 | 4152 | 441 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 9 | 6445 | 1.710774295 | 1299 | 386 | 3767.3 | 409 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 10 | 6851 | 1.714078411 | 1466 | 410 | 3996.9 | 435 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 11 | 6165 | 1.692844198 | 1176 | 373 | 3641.8 | 396 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 12 | 6201 | 1.701841535 | 1198 | 373 | 3643.7 | 397 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 13 | 5959 | 1.699124633 | 1087 | 359 | 3507.1 | 381 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 14 | 6019 | 1.711353103 | 1100 | 360 | 3517.1 | 379 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 15 | 4441 | 1.73816047 | 590 | 262 | 2555 | 265 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 16 | 2358 | 1.722299321 | 569 | 140 | 1369.1 | 130 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 17 | 2235 | 1.710677382 | 621 | 134 | 1306.5 | 121 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 18 | 2288 | 1.692307692 | 570 | 138 | 1352 | 124 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 19 | 2187 | 1.663117871 | 614 | 134 | 1315 | 120 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 20 | 2270 | 1.642784773 | 558 | 141 | 1381.8 | 129 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 21 | 2433 | 1.620811405 | 481 | 154 | 1501.1 | 140 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 22 | 3143 | 1.658312668 | 462 | 194 | 1895.3 | 189 |
| FL | Crystal River | 2 | 2013 | 11/28/2013 | 23 | 2773 | 1.633867547 | 454 | 174 | 1697.2 | 166 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 0 | 2330 | 1.604683196 | 493 | 149 | 1452 | 139 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 1 | 2299 | 1.569604697 | 492 | 150 | 1464.7 | 139 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 2 | 2275 | 1.547092826 | 482 | 150 | 1470.5 | 139 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 3 | 2250 | 1.523461304 | 491 | 151 | 1476.9 | 139 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 4 | 2249 | 1.54612952 | 484 | 149 | 1454.6 | 139 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 5 | 2354 | 1.558837163 | 478 | 154 | 1510.1 | 147 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 6 | 3046 | 1.594180143 | 443 | 196 | 1910.7 | 189 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 7 | 3728 | 1.607450845 | 463 | 238 | 2319.2 | 236 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 8 | 3831 | 1.583057851 | 471 | 248 | 2420 | 248 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 9 | 3824 | 1.569013622 | 467 | 250 | 2437.2 | 248 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 10 | 4278 | 1.584561819 | 575 | 277 | 2699.8 | 276 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 11 | 3221 | 1.606563918 | 481 | 205 | 2004.9 | 203 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 12 | 3224 | 1.597463086 | 482 | 207 | 2018.2 | 198 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 13 | 3266 | 1.620843672 | 401 | 206 | 2015 | 198 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 14 | 2636 | 1.624853603 | 423 | 166 | 1622.3 | 154 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 15 | 2792 | 1.622501162 | 370 | 176 | 1720.8 | 161 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 16 | 2778 | 1.629612248 | 376 | 174 | 1704.7 | 161 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 17 | 3471 | 1.645335609 | 447 | 216 | 2109.6 | 207 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 18 | 4640 | 1.679212507 | 632 | 283 | 2763.2 | 280 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 19 | 4554 | 1.66972208 | 602 | 279 | 2727.4 | 277 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 20 | 4166 | 1.655737053 | 546 | 258 | 2516.1 | 258 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 21 | 3066 | 1.599374022 | 379 | 196 | 1917 | 195 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 22 | 2781 | 1.570654016 | 366 | 181 | 1770.6 | 176 |
| FL | Crystal River | 2 | 2013 | 11/29/2013 | 23 | 2612 | 1.570372152 | 355 | 170 | 1663.3 | 163 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 0 | 2569 | 1.56875916 | 358 | 168 | 1637.6 | 160 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 1 | 2568 | 1.570450098 | 351 | 167 | 1635.2 | 159 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 2 | 2549 | 1.553321146 | 352 | 168 | 1641 | 159 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 3 | 2542 | 1.545476654 | 352 | 168 | 1644.8 | 159 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 4 | 2516 | 1.525680674 | 352 | 169 | 1649.1 | 160 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 5 | 2544 | 1.532437805 | 351 | 170 | 1660.1 | 160 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 6 | 2545 | 1.547394662 | 350 | 168 | 1644.7 | 160 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 7 | 2593 | 1.58042299 | 354 | 168 | 1640.7 | 160 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 8 | 2684 | 1.597428878 | 366 | 172 | 1680.2 | 163 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 9 | 2787 | 1.629824561 | 393 | 175 | 1710 | 165 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 10 | 3148 | 1.655622173 | 391 | 195 | 1901.4 | 186 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 11 | 3873 | 1.668677294 | 464 | 238 | 2321 | 232 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 12 | 4984 | 1.674787459 | 690 | 305 | 2975.9 | 306 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 13 | 3984 | 1.656617739 | 526 | 246 | 2404.9 | 243 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 14 | 3897 | 1.627683569 | 517 | 245 | 2394.2 | 240 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 15 | 3882 | 1.601551219 | 526 | 248 | 2423.9 | 242 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 16 | 5581 | 1.621393917 | 991 | 353 | 3442.1 | 362 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 17 | 7446 | 1.64298323 | 2016 | 465 | 4532 | 485 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 18 | 5374 | 1.640565375 | 907 | 336 | 3275.7 | 354 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 19 | 4351 | 1.642940754 | 580 | 271 | 2648.3 | 274 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 20 | 4055 | 1.652000326 | 542 | 251 | 2454.6 | 251 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 21 | 3890 | 1.656729131 | 523 | 240 | 2348 | 240 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 22 | 3993 | 1.65 | 544 | 248 | 2420 | 246 |
| FL | Crystal River | 2 | 2013 | 11/30/2013 | 23 | 2986 | 1.65337763 | 456 | 185 | 1806 | 181 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 0 | 213 | 0.070091151 | 221 | 311 | 3038.9 | 241 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 1 | 169 | 0.058811247 | 206 | 294 | 2873.6 | 226 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 2 | 186 | 0.063672463 | 219 | 299 | 2921.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 3 | 168 | 0.058616238 | 212 | 294 | 2866.1 | 227 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 4 | 158 | 0.05596288 | 211 | 289 | 2823.3 | 226 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 5 | 123 | 0.043396959 | 212 | 290 | 2834.3 | 225 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 6 | 146 | 0.051537294 | 215 | 290 | 2832.9 | 225 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 7 | 251 | 0.078883686 | 235 | 326 | 3181.9 | 259 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 8 | 1043 | 0.196155872 | 361 | 545 | 5317.2 | 500 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 9 | 2145 | 0.289649585 | 555 | 759 | 7405.5 | 741 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 10 | 1652 | 0.219214437 | 618 | 773 | 7536 | 757 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 11 | 1395 | 0.184572638 | 627 | 775 | 7558 | 757 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 12 | 1184 | 0.157677454 | 623 | 770 | 7509 | 755 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 13 | 993 | 0.133444425 | 602 | 763 | 7441.3 | 744 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 14 | 1018 | 0.136016247 | 583 | 767 | 7484.4 | 742 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 15 | 1083 | 0.144271118 | 600 | 770 | 7506.7 | 745 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 16 | 1028 | 0.136625821 | 617 | 772 | 7524.2 | 751 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 17 | 933 | 0.123906028 | 602 | 772 | 7529.9 | 748 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 18 | 886 | 0.117073429 | 613 | 776 | 7567.9 | 751 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 19 | 875 | 0.115933964 | 618 | 774 | 7547.4 | 751 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 20 | 898 | 0.120101645 | 598 | 767 | 7477 | 740 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 21 | 645 | 0.100083791 | 470 | 661 | 6444.6 | 622 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 22 | 391 | 0.074309172 | 336 | 539 | 5261.8 | 486 |
| FL | Crystal River | 4 | 2013 | 9/1/2013 | 23 | 157 | 0.044212898 | 241 | 364 | 3551 | 300 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 0 | 195 | 0.06110937 | 217 | 327 | 3191 | 252 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 1 | 184 | 0.064149496 | 189 | 294 | 2868.3 | 226 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 2 | 196 | 0.067141683 | 198 | 299 | 2919.2 | 225 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 3 | 195 | 0.067204301 | 197 | 297 | 2901.6 | 226 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 4 | 183 | 0.063334948 | 190 | 296 | 2889.4 | 226 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 5 | 170 | 0.059611473 | 202 | 292 | 2851.8 | 226 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 6 | 191 | 0.066958808 | 202 | 292 | 2852.5 | 225 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 7 | 265 | 0.082833208 | 195 | 328 | 3199.2 | 260 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 8 | 702 | 0.1469357 | 286 | 490 | 4777.6 | 434 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 9 | 1465 | 0.213575531 | 493 | 703 | 6859.4 | 664 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 10 | 884 | 0.116802981 | 605 | 776 | 7568.3 | 755 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 11 | 901 | 0.118229057 | 624 | 781 | 7620.8 | 757 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 12 | 1069 | 0.139835442 | 642 | 784 | 7644.7 | 761 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 13 | 1022 | 0.134266984 | 624 | 781 | 7611.7 | 762 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 14 | 1020 | 0.134313028 | 653 | 779 | 7594.2 | 756 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 15 | 930 | 0.121573395 | 596 | 784 | 7649.7 | 760 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 16 | 863 | 0.113861256 | 621 | 777 | 7579.4 | 760 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 17 | 915 | 0.120018888 | 617 | 782 | 7623.8 | 762 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 18 | 926 | 0.121488829 | 625 | 782 | 7622.1 | 761 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 19 | 868 | 0.114460532 | 614 | 778 | 7583.4 | 755 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 20 | 890 | 0.116528752 | 618 | 783 | 7637.6 | 759 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 21 | 827 | 0.114379763 | 556 | 741 | 7230.3 | 715 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 22 | 568 | 0.09605953 | 408 | 606 | 5913 | 560 |
| FL | Crystal River | 4 | 2013 | 9/2/2013 | 23 | 323 | 0.082035913 | 271 | 404 | 3937.3 | 339 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 0 | 221 | 0.074208388 | 217 | 305 | 2978.1 | 232 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 1 | 196 | 0.067118691 | 213 | 299 | 2920.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 2 | 187 | 0.06388794 | 219 | 300 | 2927 | 226 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 3 | 184 | 0.062942565 | 219 | 299 | 2923.3 | 226 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 4 | 182 | 0.062345848 | 230 | 299 | 2919.2 | 228 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 5 | 351 | 0.093443016 | 270 | 385 | 3756.3 | 315 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 6 | 525 | 0.11829653 | 266 | 455 | 4438 | 381 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 7 | 1148 | 0.189463956 | 393 | 621 | 6059.2 | 572 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 8 | 824 | 0.113969571 | 549 | 741 | 7230 | 713 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 9 | 816 | 0.107099264 | 617 | 781 | 7619.1 | 759 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 10 | 934 | 0.122381058 | 625 | 783 | 7631.9 | 760 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 11 | 1044 | 0.136865979 | 640 | 782 | 7627.9 | 761 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 12 | 964 | 0.126306963 | 618 | 783 | 7632.2 | 759 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 13 | 965 | 0.126287412 | 664 | 784 | 7641.3 | 760 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 14 | 932 | 0.121588478 | 628 | 786 | 7665.2 | 759 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 15 | 869 | 0.113538373 | 620 | 785 | 7653.8 | 761 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 16 | 923 | 0.120993642 | 625 | 782 | 7628.5 | 760 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 17 | 958 | 0.126004551 | 623 | 780 | 7602.9 | 760 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 18 | 1020 | 0.132696736 | 630 | 788 | 7686.7 | 760 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 19 | 989 | 0.128600221 | 622 | 789 | 7690.5 | 760 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 20 | 1002 | 0.130742833 | 628 | 786 | 7663.9 | 762 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 21 | 893 | 0.121494946 | 566 | 754 | 7350.1 | 726 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 22 | 966 | 0.148350636 | 475 | 668 | 6511.6 | 628 |
| FL | Crystal River | 4 | 2013 | 9/3/2013 | 23 | 384 | 0.094036978 | 269 | 419 | 4083.5 | 359 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 0 | 201 | 0.067745197 | 216 | 304 | 2967 | 231 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 1 | 203 | 0.069262001 | 214 | 300 | 2930.9 | 226 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 2 | 191 | 0.065030132 | 214 | 301 | 2937.1 | 225 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 3 | 191 | 0.065419921 | 216 | 299 | 2919.6 | 226 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 4 | 189 | 0.065224143 | 223 | 297 | 2897.7 | 226 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 5 | 358 | 0.098952431 | 238 | 371 | 3617.9 | 304 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 6 | 593 | 0.132250942 | 295 | 460 | 4483.9 | 394 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 7 | 1073 | 0.195243554 | 362 | 563 | 5495.7 | 514 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 8 | 1032 | 0.157848851 | 457 | 670 | 6537.9 | 636 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 9 | 640 | 0.097230451 | 467 | 675 | 6582.3 | 646 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 10 | 867 | 0.122677685 | 537 | 725 | 7067.3 | 692 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 11 | 1208 | 0.157671474 | 620 | 786 | 7661.5 | 757 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 12 | 908 | 0.118921326 | 641 | 783 | 7635.3 | 759 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 13 | 868 | 0.11389432 | 640 | 781 | 7621.1 | 760 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 14 | 939 | 0.123052327 | 641 | 782 | 7630.9 | 759 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 15 | 989 | 0.12822175 | 632 | 791 | 7713.2 | 760 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 16 | 968 | 0.125953106 | 622 | 788 | 7685.4 | 760 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 17 | 960 | 0.12479688 | 623 | 789 | 7692.5 | 760 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 18 | 958 | 0.124125421 | 625 | 791 | 7718 | 761 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 19 | 959 | 0.125308698 | 612 | 785 | 7653.1 | 760 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 20 | 692 | 0.105983796 | 476 | 669 | 6529.3 | 639 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 21 | 450 | 0.083251623 | 351 | 554 | 5405.3 | 509 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 22 | 214 | 0.054835238 | 269 | 400 | 3902.6 | 337 |
| FL | Crystal River | 4 | 2013 | 9/4/2013 | 23 | 137 | 0.046197943 | 249 | 304 | 2965.5 | 238 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 0 | 137 | 0.047628981 | 256 | 295 | 2876.4 | 226 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 1 | 119 | 0.041669585 | 231 | 293 | 2855.8 | 226 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 2 | 120 | 0.041286771 | 229 | 298 | 2906.5 | 226 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 3 | 119 | 0.041282176 | 224 | 295 | 2882.6 | 226 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 4 | 117 | 0.040964952 | 228 | 293 | 2856.1 | 226 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 5 | 121 | 0.041714069 | 226 | 297 | 2900.7 | 232 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 6 | 155 | 0.049815202 | 242 | 319 | 3111.5 | 255 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 7 | 216 | 0.062552489 | 227 | 354 | 3453.1 | 292 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 8 | 576 | 0.113717129 | 303 | 519 | 5065.2 | 470 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 9 | 1095 | 0.149610603 | 527 | 750 | 7319 | 725 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 10 | 788 | 0.104022283 | 613 | 777 | 7575.3 | 758 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 11 | 784 | 0.103516115 | 613 | 777 | 7573.7 | 759 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 12 | 908 | 0.119147596 | 632 | 781 | 7620.8 | 759 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 13 | 975 | 0.127736509 | 633 | 783 | 7632.9 | 759 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 14 | 1037 | 0.135745422 | 626 | 783 | 7639.3 | 759 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 15 | 734 | 0.096153846 | 626 | 783 | 7633.6 | 759 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 16 | 863 | 0.112481101 | 621 | 787 | 7672.4 | 760 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 17 | 1243 | 0.162905297 | 625 | 782 | 7630.2 | 761 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 18 | 1351 | 0.17714548 | 625 | 782 | 7626.5 | 761 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 19 | 1146 | 0.150851005 | 615 | 779 | 7596.9 | 760 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 20 | 959 | 0.125973702 | 609 | 781 | 7612.7 | 759 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 21 | 819 | 0.119987694 | 498 | 700 | 6825.7 | 669 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 22 | 461 | 0.098181199 | 319 | 481 | 4695.4 | 427 |
| FL | Crystal River | 4 | 2013 | 9/5/2013 | 23 | 417 | 0.118658054 | 260 | 360 | 3514.3 | 293 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 0 | 242 | 0.083175803 | 264 | 298 | 2909.5 | 227 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 1 | 244 | 0.083290664 | 263 | 300 | 2929.5 | 226 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 2 | 251 | 0.086056159 | 277 | 299 | 2916.7 | 226 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 3 | 243 | 0.084106327 | 248 | 296 | 2889.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 4 | 232 | 0.080591934 | 204 | 295 | 2878.7 | 226 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 5 | 426 | 0.120669631 | 250 | 362 | 3530.3 | 297 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 6 | 569 | 0.136104865 | 267 | 428 | 4180.6 | 362 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 7 | 1013 | 0.185868149 | 348 | 559 | 5450.1 | 513 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 8 | 1288 | 0.177677229 | 543 | 743 | 7249.1 | 722 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 9 | 762 | 0.101226138 | 609 | 772 | 7527.7 | 757 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 10 | 895 | 0.118500669 | 634 | 774 | 7552.7 | 757 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 11 | 1365 | 0.181065701 | 633 | 773 | 7538.7 | 755 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 12 | 1026 | 0.134804888 | 639 | 780 | 7611 | 757 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 13 | 961 | 0.126274572 | 639 | 780 | 7610.4 | 760 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 14 | 816 | 0.108434215 | 639 | 772 | 7525.3 | 758 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 15 | 740 | 0.097881008 | 650 | 775 | 7560.2 | 758 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 16 | 772 | 0.103486642 | 626 | 765 | 7459.9 | 758 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 17 | 666 | 0.089813092 | 630 | 760 | 7415.4 | 758 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 18 | 725 | 0.104091888 | 564 | 714 | 6965 | 705 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 19 | 779 | 0.116112684 | 509 | 688 | 6709 | 675 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 20 | 568 | 0.092675684 | 459 | 628 | 6128.9 | 609 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 21 | 573 | 0.097222458 | 430 | 604 | 5893.7 | 575 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 22 | 349 | 0.064828919 | 387 | 552 | 5383.4 | 517 |
| FL | Crystal River | 4 | 2013 | 9/6/2013 | 23 | 136 | 0.031847134 | 320 | 438 | 4270.4 | 393 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 0 | 103 | 0.028568259 | 270 | 369 | 3605.4 | 321 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 1 | 67 | 0.023929426 | 218 | 287 | 2799.9 | 234 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 2 | 84 | 0.030454644 | 212 | 283 | 2758.2 | 225 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 3 | 114 | 0.041134445 | 210 | 284 | 2771.4 | 226 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 4 | 124 | 0.045215869 | 211 | 281 | 2742.4 | 226 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 5 | 139 | 0.050863583 | 213 | 280 | 2732.8 | 226 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 6 | 162 | 0.058740346 | 212 | 283 | 2757.9 | 226 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 7 | 224 | 0.074453234 | 240 | 308 | 3008.6 | 254 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 8 | 548 | 0.117046498 | 295 | 480 | 4681.9 | 441 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 9 | 885 | 0.132194124 | 488 | 686 | 6694.7 | 670 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 10 | 758 | 0.103288048 | 601 | 752 | 7338.7 | 751 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 11 | 1009 | 0.135111611 | 627 | 766 | 7467.9 | 757 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 12 | 930 | 0.123311102 | 633 | 773 | 7541.9 | 758 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 13 | 919 | 0.12276577 | 628 | 768 | 7485.8 | 757 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 14 | 990 | 0.130618923 | 629 | 777 | 7579.3 | 757 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 15 | 977 | 0.129077433 | 620 | 776 | 7569.1 | 758 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 16 | 1026 | 0.135272325 | 629 | 778 | 7584.7 | 761 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 17 | 1032 | 0.135559379 | 639 | 781 | 7612.9 | 765 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 18 | 1056 | 0.13903518 | 622 | 779 | 7595.2 | 768 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 19 | 1035 | 0.137200578 | 611 | 774 | 7543.7 | 766 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 20 | 1015 | 0.134243278 | 612 | 775 | 7560.9 | 766 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 21 | 1011 | 0.136653015 | 584 | 759 | 7398.3 | 750 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 22 | 639 | 0.106322795 | 420 | 616 | 6010 | 585 |
| FL | Crystal River | 4 | 2013 | 9/7/2013 | 23 | 435 | 0.096800036 | 314 | 461 | 4493.8 | 419 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 0 | 343 | 0.106205103 | 226 | 331 | 3229.6 | 277 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 1 | 293 | 0.104344729 | 207 | 288 | 2808 | 225 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 2 | 228 | 0.080699395 | 209 | 289 | 2825.3 | 225 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 3 | 175 | 0.06250893 | 207 | 287 | 2799.6 | 226 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 4 | 180 | 0.064655172 | 208 | 285 | 2784 | 226 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 5 | 171 | 0.061875814 | 212 | 283 | 2763.6 | 226 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 6 | 175 | 0.063578565 | 198 | 282 | 2752.5 | 225 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 7 | 247 | 0.079963741 | 234 | 316 | 3088.9 | 265 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 8 | 775 | 0.154330207 | 341 | 515 | 5021.7 | 484 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 9 | 1204 | 0.170780142 | 528 | 723 | 7050 | 707 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 10 | 916 | 0.123347068 | 586 | 761 | 7426.2 | 757 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 11 | 810 | 0.108870968 | 602 | 763 | 7440 | 757 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 12 | 910 | 0.122649774 | 593 | 761 | 7419.5 | 758 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 13 | 1066 | 0.141777943 | 639 | 771 | 7518.8 | 758 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 14 | 1112 | 0.147276965 | 588 | 774 | 7550.4 | 757 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 15 | 1031 | 0.135888548 | 599 | 778 | 7587.1 | 757 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 16 | 973 | 0.128479375 | 605 | 777 | 7573.2 | 758 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 17 | 952 | 0.125927592 | 604 | 775 | 7559.9 | 758 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 18 | 964 | 0.127024285 | 629 | 778 | 7589.1 | 759 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 19 | 965 | 0.127087394 | 637 | 779 | 7593.2 | 757 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 20 | 987 | 0.129752327 | 608 | 780 | 7606.8 | 759 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 21 | 1025 | 0.135309959 | 613 | 777 | 7575.2 | 757 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 22 | 792 | 0.118545128 | 494 | 685 | 6681 | 667 |
| FL | Crystal River | 4 | 2013 | 9/8/2013 | 23 | 464 | 0.086096525 | 377 | 552 | 5389.3 | 515 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 0 | 219 | 0.054106137 | 299 | 415 | 4047.6 | 360 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 1 | 307 | 0.077452885 | 285 | 406 | 3963.7 | 352 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 2 | 327 | 0.082749197 | 280 | 405 | 3951.7 | 348 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 3 | 148 | 0.048053508 | 258 | 316 | 3079.9 | 253 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 4 | 136 | 0.046525948 | 245 | 299 | 2923.1 | 234 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 5 | 269 | 0.074915755 | 244 | 368 | 3590.7 | 314 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 6 | 392 | 0.088547549 | 247 | 454 | 4427 | 398 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 7 | 638 | 0.117182478 | 332 | 558 | 5444.5 | 523 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 8 | 1131 | 0.160055475 | 494 | 725 | 7066.3 | 711 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 9 | 1020 | 0.137633248 | 570 | 760 | 7411 | 751 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 10 | 937 | 0.125695888 | 581 | 764 | 7454.5 | 755 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 11 | 1082 | 0.145435972 | 587 | 763 | 7439.7 | 751 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 12 | 1236 | 0.165926085 | 588 | 764 | 7449.1 | 748 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 13 | 1093 | 0.146735045 | 581 | 764 | 7448.8 | 749 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 14 | 1076 | 0.143694662 | 591 | 768 | 7488.1 | 752 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 15 | 1105 | 0.145517278 | 615 | 779 | 7593.6 | 758 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 16 | 1199 | 0.158102246 | 621 | 778 | 7583.7 | 759 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 17 | 1157 | 0.151741685 | 640 | 782 | 7624.8 | 761 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 18 | 1106 | 0.144948429 | 648 | 782 | 7630.3 | 763 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 19 | 1095 | 0.143519975 | 633 | 782 | 7629.6 | 764 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 20 | 1133 | 0.149657887 | 628 | 776 | 7570.6 | 757 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 21 | 1004 | 0.140172563 | 551 | 734 | 7162.6 | 714 |
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 22 | 836 | 0.131566523 | 457 | 651 | 6354.2 | 622 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/9/2013 | 23 | 482 | 0.102118644 | 344 | 484 | 4720 | 436 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 0 | 337 | 0.098818286 | 259 | 349 | 3410.3 | 296 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 1 | 190 | 0.067678279 | 247 | 288 | 2807.4 | 225 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 2 | 138 | 0.047701348 | 274 | 296 | 2893 | 225 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 3 | 131 | 0.045898882 | 256 | 292 | 2854.1 | 227 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 4 | 153 | 0.051713648 | 260 | 303 | 2958.6 | 244 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 5 | 338 | 0.08579769 | 279 | 404 | 3939.5 | 355 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 6 | 547 | 0.111409833 | 279 | 503 | 4909.8 | 458 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 7 | 738 | 0.125367354 | 382 | 604 | 5886.7 | 573 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 8 | 990 | 0.142415306 | 514 | 713 | 6951.5 | 697 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 9 | 941 | 0.126568658 | 565 | 762 | 7434.7 | 750 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 10 | 973 | 0.131091441 | 593 | 761 | 7422.3 | 750 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 11 | 1101 | 0.147245664 | 613 | 767 | 7477.3 | 754 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 12 | 1290 | 0.172674582 | 590 | 766 | 7470.7 | 753 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 13 | 1334 | 0.178311256 | 591 | 767 | 7481.3 | 755 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 14 | 1208 | 0.16133125 | 599 | 768 | 7487.7 | 755 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 15 | 1164 | 0.155255892 | 622 | 769 | 7497.3 | 755 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 16 | 1162 | 0.154140026 | 633 | 773 | 7538.6 | 756 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 17 | 1184 | 0.156192285 | 636 | 777 | 7580.4 | 761 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 18 | 1194 | 0.157045338 | 646 | 780 | 7602.9 | 763 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 19 | 1179 | 0.155795761 | 635 | 776 | 7567.6 | 761 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 20 | 1125 | 0.147837628 | 639 | 780 | 7609.7 | 762 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 21 | 955 | 0.131096682 | 582 | 747 | 7284.7 | 727 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 22 | 742 | 0.114596364 | 485 | 664 | 6474.9 | 636 |
| FL | Crystal River | 4 | 2013 | 9/10/2013 | 23 | 410 | 0.080222274 | 357 | 524 | 5110.8 | 474 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 0 | 153 | 0.045476162 | 289 | 345 | 3364.4 | 281 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 1 | 126 | 0.044221388 | 279 | 292 | 2849.3 | 226 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 2 | 145 | 0.050761421 | 279 | 293 | 2856.5 | 226 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 3 | 152 | 0.054123344 | 266 | 288 | 2808.4 | 226 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 4 | 192 | 0.059681079 | 296 | 330 | 3217.1 | 271 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 5 | 426 | 0.095125382 | 322 | 459 | 4478.3 | 418 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 6 | 747 | 0.127792794 | 344 | 599 | 5845.4 | 564 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 7 | 956 | 0.137623264 | 500 | 712 | 6946.5 | 703 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 8 | 964 | 0.129326536 | 581 | 764 | 7454 | 759 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 9 | 1048 | 0.140420457 | 619 | 765 | 7463.3 | 761 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 10 | 1181 | 0.15675812 | 587 | 773 | 7533.9 | 762 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 11 | 1250 | 0.165635311 | 603 | 774 | 7546.7 | 761 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 12 | 1188 | 0.15669309 | 636 | 777 | 7581.7 | 763 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 13 | 1133 | 0.149964924 | 627 | 775 | 7555.1 | 760 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 14 | 1150 | 0.151116951 | 616 | 780 | 7610 | 761 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 15 | 1169 | 0.15374903 | 623 | 780 | 7603.3 | 762 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 16 | 1135 | 0.149868617 | 545 | 777 | 7573.3 | 759 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 17 | 1162 | 0.153229422 | 599 | 778 | 7583.4 | 759 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 18 | 1172 | 0.154940377 | 605 | 776 | 7564.2 | 761 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 19 | 1239 | 0.163585952 | 605 | 777 | 7574 | 761 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 20 | 1081 | 0.142497462 | 606 | 778 | 7586.1 | 760 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 21 | 1068 | 0.140757825 | 599 | 778 | 7587.5 | 761 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 22 | 815 | 0.118196453 | 503 | 707 | 6895.3 | 686 |
| FL | Crystal River | 4 | 2013 | 9/11/2013 | 23 | 568 | 0.097504034 | 402 | 597 | 5825.4 | 566 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 0 | 313 | 0.066969062 | 285 | 479 | 4673.8 | 430 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 1 | 167 | 0.049785357 | 211 | 344 | 3354.4 | 290 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 2 | 122 | 0.04305781 | 201 | 290 | 2833.4 | 225 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 3 | 138 | 0.0491488 | 193 | 288 | 2807.8 | 226 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 4 | 189 | 0.063367532 | 211 | 306 | 2982.6 | 250 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 5 | 693 | 0.15130674 | 274 | 469 | 4580.1 | 437 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 6 | 1144 | 0.186571424 | 392 | 629 | 6131.7 | 609 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 7 | 1125 | 0.159608427 | 542 | 723 | 7048.5 | 720 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 8 | 1025 | 0.138022972 | 601 | 761 | 7426.3 | 760 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 9 | 937 | 0.125463626 | 612 | 766 | 7468.3 | 761 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 10 | 1383 | 0.185190145 | 627 | 766 | 7468 | 761 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 11 | 1405 | 0.18627282 | 626 | 773 | 7542.7 | 760 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 12 | 1223 | 0.161509713 | 620 | 776 | 7572.3 | 760 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 13 | 773 | 0.102309576 | 612 | 775 | 7555.5 | 760 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 14 | 476 | 0.063289456 | 624 | 771 | 7521 | 760 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 15 | 673 | 0.08928453 | 625 | 773 | 7537.7 | 761 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 16 | 637 | 0.084752528 | 616 | 771 | 7516 | 760 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 17 | 499 | 0.065618178 | 616 | 780 | 7604.6 | 761 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 18 | 421 | 0.055321945 | 624 | 780 | 7610 | 760 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 19 | 390 | 0.05141456 | 614 | 778 | 7585.4 | 761 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 20 | 369 | 0.049831195 | 599 | 759 | 7405 | 744 |

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|----|---------------|---|------|-----------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 21 | 263 | 0.039918039 | 487 | 676 | 6588.5 | 655 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 22 | 139 | 0.023263598 | 412 | 613 | 5975 | 584 |
| FL | Crystal River | 4 | 2013 | 9/12/2013 | 23 | 76 | 0.015595182 | 326 | 500 | 4873.3 | 456 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 0 | 32 | 0.008790484 | 218 | 373 | 3640.3 | 316 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 1 | 20 | 0.007121493 | 202 | 288 | 2808.4 | 225 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 2 | 35 | 0.012410467 | 200 | 289 | 2820.2 | 225 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 3 | 44 | 0.015651122 | 202 | 288 | 2811.3 | 226 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 4 | 50 | 0.017281902 | 211 | 296 | 2893.2 | 238 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 5 | 108 | 0.02781283 | 283 | 398 | 3883.1 | 352 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 6 | 261 | 0.046265932 | 321 | 578 | 5641.3 | 549 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 7 | 404 | 0.063623049 | 450 | 651 | 6349.9 | 629 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 8 | 440 | 0.063325753 | 535 | 712 | 6948.2 | 698 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 9 | 438 | 0.05846236 | 621 | 768 | 7492 | 754 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 10 | 441 | 0.058829022 | 614 | 769 | 7496.3 | 757 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 11 | 461 | 0.060629176 | 638 | 780 | 7603.6 | 761 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 12 | 450 | 0.059442823 | 635 | 776 | 7570.3 | 761 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 13 | 450 | 0.059358141 | 629 | 777 | 7581.1 | 763 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 14 | 463 | 0.061149559 | 636 | 776 | 7571.6 | 763 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 15 | 498 | 0.06590091 | 627 | 775 | 7556.8 | 758 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 16 | 532 | 0.070324789 | 627 | 776 | 7564.9 | 763 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 17 | 558 | 0.073594387 | 629 | 777 | 7582.1 | 761 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 18 | 578 | 0.076330837 | 620 | 776 | 7572.3 | 761 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 19 | 595 | 0.078593506 | 628 | 776 | 7570.6 | 761 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 20 | 563 | 0.076816024 | 579 | 752 | 7329.2 | 731 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 21 | 360 | 0.061251574 | 434 | 603 | 5877.4 | 566 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 22 | 323 | 0.059430716 | 326 | 557 | 5434.9 | 509 |
| FL | Crystal River | 4 | 2013 | 9/13/2013 | 23 | 228 | 0.048980644 | 293 | 477 | 4654.9 | 418 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 0 | 85 | 0.0266074 | 217 | 327 | 3194.6 | 264 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 1 | 87 | 0.028074478 | 216 | 317 | 3098.9 | 251 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 2 | 80 | 0.02736446 | 219 | 300 | 2923.5 | 237 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 3 | 65 | 0.023100434 | 205 | 288 | 2813.8 | 225 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 4 | 59 | 0.021184919 | 200 | 285 | 2785 | 225 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 5 | 55 | 0.019535412 | 214 | 288 | 2815.4 | 225 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 6 | 74 | 0.026482482 | 209 | 286 | 2794.3 | 225 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 7 | 114 | 0.033879164 | 245 | 345 | 3364.9 | 289 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 8 | 475 | 0.079477955 | 400 | 613 | 5976.5 | 584 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 9 | 747 | 0.099763612 | 591 | 768 | 7487.7 | 757 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 10 | 968 | 0.1286926 | 616 | 771 | 7521.8 | 760 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 11 | 1315 | 0.174130671 | 634 | 774 | 7551.8 | 763 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 12 | 1077 | 0.142360514 | 627 | 776 | 7565.3 | 759 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 13 | 1126 | 0.149404241 | 618 | 773 | 7536.6 | 760 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 14 | 1128 | 0.149342654 | 626 | 774 | 7553.1 | 763 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 15 | 873 | 0.127166788 | 521 | 704 | 6865 | 686 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 16 | 964 | 0.14719355 | 484 | 671 | 6549.2 | 641 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 17 | 1337 | 0.189100887 | 544 | 725 | 7070.3 | 697 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 18 | 1165 | 0.152865072 | 632 | 781 | 7621.1 | 764 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 19 | 1037 | 0.136648746 | 622 | 778 | 7588.8 | 761 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 20 | 1144 | 0.149903035 | 633 | 783 | 7631.6 | 763 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 21 | 985 | 0.139841277 | 549 | 722 | 7043.7 | 703 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 22 | 692 | 0.119197313 | 394 | 595 | 5805.5 | 558 |
| FL | Crystal River | 4 | 2013 | 9/14/2013 | 23 | 405 | 0.092410898 | 271 | 449 | 4382.6 | 395 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 0 | 221 | 0.056925019 | 225 | 398 | 3882.3 | 333 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 1 | 83 | 0.028292882 | 214 | 301 | 2933.6 | 230 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 2 | 81 | 0.028237755 | 206 | 294 | 2868.5 | 226 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 3 | 91 | 0.032267215 | 205 | 289 | 2820.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 4 | 94 | 0.033729233 | 203 | 285 | 2786.9 | 226 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 5 | 105 | 0.037743988 | 214 | 285 | 2781.9 | 225 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 6 | 123 | 0.044070226 | 198 | 286 | 2791 | 225 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 7 | 168 | 0.052542691 | 217 | 328 | 3197.4 | 271 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 8 | 448 | 0.092205734 | 306 | 498 | 4858.7 | 457 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 9 | 918 | 0.126301886 | 537 | 745 | 7268.3 | 725 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 10 | 717 | 0.094860091 | 619 | 775 | 7558.5 | 759 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 11 | 589 | 0.078344263 | 631 | 771 | 7518.1 | 760 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 12 | 581 | 0.077196992 | 602 | 772 | 7526.2 | 754 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 13 | 627 | 0.083101392 | 664 | 774 | 7545 | 755 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 14 | 657 | 0.086563546 | 607 | 778 | 7589.8 | 758 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 15 | 484 | 0.063863196 | 636 | 777 | 7578.7 | 758 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 16 | 370 | 0.049679767 | 625 | 764 | 7447.7 | 756 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 17 | 322 | 0.047677569 | 594 | 692 | 6753.7 | 671 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 18 | 597 | 0.087104964 | 603 | 703 | 6853.8 | 679 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 19 | 624 | 0.091890379 | 604 | 696 | 6790.7 | 669 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 20 | 501 | 0.081625338 | 399 | 629 | 6137.8 | 596 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 21 | 251 | 0.048795661 | 339 | 527 | 5143.9 | 485 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 22 | 115 | 0.026820281 | 278 | 439 | 4287.8 | 382 |
| FL | Crystal River | 4 | 2013 | 9/15/2013 | 23 | 41 | 0.014240561 | 224 | 295 | 2879.1 | 231 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 0 | 36 | 0.012804553 | 210 | 288 | 2811.5 | 226 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 1 | 34 | 0.012263743 | 224 | 284 | 2772.4 | 225 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 2 | 36 | 0.012990762 | 216 | 284 | 2771.2 | 225 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 3 | 37 | 0.013426716 | 206 | 282 | 2755.7 | 226 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 4 | 37 | 0.013094564 | 220 | 289 | 2825.6 | 234 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 5 | 54 | 0.017021813 | 241 | 325 | 3172.4 | 273 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 6 | 71 | 0.023066177 | 221 | 315 | 3078.1 | 257 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 7 | 197 | 0.045725692 | 305 | 442 | 4308.3 | 410 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 8 | 455 | 0.065552514 | 541 | 712 | 6941 | 706 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 9 | 400 | 0.054587388 | 600 | 751 | 7327.7 | 754 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 10 | 353 | 0.047592725 | 615 | 761 | 7417.1 | 754 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 11 | 392 | 0.052942209 | 629 | 759 | 7404.3 | 757 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 12 | 361 | 0.048542384 | 639 | 763 | 7436.8 | 760 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 13 | 328 | 0.044173299 | 638 | 761 | 7425.3 | 760 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 14 | 504 | 0.068270481 | 627 | 757 | 7382.4 | 757 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 15 | 1358 | 0.18365001 | 628 | 758 | 7394.5 | 758 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 16 | 1185 | 0.160610455 | 619 | 757 | 7378.1 | 758 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 17 | 972 | 0.132115479 | 610 | 754 | 7357.2 | 757 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 18 | 1090 | 0.147856755 | 611 | 756 | 7372 | 757 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 19 | 1179 | 0.159710651 | 620 | 757 | 7382.1 | 763 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 20 | 982 | 0.137708596 | 577 | 731 | 7131 | 741 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 21 | 506 | 0.087954111 | 431 | 590 | 5753 | 584 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 22 | 325 | 0.067737969 | 316 | 492 | 4797.9 | 467 |
| FL | Crystal River | 4 | 2013 | 9/16/2013 | 23 | 161 | 0.050446499 | 201 | 327 | 3191.5 | 284 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 0 | 135 | 0.050597804 | 184 | 273 | 2668.1 | 225 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 1 | 153 | 0.057607591 | 183 | 272 | 2655.9 | 225 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 2 | 139 | 0.051898592 | 187 | 274 | 2678.3 | 225 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 3 | 133 | 0.050184892 | 190 | 271 | 2650.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 4 | 235 | 0.077076979 | 213 | 312 | 3048.9 | 279 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 5 | 1155 | 0.194470636 | 380 | 609 | 5939.2 | 621 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 6 | 1094 | 0.159920478 | 533 | 701 | 6840.9 | 747 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 7 | 793 | 0.113967894 | 577 | 713 | 6958.1 | 762 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 8 | 741 | 0.105076574 | 578 | 723 | 7052 | 763 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 9 | 755 | 0.106578204 | 580 | 726 | 7084 | 762 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 10 | 848 | 0.118568233 | 593 | 733 | 7152 | 760 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 11 | 963 | 0.133213446 | 600 | 741 | 7229 | 762 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 12 | 998 | 0.135450597 | 604 | 756 | 7368 | 765 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 13 | 938 | 0.126907674 | 606 | 758 | 7391.2 | 763 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 14 | 809 | 0.108859465 | 624 | 762 | 7431.6 | 767 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 15 | 419 | 0.056396037 | 631 | 762 | 7429.6 | 766 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 16 | 313 | 0.04218272 | 630 | 761 | 7420.1 | 765 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 17 | 321 | 0.042996638 | 649 | 766 | 7465.7 | 767 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 18 | 328 | 0.043858476 | 635 | 767 | 7478.6 | 768 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 19 | 346 | 0.047305889 | 614 | 750 | 7314.1 | 759 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 20 | 323 | 0.045810404 | 578 | 723 | 7050.8 | 735 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 21 | 234 | 0.038818201 | 458 | 618 | 6028.1 | 614 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 22 | 186 | 0.034375058 | 378 | 555 | 5410.9 | 544 |
| FL | Crystal River | 4 | 2013 | 9/17/2013 | 23 | 75 | 0.020153706 | 267 | 381 | 3721.4 | 360 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 0 | 35 | 0.012816288 | 185 | 280 | 2730.9 | 239 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 1 | 33 | 0.012718724 | 176 | 266 | 2594.6 | 226 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 2 | 34 | 0.013210553 | 175 | 264 | 2573.7 | 225 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 3 | 39 | 0.015114522 | 185 | 264 | 2580.3 | 225 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 4 | 39 | 0.015129767 | 170 | 264 | 2577.7 | 226 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 5 | 63 | 0.023430527 | 180 | 275 | 2688.8 | 246 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 6 | 95 | 0.034803634 | 188 | 280 | 2729.6 | 251 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 7 | 134 | 0.047899911 | 190 | 287 | 2797.5 | 257 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 8 | 266 | 0.06879251 | 270 | 396 | 3866.7 | 381 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 9 | 433 | 0.077057232 | 376 | 576 | 5619.2 | 579 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 10 | 362 | 0.062728517 | 421 | 592 | 5770.9 | 582 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 11 | 358 | 0.060030854 | 423 | 611 | 5963.6 | 606 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 12 | 571 | 0.080771788 | 537 | 725 | 7069.3 | 740 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 13 | 731 | 0.100867933 | 623 | 743 | 7247.1 | 755 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 14 | 553 | 0.07690703 | 604 | 737 | 7190.5 | 750 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 15 | 964 | 0.133366537 | 585 | 741 | 7228.2 | 748 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 16 | 1446 | 0.201769319 | 580 | 735 | 7166.6 | 752 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 17 | 1390 | 0.193028746 | 655 | 738 | 7201 | 755 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 18 | 1267 | 0.174782729 | 608 | 743 | 7249 | 755 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 19 | 1279 | 0.180428005 | 595 | 727 | 7088.7 | 754 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 20 | 1047 | 0.163285039 | 513 | 657 | 6412.1 | 684 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 21 | 849 | 0.150858239 | 410 | 577 | 5627.8 | 590 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 22 | 852 | 0.158733116 | 397 | 550 | 5367.5 | 559 |
| FL | Crystal River | 4 | 2013 | 9/18/2013 | 23 | 478 | 0.108557413 | 308 | 451 | 4403.2 | 453 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 0 | 167 | 0.056426544 | 236 | 303 | 2959.6 | 279 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 1 | 149 | 0.060000805 | 213 | 254 | 2483.3 | 225 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 2 | 142 | 0.057930809 | 205 | 251 | 2451.2 | 225 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 3 | 127 | 0.052057714 | 204 | 250 | 2439.6 | 225 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 4 | 127 | 0.05126963 | 210 | 254 | 2477.1 | 226 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 5 | 276 | 0.086596386 | 255 | 327 | 3187.2 | 319 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 6 | 291 | 0.082557876 | 257 | 361 | 3524.8 | 355 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 7 | 375 | 0.096013519 | 285 | 400 | 3905.7 | 398 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 8 | 1009 | 0.179167555 | 399 | 577 | 5631.6 | 601 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 9 | 1283 | 0.18489163 | 569 | 712 | 6939.2 | 750 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 10 | 895 | 0.125799424 | 604 | 729 | 7114.5 | 754 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 11 | 1021 | 0.139442775 | 622 | 751 | 7322 | 753 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 12 | 1187 | 0.161239931 | 640 | 755 | 7361.7 | 751 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 13 | 1201 | 0.163439163 | 632 | 753 | 7348.3 | 750 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 14 | 947 | 0.127689984 | 630 | 760 | 7416.4 | 749 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 15 | 859 | 0.11586032 | 630 | 760 | 7414.1 | 750 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 16 | 1146 | 0.154102681 | 632 | 763 | 7436.6 | 751 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 17 | 1145 | 0.152018056 | 632 | 772 | 7532 | 756 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 18 | 896 | 0.119487378 | 644 | 769 | 7498.7 | 756 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 19 | 817 | 0.109209999 | 628 | 767 | 7481 | 756 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 20 | 748 | 0.104939744 | 570 | 731 | 7127.9 | 724 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 21 | 654 | 0.103430279 | 467 | 648 | 6323.1 | 634 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 22 | 560 | 0.102072435 | 384 | 562 | 5486.3 | 536 |
| FL | Crystal River | 4 | 2013 | 9/19/2013 | 23 | 241 | 0.06262831 | 269 | 394 | 3848.1 | 343 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 0 | 129 | 0.045647558 | 203 | 290 | 2826 | 238 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 1 | 150 | 0.054261323 | 201 | 283 | 2764.4 | 227 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 2 | 144 | 0.052417006 | 195 | 281 | 2747.2 | 227 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 3 | 144 | 0.052783989 | 201 | 279 | 2728.1 | 227 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 4 | 144 | 0.052836281 | 199 | 279 | 2725.4 | 227 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 5 | 177 | 0.058718153 | 214 | 309 | 3014.4 | 262 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 6 | 308 | 0.080101948 | 257 | 394 | 3845.1 | 355 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 7 | 251 | 0.064851178 | 282 | 397 | 3870.4 | 359 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 8 | 339 | 0.075504477 | 282 | 460 | 4489.8 | 433 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 9 | 894 | 0.138707876 | 483 | 661 | 6445.2 | 649 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 10 | 1083 | 0.146027722 | 630 | 760 | 7416.4 | 761 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 11 | 919 | 0.124791223 | 567 | 755 | 7364.3 | 765 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 12 | 774 | 0.103517454 | 672 | 767 | 7477 | 765 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 13 | 824 | 0.110848041 | 691 | 762 | 7433.6 | 763 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 14 | 1080 | 0.144013441 | 674 | 769 | 7499.3 | 763 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 15 | 992 | 0.13222083 | 675 | 769 | 7502.6 | 763 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 16 | 499 | 0.065858069 | 712 | 777 | 7576.9 | 765 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 17 | 403 | 0.053502204 | 715 | 772 | 7532.4 | 762 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 18 | 370 | 0.048924973 | 741 | 775 | 7562.6 | 768 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 19 | 403 | 0.053541299 | 722 | 772 | 7526.9 | 764 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 20 | 698 | 0.093957383 | 698 | 762 | 7428.9 | 762 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 21 | 885 | 0.124899445 | 623 | 727 | 7085.7 | 730 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 22 | 726 | 0.116351748 | 492 | 640 | 6239.7 | 627 |
| FL | Crystal River | 4 | 2013 | 9/20/2013 | 23 | 414 | 0.079526682 | 385 | 534 | 5205.8 | 505 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 0 | 263 | 0.065541904 | 284 | 411 | 4012.7 | 373 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 1 | 130 | 0.047816971 | 206 | 278 | 2718.7 | 230 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 2 | 163 | 0.060545279 | 196 | 276 | 2692.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 3 | 142 | 0.052967287 | 198 | 275 | 2680.9 | 226 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 4 | 133 | 0.049549214 | 212 | 275 | 2684.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 5 | 120 | 0.045539069 | 189 | 270 | 2635.1 | 226 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 6 | 164 | 0.062590642 | 193 | 268 | 2620.2 | 225 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 7 | 247 | 0.080359176 | 230 | 315 | 3073.7 | 278 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 8 | 686 | 0.137546617 | 359 | 511 | 4987.4 | 490 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 9 | 1210 | 0.172389229 | 568 | 720 | 7019 | 710 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 10 | 994 | 0.133042442 | 650 | 766 | 7471.3 | 763 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 11 | 962 | 0.128302591 | 674 | 769 | 7497.9 | 765 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 12 | 1102 | 0.146690805 | 668 | 770 | 7512.4 | 764 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 13 | 1177 | 0.157033835 | 689 | 769 | 7495.2 | 764 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 14 | 1128 | 0.149958123 | 677 | 771 | 7522.1 | 764 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 15 | 1123 | 0.148501759 | 665 | 775 | 7562.2 | 764 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 16 | 1072 | 0.14199804 | 656 | 774 | 7549.4 | 763 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 17 | 1036 | 0.137868626 | 638 | 771 | 7514.4 | 764 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 18 | 1091 | 0.14522076 | 646 | 770 | 7512.7 | 764 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 19 | 1106 | 0.147561106 | 644 | 769 | 7495.2 | 760 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 20 | 995 | 0.140140845 | 596 | 728 | 7100 | 716 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 21 | 844 | 0.129144798 | 503 | 670 | 6535.3 | 646 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 22 | 813 | 0.136379649 | 447 | 611 | 5961.3 | 577 |
| FL | Crystal River | 4 | 2013 | 9/21/2013 | 23 | 533 | 0.110863823 | 312 | 493 | 4807.7 | 446 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 0 | 425 | 0.119866877 | 251 | 363 | 3545.6 | 306 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 1 | 193 | 0.068903963 | 218 | 287 | 2801 | 226 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 2 | 165 | 0.059993455 | 206 | 282 | 2750.3 | 226 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 3 | 173 | 0.062991553 | 206 | 281 | 2746.4 | 226 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 4 | 169 | 0.061936524 | 207 | 280 | 2728.6 | 226 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 5 | 158 | 0.058481697 | 202 | 277 | 2701.7 | 226 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 6 | 170 | 0.060442295 | 210 | 288 | 2812.6 | 238 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 7 | 483 | 0.100982647 | 363 | 490 | 4783 | 470 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 8 | 1074 | 0.147218072 | 620 | 748 | 7295.3 | 758 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 9 | 790 | 0.106268496 | 639 | 762 | 7434 | 764 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 10 | 677 | 0.090122471 | 676 | 770 | 7512 | 764 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 11 | 584 | 0.077395073 | 679 | 774 | 7545.7 | 762 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 12 | 836 | 0.111799083 | 702 | 767 | 7477.7 | 757 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 13 | 965 | 0.129781053 | 691 | 762 | 7435.6 | 759 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 14 | 592 | 0.082539771 | 638 | 735 | 7172.3 | 728 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 15 | 594 | 0.080048514 | 682 | 761 | 7420.5 | 761 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 16 | 954 | 0.127780978 | 671 | 766 | 7465.9 | 756 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 17 | 994 | 0.132452096 | 667 | 770 | 7504.6 | 761 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 18 | 822 | 0.109375416 | 668 | 771 | 7515.4 | 764 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 19 | 819 | 0.108751942 | 655 | 772 | 7530.9 | 766 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 20 | 873 | 0.116271326 | 660 | 770 | 7508.3 | 765 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 21 | 915 | 0.12156399 | 647 | 772 | 7526.9 | 766 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 22 | 679 | 0.106309692 | 498 | 655 | 6387 | 635 |
| FL | Crystal River | 4 | 2013 | 9/22/2013 | 23 | 514 | 0.095720511 | 375 | 550 | 5369.8 | 512 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 0 | 568 | 0.127477164 | 320 | 457 | 4455.7 | 415 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 1 | 302 | 0.09001222 | 268 | 344 | 3355.1 | 297 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 2 | 202 | 0.072222818 | 246 | 287 | 2796.9 | 227 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 3 | 201 | 0.074315081 | 229 | 277 | 2704.7 | 227 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 4 | 219 | 0.077077394 | 233 | 291 | 2841.3 | 244 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 5 | 731 | 0.162166959 | 320 | 462 | 4507.7 | 442 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 6 | 1029 | 0.177913792 | 404 | 593 | 5783.7 | 582 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 7 | 830 | 0.142123288 | 449 | 599 | 5840 | 587 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 8 | 1008 | 0.14662458 | 556 | 705 | 6874.7 | 706 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 9 | 908 | 0.124286516 | 621 | 749 | 7305.7 | 754 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 10 | 834 | 0.114640751 | 647 | 746 | 7274.9 | 758 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 11 | 841 | 0.114111262 | 641 | 756 | 7370 | 761 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 12 | 933 | 0.126640696 | 641 | 755 | 7367.3 | 758 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 13 | 1003 | 0.13617911 | 648 | 755 | 7365.3 | 759 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 14 | 993 | 0.136839059 | 624 | 744 | 7256.7 | 760 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 15 | 967 | 0.132044297 | 637 | 751 | 7323.3 | 765 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 16 | 993 | 0.135841313 | 628 | 750 | 7310 | 763 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 17 | 1320 | 0.180394408 | 629 | 750 | 7317.3 | 762 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 18 | 1461 | 0.199516572 | 629 | 751 | 7322.7 | 762 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 19 | 1233 | 0.167625107 | 632 | 754 | 7355.7 | 763 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 20 | 1011 | 0.140099497 | 613 | 740 | 7216.3 | 752 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 21 | 766 | 0.122456157 | 487 | 641 | 6255.3 | 642 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 22 | 740 | 0.135201798 | 388 | 561 | 5473.3 | 545 |
| FL | Crystal River | 4 | 2013 | 9/23/2013 | 23 | 847 | 0.182937365 | 314 | 475 | 4630 | 451 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 0 | 569 | 0.139505235 | 273 | 418 | 4078.7 | 387 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 1 | 216 | 0.074380165 | 220 | 298 | 2904 | 260 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 2 | 210 | 0.079984765 | 202 | 269 | 2625.5 | 226 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 3 | 202 | 0.077394636 | 201 | 267 | 2610 | 226 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 4 | 320 | 0.106298166 | 240 | 308 | 3010.4 | 275 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 5 | 1123 | 0.220906444 | 335 | 521 | 5083.6 | 515 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 6 | 1228 | 0.178938319 | 521 | 704 | 6862.7 | 697 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 7 | 1108 | 0.152024478 | 604 | 747 | 7288.3 | 742 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 8 | 851 | 0.115840627 | 646 | 753 | 7346.3 | 765 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 9 | 759 | 0.103317316 | 646 | 753 | 7346.3 | 764 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 10 | 784 | 0.108357635 | 651 | 742 | 7235.3 | 765 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 11 | 834 | 0.116183497 | 646 | 736 | 7178.3 | 761 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 12 | 981 | 0.135315944 | 638 | 743 | 7249.7 | 762 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 13 | 1060 | 0.146936512 | 649 | 740 | 7214 | 762 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 14 | 915 | 0.127277786 | 639 | 737 | 7189 | 765 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 15 | 821 | 0.113496551 | 636 | 742 | 7233.7 | 764 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 16 | 783 | 0.108715272 | 641 | 739 | 7202.3 | 761 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 17 | 789 | 0.111053246 | 632 | 728 | 7104.7 | 762 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 18 | 777 | 0.111006343 | 623 | 718 | 6999.6 | 763 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 19 | 729 | 0.104646656 | 613 | 714 | 6966.3 | 759 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 20 | 768 | 0.110154905 | 613 | 715 | 6972 | 763 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 21 | 867 | 0.124224492 | 614 | 716 | 6979.3 | 762 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 22 | 975 | 0.139106863 | 609 | 719 | 7009 | 764 |
| FL | Crystal River | 4 | 2013 | 9/24/2013 | 23 | 772 | 0.119689922 | 522 | 661 | 6450 | 692 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 0 | 433 | 0.083539126 | 393 | 531 | 5183.2 | 531 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 1 | 705 | 0.146247355 | 298 | 494 | 4820.6 | 387 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 2 | 610 | 0.146167302 | 279 | 428 | 4173.3 | 267 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 3 | 569 | 0.146174793 | 284 | 399 | 3892.6 | 236 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 4 | 626 | 0.14621727 | 286 | 439 | 4281.3 | 292 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 5 | 811 | 0.146305383 | 376 | 568 | 5543.2 | 585 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 6 | 973 | 0.146265202 | 532 | 682 | 6652.3 | 754 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 7 | 966 | 0.146208567 | 528 | 677 | 6607 | 752 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 8 | 1409 | 0.206093583 | 553 | 701 | 6836.7 | 755 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 9 | 901 | 0.142122531 | 526 | 650 | 6339.6 | 704 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 10 | 482 | 0.089269178 | 415 | 554 | 5399.4 | 588 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 11 | 475 | 0.078620256 | 477 | 619 | 6041.7 | 654 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 12 | 631 | 0.09081358 | 611 | 712 | 6948.3 | 763 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 13 | 909 | 0.131079931 | 610 | 711 | 6934.7 | 760 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 14 | 1039 | 0.149403966 | 612 | 713 | 6954.3 | 753 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 15 | 901 | 0.128763952 | 601 | 717 | 6997.3 | 757 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 16 | 765 | 0.108055426 | 630 | 726 | 7079.7 | 760 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 17 | 690 | 0.097650722 | 635 | 725 | 7066 | 763 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 18 | 616 | 0.087416805 | 627 | 723 | 7046.7 | 762 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 19 | 645 | 0.09165447 | 640 | 722 | 7037.3 | 762 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 20 | 928 | 0.130801866 | 638 | 727 | 7094.7 | 760 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 21 | 1043 | 0.14728934 | 609 | 726 | 7081.3 | 757 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 22 | 927 | 0.131141511 | 615 | 725 | 7068.7 | 751 |
| FL | Crystal River | 4 | 2013 | 9/25/2013 | 23 | 490 | 0.090139809 | 424 | 557 | 5436 | 564 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 0 | 143 | 0.042807963 | 257 | 342 | 3340.5 | 305 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 1 | 474 | 0.129571921 | 267 | 375 | 3658.2 | 225 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 2 | 471 | 0.129342304 | 265 | 373 | 3641.5 | 226 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 3 | 466 | 0.129383347 | 262 | 369 | 3601.7 | 226 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 4 | 471 | 0.129413381 | 265 | 373 | 3639.5 | 231 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 5 | 551 | 0.129415633 | 259 | 436 | 4257.6 | 411 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 6 | 590 | 0.129516618 | 277 | 467 | 4555.4 | 476 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 7 | 728 | 0.129581175 | 421 | 576 | 5618.1 | 653 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 8 | 812 | 0.129458094 | 508 | 643 | 6272.3 | 759 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 9 | 1401 | 0.19313216 | 623 | 744 | 7254.1 | 762 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 10 | 1212 | 0.164243221 | 664 | 757 | 7379.3 | 764 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 11 | 896 | 0.121315515 | 686 | 757 | 7385.7 | 766 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 12 | 810 | 0.110144139 | 647 | 754 | 7354 | 759 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 13 | 945 | 0.12714772 | 676 | 762 | 7432.3 | 760 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 14 | 1675 | 0.228534785 | 667 | 752 | 7329.3 | 760 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 15 | 1654 | 0.22464585 | 655 | 755 | 7362.7 | 763 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 16 | 1451 | 0.197902317 | 652 | 752 | 7331.9 | 763 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 17 | 1119 | 0.151210086 | 651 | 759 | 7400.3 | 761 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 18 | 966 | 0.130183416 | 638 | 761 | 7420.3 | 757 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 19 | 1077 | 0.145442269 | 644 | 759 | 7405 | 758 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 20 | 1144 | 0.159493636 | 602 | 735 | 7172.7 | 736 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 21 | 763 | 0.129024621 | 449 | 606 | 5913.6 | 578 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 22 | 396 | 0.088537125 | 317 | 458 | 4472.7 | 412 |
| FL | Crystal River | 4 | 2013 | 9/26/2013 | 23 | 167 | 0.055002964 | 206 | 311 | 3036.2 | 251 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 0 | 175 | 0.061569855 | 193 | 291 | 2842.3 | 226 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 1 | 140 | 0.057442967 | 160 | 250 | 2437.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 2 | 121 | 0.050324405 | 168 | 246 | 2404.4 | 226 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 3 | 111 | 0.046476573 | 152 | 245 | 2388.3 | 226 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 4 | 112 | 0.046421022 | 156 | 247 | 2412.7 | 225 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 5 | 129 | 0.051121503 | 166 | 258 | 2523.4 | 243 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 6 | 171 | 0.061178491 | 190 | 286 | 2795.1 | 253 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 7 | 213 | 0.06926604 | 215 | 315 | 3075.1 | 263 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 8 | 165 | 0.053311793 | 207 | 317 | 3095 | 283 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 9 | 316 | 0.081962961 | 258 | 395 | 3855.4 | 340 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 10 | 462 | 0.096656764 | 325 | 490 | 4779.8 | 447 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 11 | 629 | 0.111191642 | 373 | 580 | 5656.9 | 538 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 12 | 850 | 0.128433713 | 476 | 679 | 6618.2 | 645 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 13 | 850 | 0.120709488 | 556 | 722 | 7041.7 | 699 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 14 | 847 | 0.112995104 | 637 | 769 | 7495.9 | 762 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 15 | 821 | 0.109403942 | 652 | 769 | 7504.3 | 761 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 16 | 846 | 0.112694818 | 660 | 770 | 7507 | 763 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 17 | 800 | 0.110287022 | 616 | 744 | 7253.8 | 730 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 18 | 665 | 0.102547496 | 499 | 665 | 6484.8 | 638 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 19 | 616 | 0.101519496 | 442 | 622 | 6067.8 | 593 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 20 | 456 | 0.086895211 | 372 | 538 | 5247.7 | 503 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 21 | 430 | 0.088163533 | 351 | 500 | 4877.3 | 457 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 22 | 301 | 0.072018184 | 305 | 428 | 4179.5 | 379 |
| FL | Crystal River | 4 | 2013 | 9/27/2013 | 23 | 154 | 0.049246906 | 222 | 320 | 3127.1 | 264 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 0 | 125 | 0.044748335 | 190 | 286 | 2793.4 | 227 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 1 | 141 | 0.05070848 | 189 | 285 | 2780.6 | 225 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 2 | 145 | 0.051405679 | 194 | 289 | 2820.7 | 226 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 3 | 118 | 0.041960031 | 191 | 288 | 2812.2 | 227 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 4 | 118 | 0.042391148 | 194 | 285 | 2783.6 | 226 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 5 | 114 | 0.041853293 | 187 | 279 | 2723.8 | 227 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 6 | 151 | 0.055315408 | 182 | 280 | 2729.8 | 226 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 7 | 167 | 0.056635127 | 203 | 302 | 2948.7 | 254 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 8 | 300 | 0.075774797 | 269 | 406 | 3959.1 | 357 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 9 | 548 | 0.103972982 | 379 | 540 | 5270.6 | 489 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 10 | 783 | 0.127939086 | 452 | 627 | 6120.1 | 609 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 11 | 971 | 0.131529042 | 583 | 757 | 7382.4 | 710 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 12 | 912 | 0.122402963 | 640 | 764 | 7450.8 | 762 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 13 | 942 | 0.124688939 | 672 | 775 | 7554.8 | 762 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 14 | 946 | 0.125016519 | 681 | 776 | 7567 | 762 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 15 | 980 | 0.12977726 | 679 | 774 | 7551.4 | 762 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 16 | 1116 | 0.147648343 | 672 | 775 | 7558.5 | 764 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 17 | 854 | 0.127825176 | 534 | 685 | 6681 | 669 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 18 | 773 | 0.12554204 | 468 | 631 | 6157.3 | 610 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 19 | 919 | 0.150313221 | 440 | 627 | 6113.9 | 601 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 20 | 666 | 0.12419812 | 375 | 550 | 5362.4 | 515 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 21 | 581 | 0.119020793 | 312 | 500 | 4881.5 | 462 |

| | | | | | | | | | | | |
|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 22 | 665 | 0.13915045 | 320 | 490 | 4779 | 447 |
| FL | Crystal River | 4 | 2013 | 9/28/2013 | 23 | 271 | 0.075198402 | 237 | 369 | 3603.8 | 315 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 0 | 156 | 0.055393793 | 197 | 288 | 2816.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 1 | 177 | 0.062969156 | 188 | 288 | 2810.9 | 226 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 2 | 158 | 0.056744721 | 189 | 285 | 2784.4 | 226 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 3 | 149 | 0.053096714 | 196 | 287 | 2806.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 4 | 152 | 0.053973439 | 194 | 288 | 2816.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 5 | 150 | 0.053456878 | 204 | 287 | 2806 | 226 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 6 | 183 | 0.065343141 | 193 | 287 | 2800.6 | 226 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 7 | 259 | 0.079004362 | 219 | 336 | 3278.3 | 283 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 8 | 474 | 0.099659392 | 304 | 488 | 4756.2 | 451 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 9 | 714 | 0.120604034 | 414 | 607 | 5920.2 | 583 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 10 | 832 | 0.123100596 | 540 | 693 | 6758.7 | 671 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 11 | 1110 | 0.145305075 | 657 | 783 | 7639.1 | 765 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 12 | 1112 | 0.14586476 | 670 | 782 | 7623.5 | 767 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 13 | 1130 | 0.147915439 | 687 | 783 | 7639.5 | 765 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 14 | 1149 | 0.149962803 | 704 | 786 | 7661.9 | 768 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 15 | 1171 | 0.153475144 | 679 | 782 | 7629.9 | 767 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 16 | 1193 | 0.155849924 | 696 | 785 | 7654.8 | 766 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 17 | 1191 | 0.155845175 | 657 | 784 | 7642.2 | 762 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 18 | 1160 | 0.151667691 | 634 | 784 | 7648.3 | 761 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 19 | 1153 | 0.150752455 | 634 | 784 | 7648.3 | 763 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 20 | 764 | 0.11848819 | 483 | 661 | 6447.9 | 625 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 21 | 476 | 0.089215429 | 346 | 547 | 5335.4 | 499 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 22 | 499 | 0.100546052 | 302 | 509 | 4962.9 | 455 |
| FL | Crystal River | 4 | 2013 | 9/29/2013 | 23 | 251 | 0.074203276 | 209 | 347 | 3382.6 | 283 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 0 | 178 | 0.062561507 | 184 | 291 | 2845.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 1 | 168 | 0.059303188 | 187 | 290 | 2832.9 | 226 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 2 | 158 | 0.05624377 | 199 | 288 | 2809.2 | 226 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 3 | 131 | 0.046534759 | 185 | 288 | 2815.1 | 226 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 4 | 151 | 0.052928599 | 188 | 292 | 2852.9 | 226 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 5 | 250 | 0.074742884 | 217 | 343 | 3344.8 | 283 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 6 | 378 | 0.095997562 | 259 | 404 | 3937.6 | 350 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 7 | 382 | 0.089131551 | 278 | 439 | 4285.8 | 390 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 8 | 563 | 0.118776371 | 293 | 486 | 4740 | 441 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 9 | 1402 | 0.227188022 | 432 | 633 | 6171.1 | 584 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 10 | 1383 | 0.192315715 | 560 | 737 | 7191.3 | 704 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 11 | 1366 | 0.179524248 | 639 | 780 | 7609 | 765 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 12 | 1237 | 0.162348741 | 662 | 781 | 7619.4 | 762 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 13 | 1148 | 0.150169398 | 665 | 784 | 7644.7 | 760 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 14 | 969 | 0.12599961 | 661 | 789 | 7690.5 | 763 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 15 | 468 | 0.061119745 | 673 | 785 | 7657.1 | 764 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 16 | 423 | 0.054957191 | 677 | 789 | 7696.9 | 763 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 17 | 670 | 0.087484494 | 673 | 785 | 7658.5 | 763 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 18 | 1492 | 0.195160235 | 665 | 784 | 7645 | 761 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 19 | 1334 | 0.175380934 | 654 | 780 | 7606.3 | 760 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 20 | 828 | 0.128467697 | 489 | 661 | 6445.2 | 627 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 21 | 778 | 0.130246263 | 412 | 612 | 5973.3 | 571 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 22 | 484 | 0.10418909 | 297 | 476 | 4645.4 | 423 |
| FL | Crystal River | 4 | 2013 | 9/30/2013 | 23 | 172 | 0.05738498 | 203 | 307 | 2997.3 | 238 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 0 | 208 | 0.072990139 | 196 | 292 | 2849.7 | 226 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 1 | 199 | 0.069731586 | 185 | 292 | 2853.8 | 226 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 2 | 192 | 0.06806821 | 183 | 289 | 2820.7 | 226 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 3 | 189 | 0.066701959 | 189 | 290 | 2833.5 | 225 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 4 | 202 | 0.070405354 | 192 | 294 | 2869.1 | 226 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 5 | 198 | 0.069779736 | 190 | 291 | 2837.5 | 226 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 6 | 230 | 0.081967213 | 190 | 287 | 2806 | 226 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 7 | 392 | 0.112121732 | 237 | 358 | 3496.2 | 303 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 8 | 1074 | 0.198837338 | 367 | 554 | 5401.4 | 508 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 9 | 1410 | 0.201563907 | 524 | 717 | 6995.3 | 694 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 10 | 1123 | 0.150268288 | 605 | 766 | 7473.3 | 761 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 11 | 1016 | 0.134109479 | 621 | 777 | 7575.9 | 765 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 12 | 1135 | 0.149985464 | 650 | 776 | 7567.4 | 765 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 13 | 1305 | 0.172427462 | 666 | 776 | 7568.4 | 764 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 14 | 1290 | 0.169260241 | 670 | 782 | 7621.4 | 765 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 15 | 1197 | 0.155826911 | 676 | 788 | 7681.6 | 764 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 16 | 1200 | 0.154567469 | 659 | 796 | 7763.6 | 762 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 17 | 1120 | 0.144389439 | 667 | 795 | 7756.8 | 766 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 18 | 1131 | 0.14646275 | 664 | 792 | 7722.1 | 766 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 19 | 1180 | 0.15315327 | 654 | 790 | 7704.7 | 765 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 20 | 976 | 0.141271151 | 538 | 708 | 6908.7 | 677 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 21 | 705 | 0.119372153 | 419 | 605 | 5905.9 | 559 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 22 | 583 | 0.108872248 | 369 | 549 | 5354.9 | 495 |
| FL | Crystal River | 4 | 2013 | 10/1/2013 | 23 | 493 | 0.108444601 | 313 | 466 | 4546.1 | 405 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 0 | 389 | 0.098115873 | 265 | 406 | 3964.7 | 345 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 1 | 221 | 0.069947777 | 221 | 324 | 3159.5 | 256 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 2 | 192 | 0.066789578 | 207 | 294 | 2874.7 | 228 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 3 | 216 | 0.07531906 | 206 | 294 | 2867.8 | 226 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 4 | 202 | 0.070134018 | 210 | 295 | 2880.2 | 225 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 5 | 206 | 0.070144375 | 217 | 301 | 2936.8 | 235 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 6 | 276 | 0.089459354 | 225 | 316 | 3085.2 | 253 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 7 | 298 | 0.091593668 | 253 | 333 | 3253.5 | 276 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 8 | 734 | 0.159717991 | 321 | 471 | 4595.6 | 421 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 9 | 1223 | 0.198037438 | 426 | 633 | 6175.6 | 597 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 10 | 1306 | 0.17956086 | 531 | 746 | 7273.3 | 716 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 11 | 1533 | 0.199425011 | 591 | 788 | 7687.1 | 764 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 12 | 1651 | 0.214719538 | 622 | 788 | 7689.1 | 761 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 13 | 1744 | 0.227881512 | 673 | 785 | 7653.1 | 764 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 14 | 1607 | 0.208201075 | 748 | 791 | 7718.5 | 764 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 15 | 1099 | 0.142379645 | 679 | 792 | 7718.8 | 763 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 16 | 973 | 0.127354354 | 649 | 783 | 7640.1 | 762 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 17 | 1127 | 0.147227883 | 650 | 785 | 7654.8 | 763 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 18 | 1303 | 0.170402532 | 650 | 784 | 7646.6 | 762 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 19 | 1156 | 0.150554159 | 645 | 787 | 7678.3 | 765 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 20 | 914 | 0.129086929 | 559 | 726 | 7080.5 | 698 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 21 | 933 | 0.140357739 | 498 | 682 | 6647.3 | 646 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 22 | 725 | 0.1298027 | 391 | 573 | 5585.4 | 523 |
| FL | Crystal River | 4 | 2013 | 10/2/2013 | 23 | 336 | 0.08142691 | 276 | 423 | 4126.4 | 364 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 0 | 167 | 0.056434171 | 213 | 303 | 2959.2 | 236 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 1 | 183 | 0.064208273 | 202 | 292 | 2850.1 | 226 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 2 | 145 | 0.051153602 | 204 | 290 | 2834.6 | 226 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 3 | 131 | 0.04659103 | 210 | 288 | 2811.7 | 226 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 4 | 123 | 0.043265679 | 221 | 291 | 2842.9 | 226 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 5 | 126 | 0.044795222 | 216 | 288 | 2812.8 | 226 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 6 | 150 | 0.053842564 | 217 | 285 | 2785.9 | 226 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 7 | 148 | 0.048633018 | 240 | 312 | 3043.2 | 252 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 8 | 249 | 0.068346509 | 284 | 373 | 3643.2 | 322 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 9 | 982 | 0.158025168 | 428 | 637 | 6214.2 | 588 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 10 | 1197 | 0.160228094 | 605 | 766 | 7470.6 | 725 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 11 | 1010 | 0.131716223 | 621 | 786 | 7668 | 760 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 12 | 899 | 0.117151867 | 644 | 787 | 7673.8 | 765 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 13 | 1136 | 0.150751101 | 640 | 773 | 7535.6 | 764 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 14 | 1223 | 0.1622963 | 663 | 773 | 7535.6 | 765 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 15 | 1188 | 0.154057629 | 670 | 791 | 7711.4 | 762 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 16 | 1113 | 0.144603672 | 669 | 789 | 7696.9 | 762 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 17 | 1102 | 0.142794205 | 663 | 791 | 7717.4 | 764 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 18 | 1210 | 0.155795329 | 675 | 796 | 7766.6 | 766 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 19 | 1211 | 0.160337888 | 611 | 774 | 7552.8 | 741 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 20 | 928 | 0.137626244 | 512 | 691 | 6742.9 | 654 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 21 | 731 | 0.123519373 | 426 | 607 | 5918.1 | 555 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 22 | 431 | 0.0952402 | 334 | 464 | 4525.4 | 399 |
| FL | Crystal River | 4 | 2013 | 10/3/2013 | 23 | 263 | 0.07805544 | 239 | 345 | 3369.4 | 274 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 0 | 265 | 0.08419648 | 236 | 322 | 3147.4 | 251 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 1 | 242 | 0.075957313 | 245 | 326 | 3186 | 251 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 2 | 245 | 0.077990705 | 248 | 322 | 3141.4 | 251 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 3 | 236 | 0.075109004 | 263 | 322 | 3142.1 | 251 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 4 | 203 | 0.064629099 | 235 | 322 | 3141 | 251 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 5 | 226 | 0.069022386 | 245 | 335 | 3274.3 | 264 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 6 | 404 | 0.10036519 | 305 | 413 | 4025.3 | 344 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 7 | 453 | 0.097973484 | 332 | 474 | 4623.7 | 410 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 8 | 772 | 0.136318689 | 385 | 581 | 5663.2 | 527 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 9 | 1213 | 0.175662173 | 517 | 708 | 6905.3 | 661 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 10 | 1391 | 0.179513983 | 627 | 795 | 7748.7 | 760 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 11 | 1120 | 0.144294567 | 644 | 796 | 7761.9 | 765 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 12 | 1115 | 0.143694826 | 682 | 796 | 7759.5 | 764 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 13 | 1245 | 0.160525026 | 682 | 795 | 7755.8 | 763 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 14 | 1342 | 0.172695569 | 683 | 797 | 7770.9 | 763 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 15 | 1303 | 0.167371004 | 677 | 798 | 7785.1 | 764 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 16 | 1231 | 0.158824364 | 658 | 795 | 7750.7 | 760 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 17 | 1164 | 0.150558775 | 649 | 793 | 7731.2 | 761 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 18 | 1111 | 0.143079756 | 660 | 796 | 7764.9 | 762 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 19 | 1081 | 0.13959735 | 650 | 794 | 7743.7 | 762 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 20 | 995 | 0.13455947 | 599 | 758 | 7394.5 | 720 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 21 | 709 | 0.11510114 | 449 | 632 | 6159.8 | 580 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 22 | 534 | 0.100093721 | 373 | 547 | 5335 | 479 |
| FL | Crystal River | 4 | 2013 | 10/4/2013 | 23 | 160 | 0.047788298 | 227 | 343 | 3348.1 | 274 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 0 | 150 | 0.050585101 | 207 | 304 | 2965.3 | 227 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 1 | 164 | 0.055381083 | 210 | 303 | 2961.3 | 226 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 2 | 147 | 0.049932065 | 214 | 302 | 2944 | 226 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 3 | 135 | 0.045923053 | 238 | 301 | 2939.7 | 226 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 4 | 177 | 0.060010171 | 221 | 302 | 2949.5 | 225 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 5 | 209 | 0.071853405 | 221 | 298 | 2908.7 | 226 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 6 | 211 | 0.071634697 | 223 | 302 | 2945.5 | 226 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 7 | 223 | 0.070386971 | 237 | 325 | 3168.2 | 252 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 8 | 613 | 0.134074058 | 324 | 469 | 4572.1 | 407 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 9 | 953 | 0.155158659 | 423 | 630 | 6142.1 | 579 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 10 | 797 | 0.111676265 | 521 | 732 | 7136.7 | 683 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 11 | 852 | 0.110024923 | 627 | 794 | 7743.7 | 761 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 12 | 1018 | 0.130309004 | 656 | 801 | 7812.2 | 762 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 13 | 1283 | 0.163980522 | 665 | 802 | 7824.1 | 762 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 14 | 1368 | 0.174875682 | 664 | 802 | 7822.7 | 762 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 15 | 1256 | 0.161344192 | 653 | 798 | 7784.6 | 762 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 16 | 1241 | 0.159304759 | 662 | 799 | 7790.1 | 763 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 17 | 1433 | 0.184161826 | 661 | 798 | 7781.2 | 763 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 18 | 1611 | 0.207354588 | 660 | 797 | 7769.3 | 764 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 19 | 1020 | 0.130621863 | 655 | 801 | 7808.8 | 763 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 20 | 618 | 0.094414569 | 484 | 671 | 6545.6 | 628 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 21 | 647 | 0.109860255 | 412 | 604 | 5889.3 | 554 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 22 | 602 | 0.130645196 | 331 | 472 | 4607.9 | 408 |
| FL | Crystal River | 4 | 2013 | 10/5/2013 | 23 | 192 | 0.057817393 | 219 | 340 | 3320.8 | 269 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 0 | 134 | 0.045668325 | 208 | 301 | 2934.2 | 226 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 1 | 142 | 0.048725251 | 212 | 299 | 2914.3 | 226 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 2 | 139 | 0.047792601 | 218 | 298 | 2908.4 | 226 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 3 | 134 | 0.046468079 | 236 | 295 | 2883.7 | 226 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 4 | 126 | 0.042854228 | 217 | 301 | 2940.2 | 226 |

| | | | | | | | | | | | |
|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 5 | 161 | 0.051280418 | 222 | 322 | 3139.6 | 250 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 6 | 199 | 0.062407878 | 236 | 327 | 3188.7 | 253 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 7 | 187 | 0.057160324 | 245 | 335 | 3271.5 | 268 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 8 | 454 | 0.100420261 | 334 | 463 | 4521 | 404 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 9 | 878 | 0.124857793 | 534 | 721 | 7032 | 684 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 10 | 855 | 0.110585131 | 641 | 793 | 7731.6 | 761 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 11 | 874 | 0.113581723 | 654 | 789 | 7694.9 | 763 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 12 | 1035 | 0.135143958 | 658 | 785 | 7658.5 | 761 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 13 | 1217 | 0.157591454 | 679 | 792 | 7722.5 | 760 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 14 | 1125 | 0.14526063 | 658 | 794 | 7744.7 | 763 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 15 | 1071 | 0.138402492 | 657 | 793 | 7738.3 | 764 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 16 | 1057 | 0.136575659 | 657 | 794 | 7739.3 | 763 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 17 | 1117 | 0.144291011 | 650 | 794 | 7741.3 | 765 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 18 | 1182 | 0.151375442 | 655 | 801 | 7808.4 | 763 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 19 | 1161 | 0.15229625 | 625 | 782 | 7623.3 | 748 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 20 | 707 | 0.115372063 | 441 | 628 | 6128 | 577 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 21 | 379 | 0.082545629 | 312 | 471 | 4591.4 | 408 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 22 | 476 | 0.116852829 | 285 | 417 | 4073.5 | 353 |
| FL | Crystal River | 4 | 2013 | 10/6/2013 | 23 | 243 | 0.077408257 | 222 | 322 | 3139.2 | 246 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 0 | 132 | 0.045085047 | 228 | 300 | 2927.8 | 226 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 1 | 126 | 0.043099025 | 228 | 300 | 2923.5 | 226 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 2 | 134 | 0.045855862 | 230 | 299 | 2922.2 | 225 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 3 | 134 | 0.045954937 | 207 | 299 | 2915.9 | 225 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 4 | 144 | 0.049321825 | 219 | 299 | 2919.6 | 225 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 5 | 234 | 0.071502781 | 248 | 335 | 3272.6 | 272 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 6 | 569 | 0.115448606 | 330 | 505 | 4928.6 | 447 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 7 | 500 | 0.094802905 | 363 | 541 | 5274.1 | 492 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 8 | 603 | 0.100917124 | 406 | 613 | 5975.2 | 570 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 9 | 1005 | 0.152679874 | 506 | 675 | 6582.4 | 643 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 10 | 1107 | 0.171168803 | 472 | 663 | 6467.3 | 638 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 11 | 1101 | 0.156525448 | 541 | 721 | 7034 | 701 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 12 | 946 | 0.13391846 | 558 | 724 | 7064 | 713 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 13 | 962 | 0.135186408 | 569 | 730 | 7116.1 | 718 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 14 | 1190 | 0.160111944 | 616 | 762 | 7432.3 | 757 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 15 | 1188 | 0.158936145 | 635 | 766 | 7474.7 | 760 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 16 | 1078 | 0.14337585 | 646 | 771 | 7518.7 | 761 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 17 | 984 | 0.134558582 | 599 | 750 | 7312.8 | 738 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 18 | 920 | 0.133596654 | 523 | 706 | 6886.4 | 681 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 19 | 978 | 0.145347541 | 497 | 690 | 6728.7 | 669 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 20 | 805 | 0.139285405 | 404 | 593 | 5779.5 | 553 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 21 | 567 | 0.120705071 | 305 | 482 | 4697.4 | 438 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 22 | 366 | 0.107637561 | 238 | 348 | 3400.3 | 289 |
| FL | Crystal River | 4 | 2013 | 10/7/2013 | 23 | 279 | 0.099288256 | 213 | 288 | 2810 | 233 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 0 | 209 | 0.073742149 | 226 | 290 | 2834.2 | 225 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 1 | 228 | 0.078909116 | 225 | 296 | 2889.4 | 226 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 2 | 220 | 0.077722038 | 212 | 290 | 2830.6 | 226 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 3 | 227 | 0.080788668 | 224 | 288 | 2809.8 | 226 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 4 | 224 | 0.080506038 | 230 | 285 | 2782.4 | 225 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 5 | 313 | 0.095560848 | 248 | 336 | 3275.4 | 282 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 6 | 484 | 0.114909782 | 299 | 432 | 4212 | 380 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 7 | 756 | 0.133396856 | 379 | 581 | 5667.3 | 553 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 8 | 1045 | 0.146631681 | 555 | 731 | 7126.7 | 721 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 9 | 830 | 0.115610157 | 581 | 736 | 7179.3 | 726 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 10 | 706 | 0.099174018 | 598 | 730 | 7118.8 | 726 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 11 | 658 | 0.092324961 | 591 | 731 | 7127 | 726 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 12 | 670 | 0.092909739 | 613 | 739 | 7211.3 | 726 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 13 | 715 | 0.09853914 | 587 | 744 | 7256 | 726 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 14 | 753 | 0.104699666 | 596 | 737 | 7192 | 726 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 15 | 725 | 0.100080064 | 615 | 743 | 7244.2 | 725 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 16 | 717 | 0.097877278 | 652 | 751 | 7325.5 | 723 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 17 | 741 | 0.102498133 | 650 | 741 | 7229.4 | 736 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 18 | 838 | 0.11338881 | 657 | 758 | 7390.5 | 757 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 19 | 729 | 0.105920814 | 591 | 706 | 6882.5 | 706 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 20 | 504 | 0.087381671 | 490 | 591 | 5767.8 | 567 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 21 | 319 | 0.066524858 | 402 | 492 | 4795.2 | 448 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 22 | 183 | 0.051352565 | 352 | 365 | 3563.6 | 309 |
| FL | Crystal River | 4 | 2013 | 10/8/2013 | 23 | 115 | 0.040700761 | 333 | 289 | 2825.5 | 227 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 0 | 136 | 0.048479663 | 196 | 287 | 2805.3 | 226 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 1 | 167 | 0.060002874 | 211 | 285 | 2783.2 | 225 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 2 | 172 | 0.061365015 | 215 | 287 | 2802.9 | 225 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 3 | 204 | 0.072156197 | 240 | 290 | 2827.2 | 225 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 4 | 203 | 0.072619303 | 209 | 286 | 2795.4 | 226 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 5 | 296 | 0.093977204 | 226 | 323 | 3149.7 | 263 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 6 | 884 | 0.172259246 | 379 | 526 | 5131.8 | 495 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 7 | 1242 | 0.182293196 | 647 | 699 | 6813.2 | 686 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 8 | 1220 | 0.171516941 | 569 | 729 | 7113 | 722 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 9 | 1132 | 0.159268378 | 561 | 729 | 7107.5 | 726 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 10 | 1263 | 0.177410066 | 590 | 730 | 7119.1 | 726 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 11 | 860 | 0.121302735 | 553 | 727 | 7089.7 | 726 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 12 | 892 | 0.124914226 | 607 | 732 | 7140.9 | 726 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 13 | 999 | 0.139088061 | 581 | 736 | 7182.5 | 726 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 14 | 1045 | 0.145132842 | 568 | 738 | 7200.3 | 726 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 15 | 1022 | 0.141828224 | 583 | 739 | 7205.9 | 726 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 16 | 992 | 0.136329279 | 589 | 746 | 7276.5 | 726 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 17 | 739 | 0.115740016 | 491 | 655 | 6385 | 633 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 18 | 562 | 0.09821569 | 417 | 587 | 5722.1 | 551 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 19 | 647 | 0.122980422 | 363 | 539 | 5261 | 502 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 20 | 324 | 0.086007804 | 248 | 386 | 3767.1 | 337 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 21 | 200 | 0.065140214 | 218 | 315 | 3070.3 | 255 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 22 | 198 | 0.067989836 | 206 | 298 | 2912.2 | 235 |
| FL | Crystal River | 4 | 2013 | 10/9/2013 | 23 | 196 | 0.070060051 | 201 | 287 | 2797.6 | 226 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 0 | 210 | 0.075583069 | 202 | 285 | 2778.4 | 226 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 1 | 204 | 0.073139251 | 206 | 286 | 2789.2 | 225 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 2 | 198 | 0.071305099 | 227 | 284 | 2776.8 | 226 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 3 | 213 | 0.075108431 | 204 | 291 | 2835.9 | 225 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 4 | 218 | 0.077034524 | 209 | 290 | 2829.9 | 226 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 5 | 205 | 0.072875933 | 202 | 288 | 2813 | 226 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 6 | 288 | 0.096404901 | 239 | 306 | 2987.4 | 241 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 7 | 830 | 0.167399459 | 357 | 508 | 4958.2 | 472 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 8 | 1524 | 0.218798903 | 543 | 714 | 6965.3 | 703 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 9 | 1100 | 0.154435818 | 576 | 730 | 7122.7 | 726 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 10 | 925 | 0.130160696 | 582 | 729 | 7106.6 | 726 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 11 | 1098 | 0.153287729 | 580 | 734 | 7163 | 726 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 12 | 1186 | 0.164400272 | 598 | 740 | 7214.1 | 726 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 13 | 1106 | 0.152758211 | 615 | 742 | 7240.2 | 726 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 14 | 1149 | 0.158467458 | 623 | 743 | 7250.7 | 726 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 15 | 1210 | 0.166730971 | 616 | 744 | 7257.2 | 726 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 16 | 1188 | 0.162477092 | 606 | 750 | 7311.8 | 726 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 17 | 1122 | 0.154152641 | 604 | 746 | 7278.5 | 726 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 18 | 1077 | 0.146936437 | 608 | 752 | 7329.7 | 726 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 19 | 1218 | 0.160189386 | 623 | 780 | 7603.5 | 745 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 20 | 1034 | 0.148382005 | 536 | 715 | 6968.5 | 686 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 21 | 595 | 0.109401144 | 364 | 558 | 5438.7 | 511 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 22 | 558 | 0.112615794 | 317 | 508 | 4954.9 | 452 |
| FL | Crystal River | 4 | 2013 | 10/10/2013 | 23 | 626 | 0.133041464 | 296 | 482 | 4705.3 | 430 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 0 | 369 | 0.094082252 | 270 | 402 | 3922.1 | 356 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 1 | 239 | 0.07361094 | 217 | 333 | 3246.8 | 277 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 2 | 227 | 0.075563397 | 204 | 308 | 3004.1 | 255 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 3 | 210 | 0.071469898 | 193 | 301 | 2938.3 | 248 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 4 | 202 | 0.067459257 | 203 | 307 | 2994.4 | 253 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 5 | 384 | 0.099250452 | 251 | 397 | 3869 | 351 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 6 | 527 | 0.120234537 | 284 | 449 | 4383.1 | 410 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 7 | 454 | 0.105365763 | 336 | 442 | 4308.8 | 405 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 8 | 1026 | 0.190299546 | 404 | 553 | 5391.5 | 527 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 9 | 1262 | 0.179470406 | 562 | 721 | 7031.8 | 715 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 10 | 1043 | 0.137399552 | 607 | 778 | 7591 | 765 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 11 | 1115 | 0.146633351 | 615 | 780 | 7604 | 765 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 12 | 1095 | 0.143723421 | 640 | 781 | 7618.8 | 763 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 13 | 987 | 0.130145837 | 659 | 778 | 7583.8 | 765 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 14 | 1341 | 0.176589104 | 668 | 779 | 7593.9 | 765 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 15 | 1315 | 0.172753547 | 685 | 781 | 7612 | 763 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 16 | 1161 | 0.151382786 | 705 | 786 | 7669.3 | 763 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 17 | 1147 | 0.149106272 | 700 | 789 | 7692.5 | 764 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 18 | 1233 | 0.160926141 | 697 | 786 | 7661.9 | 765 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 19 | 1294 | 0.166961279 | 720 | 795 | 7750.3 | 765 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 20 | 1090 | 0.150160493 | 631 | 744 | 7258.9 | 714 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 21 | 912 | 0.137562786 | 576 | 680 | 6629.7 | 640 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 22 | 805 | 0.13869984 | 516 | 595 | 5803.9 | 544 |
| FL | Crystal River | 4 | 2013 | 10/11/2013 | 23 | 734 | 0.140529571 | 485 | 535 | 5223.1 | 481 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 0 | 522 | 0.111080374 | 437 | 482 | 4699.3 | 418 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 1 | 180 | 0.055262188 | 312 | 334 | 3257.2 | 266 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 2 | 178 | 0.06012701 | 180 | 303 | 2960.4 | 226 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 3 | 163 | 0.055282347 | 200 | 302 | 2948.5 | 226 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 4 | 151 | 0.051061815 | 198 | 303 | 2957.2 | 226 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 5 | 147 | 0.050698396 | 156 | 297 | 2899.5 | 226 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 6 | 256 | 0.076587088 | 217 | 342 | 3342.6 | 266 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 7 | 520 | 0.114780152 | 444 | 464 | 4530.4 | 400 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 8 | 1154 | 0.181927103 | 773 | 650 | 6343.2 | 603 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 9 | 1311 | 0.169809854 | 1219 | 792 | 7720.4 | 756 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 10 | 1081 | 0.139259259 | 1288 | 796 | 7762.5 | 764 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 11 | 1188 | 0.15295087 | 1312 | 796 | 7767.2 | 766 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 12 | 1313 | 0.168605696 | 1331 | 799 | 7787.4 | 767 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 13 | 1234 | 0.157259555 | 1341 | 805 | 7846.9 | 767 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 14 | 1078 | 0.137612337 | 1339 | 803 | 7833.6 | 765 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 15 | 1154 | 0.146159205 | 876 | 810 | 7895.5 | 766 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 16 | 1247 | 0.15841559 | 645 | 807 | 7871.7 | 766 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 17 | 1174 | 0.149626571 | 651 | 805 | 7846.2 | 767 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 18 | 1100 | 0.139922407 | 652 | 806 | 7861.5 | 767 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 19 | 1184 | 0.150756968 | 644 | 805 | 7853.7 | 767 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 20 | 979 | 0.135372447 | 549 | 742 | 7231.9 | 701 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 21 | 931 | 0.140234075 | 478 | 681 | 6638.9 | 633 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 22 | 838 | 0.138992553 | 434 | 618 | 6029.1 | 564 |
| FL | Crystal River | 4 | 2013 | 10/12/2013 | 23 | 630 | 0.115484025 | 376 | 559 | 5455.3 | 492 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 0 | 341 | 0.07812858 | 270 | 447 | 4364.6 | 383 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 1 | 135 | 0.045024013 | 203 | 307 | 2998.4 | 233 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 2 | 146 | 0.049189717 | 195 | 304 | 2968.1 | 226 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 3 | 133 | 0.044764565 | 196 | 304 | 2971.1 | 226 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 4 | 134 | 0.045114807 | 204 | 304 | 2970.2 | 226 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 5 | 137 | 0.047199063 | 209 | 297 | 2902.6 | 226 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 6 | 173 | 0.059532003 | 212 | 298 | 2906 | 226 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 7 | 206 | 0.062816369 | 239 | 336 | 3279.4 | 264 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 8 | 474 | 0.101040246 | 319 | 481 | 4691.2 | 412 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 9 | 938 | 0.147816632 | 431 | 651 | 6345.7 | 595 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 10 | 1168 | 0.158659005 | 566 | 755 | 7361.7 | 710 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 11 | 1159 | 0.147908983 | 658 | 804 | 7835.9 | 765 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 12 | 1063 | 0.13443784 | 632 | 811 | 7907 | 767 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 13 | 1167 | 0.148452507 | 636 | 806 | 7861.1 | 763 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 14 | 1194 | 0.151415238 | 646 | 809 | 7885.6 | 764 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 15 | 1198 | 0.15168013 | 687 | 810 | 7898.2 | 763 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 16 | 1199 | 0.152022315 | 733 | 809 | 7887 | 765 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 17 | 1138 | 0.144375936 | 733 | 808 | 7882.2 | 765 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 18 | 1148 | 0.145801847 | 732 | 807 | 7873.7 | 766 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 19 | 1173 | 0.14905459 | 747 | 807 | 7869.6 | 764 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 20 | 1014 | 0.138051218 | 661 | 753 | 7345.1 | 710 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 21 | 789 | 0.126787723 | 553 | 638 | 6223 | 581 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 22 | 859 | 0.151205774 | 499 | 582 | 5681 | 522 |
| FL | Crystal River | 4 | 2013 | 10/13/2013 | 23 | 400 | 0.091060168 | 417 | 450 | 4392.7 | 383 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 0 | 216 | 0.061719576 | 357 | 359 | 3499.7 | 287 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 1 | 154 | 0.050904043 | 217 | 310 | 3025.3 | 233 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 2 | 138 | 0.046962736 | 185 | 301 | 2938.5 | 226 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 3 | 139 | 0.04715381 | 194 | 302 | 2947.8 | 226 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 4 | 211 | 0.064114251 | 237 | 337 | 3291 | 260 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 5 | 616 | 0.127694859 | 318 | 494 | 4824 | 429 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 6 | 966 | 0.158008375 | 379 | 627 | 6113.6 | 579 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 7 | 831 | 0.128570102 | 446 | 663 | 6463.4 | 619 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 8 | 1125 | 0.159021839 | 523 | 725 | 7074.5 | 690 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 9 | 1304 | 0.168630139 | 696 | 793 | 7732.9 | 761 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 10 | 961 | 0.123648996 | 621 | 797 | 7772 | 764 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 11 | 938 | 0.121262265 | 603 | 793 | 7735.3 | 765 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 12 | 980 | 0.12645814 | 627 | 795 | 7749.6 | 763 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 13 | 1055 | 0.136759006 | 624 | 791 | 7714.3 | 762 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 14 | 1133 | 0.146361628 | 627 | 794 | 7741.1 | 764 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 15 | 1130 | 0.145883629 | 627 | 794 | 7745.9 | 761 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 16 | 1182 | 0.15171741 | 623 | 799 | 7790.8 | 764 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 17 | 1148 | 0.149898805 | 620 | 785 | 7658.5 | 763 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 18 | 1082 | 0.140501234 | 616 | 790 | 7701 | 763 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 19 | 1112 | 0.144370586 | 608 | 790 | 7702.4 | 763 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 20 | 1148 | 0.149296434 | 615 | 788 | 7689.4 | 765 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 21 | 960 | 0.137031275 | 532 | 718 | 7005.7 | 701 |
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 22 | 677 | 0.119421415 | 402 | 581 | 5669 | 542 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/14/2013 | 23 | 799 | 0.156130923 | 363 | 525 | 5117.5 | 482 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 0 | 552 | 0.119457249 | 332 | 474 | 4620.9 | 422 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 1 | 270 | 0.074900133 | 252 | 369 | 3604.8 | 315 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 2 | 218 | 0.071363101 | 219 | 313 | 3054.8 | 255 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 3 | 217 | 0.068818978 | 220 | 323 | 3153.2 | 263 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 4 | 351 | 0.092159849 | 262 | 390 | 3808.6 | 332 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 5 | 548 | 0.119353574 | 293 | 471 | 4591.4 | 420 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 6 | 1305 | 0.210006276 | 403 | 637 | 6214.1 | 597 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 7 | 1341 | 0.178664215 | 585 | 770 | 7505.7 | 760 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 8 | 927 | 0.123656057 | 607 | 769 | 7496.6 | 764 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 9 | 1082 | 0.145469212 | 580 | 763 | 7438 | 763 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 10 | 1241 | 0.166191261 | 604 | 766 | 7467.3 | 764 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 11 | 1099 | 0.146989982 | 605 | 767 | 7476.7 | 765 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 12 | 1060 | 0.141665776 | 598 | 767 | 7482.4 | 763 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 13 | 1149 | 0.153511116 | 598 | 767 | 7484.8 | 763 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 14 | 1180 | 0.157320748 | 600 | 769 | 7500.6 | 764 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 15 | 1125 | 0.149934029 | 615 | 769 | 7503.3 | 762 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 16 | 1078 | 0.143471259 | 616 | 770 | 7513.7 | 763 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 17 | 1035 | 0.138455982 | 598 | 767 | 7475.3 | 764 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 18 | 1092 | 0.146086957 | 613 | 766 | 7475 | 765 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 19 | 1071 | 0.148716952 | 561 | 738 | 7201.6 | 739 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 20 | 867 | 0.13146921 | 488 | 676 | 6594.7 | 663 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 21 | 931 | 0.144280689 | 451 | 662 | 6452.7 | 640 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 22 | 801 | 0.138079641 | 417 | 595 | 5801 | 563 |
| FL | Crystal River | 4 | 2013 | 10/15/2013 | 23 | 808 | 0.150213794 | 376 | 551 | 5379 | 519 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 0 | 591 | 0.120070702 | 339 | 505 | 4922.1 | 470 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 1 | 129 | 0.040817618 | 211 | 324 | 3160.4 | 284 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 2 | 127 | 0.045742688 | 194 | 284 | 2776.4 | 225 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 3 | 140 | 0.050743023 | 195 | 283 | 2759 | 226 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 4 | 166 | 0.054662803 | 221 | 311 | 3036.8 | 250 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 5 | 546 | 0.118669854 | 276 | 472 | 4601 | 430 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 6 | 914 | 0.155954067 | 351 | 601 | 5860.7 | 571 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 7 | 916 | 0.14727872 | 410 | 638 | 6219.5 | 617 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 8 | 942 | 0.143590994 | 459 | 673 | 6560.3 | 658 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 9 | 939 | 0.139125539 | 539 | 692 | 6749.3 | 680 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 10 | 1025 | 0.15050732 | 490 | 698 | 6810.3 | 686 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 11 | 1371 | 0.18242542 | 548 | 771 | 7515.4 | 763 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 12 | 1145 | 0.152811328 | 614 | 768 | 7492.9 | 765 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 13 | 950 | 0.127364625 | 604 | 765 | 7458.9 | 763 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 14 | 893 | 0.119711513 | 574 | 765 | 7459.6 | 762 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 15 | 957 | 0.12769705 | 577 | 768 | 7494.3 | 762 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 16 | 1029 | 0.136425105 | 595 | 773 | 7542.6 | 762 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 17 | 1090 | 0.143309799 | 593 | 780 | 7605.9 | 763 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 18 | 1113 | 0.147058824 | 590 | 776 | 7568.4 | 763 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 19 | 1059 | 0.1426205 | 564 | 761 | 7425.3 | 741 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 20 | 819 | 0.121284819 | 492 | 692 | 6752.7 | 661 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 21 | 707 | 0.113379412 | 399 | 639 | 6235.7 | 594 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 22 | 689 | 0.12031572 | 355 | 587 | 5726.6 | 567 |
| FL | Crystal River | 4 | 2013 | 10/16/2013 | 23 | 557 | 0.107004265 | 296 | 534 | 5205.4 | 507 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 0 | 293 | 0.068734165 | 243 | 437 | 4262.8 | 398 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 1 | 121 | 0.041367521 | 190 | 300 | 2925 | 258 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 2 | 118 | 0.044049574 | 190 | 274 | 2678.8 | 227 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 3 | 137 | 0.051016608 | 212 | 275 | 2685.4 | 226 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 4 | 188 | 0.061512286 | 226 | 313 | 3056.3 | 261 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 5 | 459 | 0.110259675 | 253 | 427 | 4162.9 | 392 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 6 | 543 | 0.110990741 | 269 | 501 | 4892.3 | 470 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 7 | 623 | 0.125589646 | 287 | 509 | 4960.6 | 480 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 8 | 1180 | 0.189272424 | 423 | 639 | 6234.4 | 628 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 9 | 1657 | 0.222861831 | 557 | 762 | 7435.1 | 760 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 10 | 1209 | 0.161395827 | 614 | 768 | 7490.9 | 763 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 11 | 1170 | 0.154512559 | 605 | 776 | 7572.2 | 763 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 12 | 1215 | 0.160665406 | 597 | 775 | 7562.3 | 762 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 13 | 1198 | 0.158001635 | 606 | 777 | 7582.2 | 762 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 14 | 1140 | 0.150536782 | 598 | 777 | 7572.9 | 761 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 15 | 1123 | 0.14735019 | 602 | 781 | 7621.3 | 760 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 16 | 1185 | 0.154814941 | 604 | 785 | 7654.3 | 762 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 17 | 1241 | 0.162334689 | 596 | 784 | 7644.7 | 763 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 18 | 1282 | 0.167963735 | 595 | 783 | 7632.6 | 764 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 19 | 1296 | 0.16911995 | 597 | 786 | 7663.2 | 763 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 20 | 1174 | 0.160198679 | 557 | 751 | 7328.4 | 732 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 21 | 916 | 0.134545615 | 503 | 698 | 6808.1 | 667 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 22 | 828 | 0.127624156 | 467 | 665 | 6487.8 | 636 |
| FL | Crystal River | 4 | 2013 | 10/17/2013 | 23 | 539 | 0.096648676 | 373 | 572 | 5576.9 | 525 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 0 | 417 | 0.086392641 | 328 | 495 | 4826.8 | 447 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 1 | 339 | 0.080645161 | 281 | 431 | 4203.6 | 383 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 2 | 284 | 0.07221869 | 255 | 403 | 3932.5 | 350 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 3 | 211 | 0.059542286 | 237 | 363 | 3543.7 | 309 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 4 | 333 | 0.083252081 | 268 | 410 | 3999.9 | 354 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 5 | 627 | 0.131300651 | 305 | 489 | 4775.3 | 447 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 6 | 1357 | 0.206588923 | 453 | 673 | 6568.6 | 641 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 7 | 1132 | 0.157592126 | 517 | 737 | 7183.1 | 719 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 8 | 1028 | 0.13639741 | 580 | 773 | 7536.8 | 762 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 9 | 1022 | 0.135314056 | 694 | 774 | 7552.8 | 760 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 10 | 1183 | 0.156027433 | 576 | 777 | 7582 | 760 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 11 | 1225 | 0.161082474 | 570 | 780 | 7604.8 | 762 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 12 | 1148 | 0.151405246 | 583 | 777 | 7582.3 | 760 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 13 | 1146 | 0.151147454 | 629 | 777 | 7582 | 761 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 14 | 1123 | 0.148186269 | 636 | 777 | 7578.3 | 759 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 15 | 1178 | 0.154633762 | 647 | 781 | 7618 | 759 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 16 | 1188 | 0.155466859 | 641 | 784 | 7641.5 | 759 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 17 | 1015 | 0.132361379 | 613 | 786 | 7668.4 | 760 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 18 | 927 | 0.120903056 | 605 | 786 | 7667.3 | 761 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 19 | 854 | 0.110713545 | 586 | 791 | 7713.6 | 761 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 20 | 856 | 0.110675821 | 587 | 793 | 7734.3 | 760 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 21 | 823 | 0.107442656 | 582 | 785 | 7659.9 | 755 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 22 | 678 | 0.09787363 | 478 | 710 | 6927.3 | 672 |
| FL | Crystal River | 4 | 2013 | 10/18/2013 | 23 | 505 | 0.084918193 | 392 | 610 | 5946.9 | 558 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 0 | 501 | 0.087981174 | 370 | 584 | 5694.4 | 529 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 1 | 355 | 0.074561035 | 328 | 488 | 4761.2 | 425 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 2 | 182 | 0.049057926 | 237 | 380 | 3709.9 | 309 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 3 | 105 | 0.035908485 | 204 | 300 | 2924.1 | 226 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 4 | 186 | 0.055553896 | 221 | 343 | 3348.1 | 269 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 5 | 460 | 0.104180822 | 282 | 453 | 4415.4 | 387 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 6 | 738 | 0.140533953 | 304 | 538 | 5251.4 | 474 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 7 | 1246 | 0.191256831 | 416 | 668 | 6514.8 | 625 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 8 | 1211 | 0.157997051 | 582 | 786 | 7664.7 | 758 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 9 | 956 | 0.123273717 | 635 | 795 | 7755.1 | 765 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 10 | 1039 | 0.133988445 | 628 | 795 | 7754.4 | 765 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 11 | 1166 | 0.150831123 | 610 | 793 | 7730.5 | 765 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 12 | 1184 | 0.152918233 | 603 | 794 | 7742.7 | 763 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 13 | 1104 | 0.143172092 | 601 | 791 | 7711 | 764 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 14 | 1071 | 0.138389973 | 603 | 794 | 7739 | 760 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 15 | 1033 | 0.133347103 | 612 | 794 | 7746.7 | 763 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 16 | 1021 | 0.131358876 | 629 | 797 | 7772.6 | 763 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 17 | 1057 | 0.135031554 | 626 | 803 | 7827.8 | 766 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 18 | 1103 | 0.142532241 | 626 | 794 | 7738.6 | 764 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 19 | 1113 | 0.141982396 | 627 | 804 | 7839 | 767 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 20 | 1070 | 0.137852845 | 628 | 796 | 7761.9 | 764 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 21 | 1024 | 0.132450331 | 626 | 793 | 7731.2 | 764 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 22 | 826 | 0.116480758 | 531 | 727 | 7091.3 | 689 |
| FL | Crystal River | 4 | 2013 | 10/19/2013 | 23 | 733 | 0.111968227 | 451 | 671 | 6546.5 | 626 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 0 | 745 | 0.124452908 | 389 | 614 | 5986.2 | 563 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 1 | 761 | 0.136602703 | 339 | 571 | 5570.9 | 518 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 2 | 448 | 0.094702575 | 288 | 485 | 4730.6 | 427 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 3 | 349 | 0.080279714 | 260 | 446 | 4347.3 | 378 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 4 | 414 | 0.092431346 | 264 | 459 | 4479 | 393 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 5 | 547 | 0.11165544 | 279 | 502 | 4899 | 446 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 6 | 563 | 0.113325282 | 283 | 509 | 4968 | 452 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 7 | 972 | 0.160319319 | 375 | 622 | 6062.9 | 577 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 8 | 1308 | 0.172044142 | 570 | 780 | 7602.7 | 751 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 9 | 1022 | 0.133241203 | 652 | 787 | 7670.3 | 768 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 10 | 988 | 0.128027368 | 640 | 791 | 7717.1 | 766 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 11 | 1068 | 0.13864908 | 616 | 790 | 7702.9 | 766 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 12 | 1185 | 0.152276436 | 599 | 798 | 7781.9 | 765 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 13 | 1386 | 0.177144975 | 602 | 802 | 7824.1 | 765 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 14 | 1280 | 0.164437764 | 599 | 798 | 7784.1 | 766 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 15 | 1161 | 0.148712694 | 601 | 801 | 7807 | 765 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 16 | 1212 | 0.154373273 | 612 | 805 | 7851.1 | 765 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 17 | 1266 | 0.161189697 | 604 | 805 | 7854.1 | 766 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 18 | 1298 | 0.166673087 | 591 | 799 | 7787.7 | 764 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 19 | 1272 | 0.163076923 | 592 | 800 | 7800 | 765 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 20 | 1215 | 0.155915151 | 600 | 799 | 7792.7 | 767 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 21 | 1006 | 0.128936339 | 600 | 800 | 7802.3 | 764 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 22 | 708 | 0.103791011 | 470 | 699 | 6821.4 | 656 |
| FL | Crystal River | 4 | 2013 | 10/20/2013 | 23 | 630 | 0.100079428 | 409 | 645 | 6295 | 602 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 0 | 659 | 0.112154941 | 358 | 602 | 5875.8 | 558 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 1 | 560 | 0.106068642 | 316 | 541 | 5279.6 | 490 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 2 | 404 | 0.08474043 | 276 | 489 | 4767.5 | 435 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 3 | 424 | 0.086924433 | 278 | 500 | 4877.8 | 445 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 4 | 662 | 0.120418372 | 329 | 564 | 5497.5 | 510 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 5 | 997 | 0.153538154 | 435 | 666 | 6493.5 | 627 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 6 | 830 | 0.131410206 | 448 | 648 | 6316.1 | 608 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 7 | 903 | 0.138035403 | 471 | 671 | 6541.8 | 631 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 8 | 1300 | 0.175280111 | 585 | 761 | 7416.7 | 729 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 9 | 1117 | 0.14247449 | 768 | 804 | 7840 | 766 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 10 | 1015 | 0.130063174 | 647 | 800 | 7803.9 | 765 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 11 | 1077 | 0.138126507 | 592 | 800 | 7797.2 | 765 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 12 | 1170 | 0.150273575 | 599 | 798 | 7785.8 | 764 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 13 | 1167 | 0.149339681 | 593 | 801 | 7814.4 | 766 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 14 | 1314 | 0.169114146 | 582 | 797 | 7769.9 | 763 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 15 | 1245 | 0.158849648 | 603 | 804 | 7837.6 | 767 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 16 | 1110 | 0.14160692 | 611 | 804 | 7838.6 | 765 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 17 | 1188 | 0.151439826 | 604 | 804 | 7844.7 | 765 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 18 | 1106 | 0.141913133 | 607 | 799 | 7793.5 | 766 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 19 | 1094 | 0.140732736 | 614 | 797 | 7773.6 | 765 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 20 | 1183 | 0.15226597 | 613 | 797 | 7769.3 | 763 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 21 | 1190 | 0.152618889 | 623 | 800 | 7797.2 | 764 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 22 | 949 | 0.130860452 | 543 | 744 | 7252 | 704 |
| FL | Crystal River | 4 | 2013 | 10/21/2013 | 23 | 901 | 0.13330966 | 466 | 693 | 6758.7 | 649 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 0 | 872 | 0.140362173 | 422 | 637 | 6212.5 | 595 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 1 | 853 | 0.144853703 | 376 | 604 | 5888.7 | 557 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 2 | 746 | 0.140207116 | 324 | 545 | 5320.7 | 492 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 3 | 942 | 0.177240912 | 318 | 545 | 5314.8 | 490 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 4 | 1045 | 0.171911757 | 383 | 623 | 6078.7 | 573 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 5 | 1250 | 0.169929309 | 559 | 754 | 7356 | 716 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 6 | 1306 | 0.167915965 | 653 | 798 | 7777.7 | 769 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 7 | 1102 | 0.141601563 | 677 | 798 | 7782.4 | 768 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 8 | 1093 | 0.139895047 | 664 | 801 | 7813 | 770 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 9 | 1173 | 0.150848765 | 1944 | 797 | 7776 | 767 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 10 | 1212 | 0.157576546 | 2976 | 789 | 7691.5 | 755 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 11 | 1195 | 0.154098107 | 3109 | 795 | 7754.8 | 767 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 12 | 1271 | 0.163799214 | 2808 | 796 | 7759.5 | 766 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 13 | 1310 | 0.168322048 | 2482 | 798 | 7782.7 | 765 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 14 | 1104 | 0.140590378 | 3125 | 805 | 7852.6 | 769 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 15 | 1045 | 0.133192281 | 3193 | 805 | 7845.8 | 769 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 16 | 1204 | 0.154135675 | 3163 | 801 | 7811.3 | 765 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 17 | 1125 | 0.145185644 | 3153 | 795 | 7748.7 | 765 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 18 | 1128 | 0.144628364 | 3135 | 800 | 7799.3 | 764 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 19 | 1204 | 0.154084388 | 3117 | 801 | 7813.9 | 766 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 20 | 1209 | 0.154664893 | 3173 | 802 | 7816.9 | 767 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 21 | 1236 | 0.159046749 | 3162 | 797 | 7771.3 | 765 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 22 | 1212 | 0.156155382 | 3135 | 796 | 7761.5 | 764 |
| FL | Crystal River | 4 | 2013 | 10/22/2013 | 23 | 889 | 0.132285761 | 2412 | 689 | 6720.3 | 650 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 0 | 802 | 0.133333333 | 1997 | 617 | 6015 | 571 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 1 | 946 | 0.167602714 | 1710 | 579 | 5644.3 | 521 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 2 | 898 | 0.16746233 | 1651 | 550 | 5362.4 | 484 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 3 | 706 | 0.133755186 | 1604 | 541 | 5278.3 | 479 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 4 | 535 | 0.108761943 | 1520 | 504 | 4919 | 440 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 5 | 301 | 0.071956205 | 1284 | 429 | 4183.1 | 355 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 6 | 1039 | 0.158875789 | 2282 | 671 | 6539.7 | 612 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 7 | 1001 | 0.132192333 | 3051 | 776 | 7572.3 | 752 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 8 | 597 | 0.089233667 | 2488 | 686 | 6690.3 | 656 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 9 | 964 | 0.146408882 | 2396 | 675 | 6584.3 | 634 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 10 | 962 | 0.147148801 | 2412 | 670 | 6537.6 | 631 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 11 | 820 | 0.122785739 | 2497 | 685 | 6678.3 | 641 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 12 | 982 | 0.147507248 | 2456 | 683 | 6657.3 | 642 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 13 | 970 | 0.145761642 | 2429 | 682 | 6654.7 | 641 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 14 | 879 | 0.132047411 | 2443 | 683 | 6656.7 | 641 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 15 | 942 | 0.141201865 | 2448 | 684 | 6671.3 | 641 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 16 | 942 | 0.141250562 | 2440 | 684 | 6669 | 641 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 17 | 926 | 0.136210523 | 2440 | 697 | 6798.3 | 651 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 18 | 972 | 0.138099568 | 2590 | 722 | 7038.4 | 680 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 19 | 921 | 0.13124332 | 2568 | 720 | 7017.5 | 678 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 20 | 682 | 0.110833035 | 2129 | 631 | 6153.4 | 586 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 21 | 913 | 0.149610815 | 2068 | 626 | 6102.5 | 577 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 22 | 732 | 0.125321007 | 1985 | 599 | 5841 | 547 |
| FL | Crystal River | 4 | 2013 | 10/23/2013 | 23 | 540 | 0.112607916 | 1582 | 492 | 4795.4 | 437 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 0 | 321 | 0.093254314 | 1118 | 353 | 3442.2 | 286 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 1 | 120 | 0.041055116 | 1028 | 299 | 2922.9 | 226 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 2 | 122 | 0.041984996 | 1022 | 298 | 2905.8 | 226 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 3 | 115 | 0.039555601 | 1029 | 298 | 2907.3 | 226 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 4 | 133 | 0.043349304 | 1089 | 314 | 3068.1 | 245 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 5 | 339 | 0.076284345 | 1475 | 455 | 4443.9 | 396 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 6 | 649 | 0.110571599 | 1989 | 602 | 5869.5 | 556 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 7 | 632 | 0.104566512 | 2055 | 620 | 6044 | 575 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 8 | 992 | 0.156870187 | 2156 | 648 | 6323.7 | 606 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 9 | 829 | 0.131114872 | 2156 | 648 | 6322.7 | 609 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 10 | 837 | 0.132025175 | 2161 | 650 | 6339.7 | 611 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 11 | 944 | 0.144785276 | 2275 | 669 | 6520 | 633 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 12 | 837 | 0.128138396 | 2220 | 670 | 6532 | 625 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 13 | 808 | 0.125948903 | 2110 | 658 | 6415.3 | 613 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 14 | 998 | 0.153815329 | 2212 | 665 | 6488.3 | 627 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 15 | 802 | 0.126158154 | 2155 | 652 | 6357.1 | 605 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 16 | 797 | 0.136204392 | 1948 | 600 | 5851.5 | 556 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 17 | 1104 | 0.170425601 | 2189 | 664 | 6477.9 | 620 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 18 | 948 | 0.134910131 | 2431 | 721 | 7026.9 | 680 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 19 | 765 | 0.115921386 | 2177 | 677 | 6599.3 | 639 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 20 | 720 | 0.123755994 | 1181 | 596 | 5817.9 | 545 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 21 | 844 | 0.156731662 | 193 | 552 | 5385 | 499 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 22 | 511 | 0.11142365 | 155 | 470 | 4586.1 | 406 |
| FL | Crystal River | 4 | 2013 | 10/24/2013 | 23 | 265 | 0.075502878 | 115 | 360 | 3509.8 | 293 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 0 | 220 | 0.068308132 | 122 | 330 | 3220.7 | 254 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 1 | 251 | 0.073962753 | 118 | 348 | 3393.6 | 275 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 2 | 208 | 0.065484998 | 114 | 325 | 3176.3 | 252 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 3 | 246 | 0.073593203 | 120 | 343 | 3342.7 | 275 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 4 | 391 | 0.096976612 | 133 | 413 | 4031.9 | 349 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 5 | 623 | 0.123090905 | 156 | 519 | 5061.3 | 459 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 6 | 777 | 0.128330058 | 193 | 621 | 6054.7 | 576 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 7 | 685 | 0.104624878 | 229 | 671 | 6547.2 | 631 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 8 | 754 | 0.109259528 | 524 | 708 | 6901 | 677 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 9 | 753 | 0.109035621 | 324 | 708 | 6906 | 675 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 10 | 689 | 0.104992076 | 275 | 673 | 6562.4 | 636 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 11 | 842 | 0.123022077 | 287 | 702 | 6844.3 | 666 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 12 | 1097 | 0.147535472 | 342 | 762 | 7435.5 | 731 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 13 | 1046 | 0.135562468 | 416 | 791 | 7716 | 768 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 14 | 934 | 0.120052957 | 443 | 798 | 7779.9 | 763 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 15 | 1000 | 0.127660118 | 524 | 803 | 7833.3 | 769 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 16 | 821 | 0.113868046 | 454 | 739 | 7210.1 | 695 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 17 | 605 | 0.095122795 | 337 | 652 | 6360.2 | 603 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 18 | 690 | 0.105612784 | 287 | 670 | 6533.3 | 623 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 19 | 633 | 0.106763367 | 266 | 608 | 5929 | 559 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 20 | 530 | 0.100416825 | 179 | 541 | 5278 | 487 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 21 | 407 | 0.087840463 | 148 | 475 | 4633.4 | 416 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 22 | 346 | 0.081302723 | 136 | 436 | 4255.7 | 372 |
| FL | Crystal River | 4 | 2013 | 10/25/2013 | 23 | 225 | 0.060357315 | 123 | 382 | 3727.8 | 313 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 0 | 182 | 0.055792281 | 110 | 334 | 3262.1 | 267 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 1 | 156 | 0.049754417 | 106 | 321 | 3135.4 | 251 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 2 | 154 | 0.049341578 | 109 | 320 | 3121.1 | 251 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 3 | 149 | 0.047869948 | 112 | 319 | 3112.6 | 251 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 4 | 156 | 0.049939177 | 112 | 320 | 3123.8 | 251 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 5 | 191 | 0.057211322 | 116 | 342 | 3338.5 | 273 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 6 | 327 | 0.080659086 | 133 | 415 | 4054.1 | 346 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 7 | 501 | 0.101089588 | 148 | 508 | 4956 | 448 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 8 | 1020 | 0.159589448 | 204 | 655 | 6391.4 | 611 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 9 | 879 | 0.133485194 | 395 | 675 | 6585 | 634 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 10 | 746 | 0.125073351 | 512 | 612 | 5964.5 | 564 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 11 | 904 | 0.154387403 | 509 | 600 | 5855.4 | 556 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 12 | 1206 | 0.182514339 | 555 | 677 | 6607.7 | 637 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 13 | 1245 | 0.178897303 | 598 | 714 | 6959.3 | 677 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 14 | 1208 | 0.172697251 | 622 | 717 | 6994.9 | 681 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 15 | 1175 | 0.168205569 | 663 | 716 | 6985.5 | 679 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 16 | 1095 | 0.162776869 | 679 | 690 | 6727 | 652 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 17 | 786 | 0.134324532 | 596 | 600 | 5851.5 | 557 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 18 | 878 | 0.150631348 | 553 | 598 | 5828.8 | 551 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 19 | 731 | 0.132737739 | 523 | 565 | 5507.1 | 519 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 20 | 495 | 0.104653375 | 482 | 485 | 4729.9 | 427 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 21 | 447 | 0.100165823 | 459 | 457 | 4462.6 | 401 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 22 | 313 | 0.076887175 | 415 | 417 | 4070.9 | 358 |
| FL | Crystal River | 4 | 2013 | 10/26/2013 | 23 | 201 | 0.061720813 | 117 | 334 | 3256.6 | 267 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 0 | 214 | 0.068359687 | 103 | 321 | 3130.5 | 252 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 1 | 186 | 0.059753277 | 105 | 319 | 3112.8 | 253 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 2 | 166 | 0.053371057 | 108 | 319 | 3110.3 | 252 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 3 | 159 | 0.051563108 | 107 | 316 | 3083.6 | 252 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 4 | 158 | 0.050943092 | 114 | 318 | 3101.5 | 252 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 5 | 163 | 0.052691127 | 114 | 317 | 3093.5 | 254 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 6 | 222 | 0.066334001 | 127 | 343 | 3346.7 | 279 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 7 | 422 | 0.099749445 | 156 | 434 | 4230.6 | 373 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 8 | 786 | 0.142445496 | 187 | 566 | 5517.9 | 522 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 9 | 826 | 0.139233038 | 219 | 608 | 5932.5 | 569 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 10 | 674 | 0.114512895 | 235 | 603 | 5885.8 | 558 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 11 | 895 | 0.141493028 | 278 | 649 | 6325.4 | 610 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 12 | 888 | 0.133789342 | 331 | 681 | 6637.3 | 643 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 13 | 732 | 0.105036591 | 404 | 715 | 6969 | 669 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 14 | 793 | 0.111895019 | 446 | 727 | 7087 | 686 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 15 | 1036 | 0.132362336 | 602 | 803 | 7827 | 761 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 16 | 942 | 0.119165085 | 695 | 811 | 7905 | 767 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 17 | 891 | 0.115401054 | 633 | 792 | 7720.9 | 756 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 18 | 787 | 0.11041275 | 498 | 731 | 7127.8 | 681 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 19 | 719 | 0.10988843 | 458 | 671 | 6543 | 623 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 20 | 442 | 0.082322922 | 311 | 550 | 5369.1 | 492 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 21 | 292 | 0.065403396 | 227 | 458 | 4464.6 | 389 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 22 | 218 | 0.060516892 | 165 | 369 | 3602.3 | 299 |
| FL | Crystal River | 4 | 2013 | 10/27/2013 | 23 | 200 | 0.063698325 | 141 | 322 | 3139.8 | 251 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 0 | 192 | 0.061528601 | 131 | 320 | 3120.5 | 250 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 1 | 204 | 0.065823438 | 124 | 318 | 3099.2 | 251 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 2 | 178 | 0.05745086 | 117 | 317 | 3098.3 | 250 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 3 | 178 | 0.057530705 | 114 | 317 | 3094 | 251 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 4 | 324 | 0.087031267 | 152 | 382 | 3722.8 | 321 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 5 | 890 | 0.156634988 | 193 | 583 | 5682 | 532 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 6 | 1126 | 0.165588235 | 244 | 697 | 6800 | 652 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 7 | 1177 | 0.162578043 | 376 | 742 | 7239.6 | 707 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 8 | 1071 | 0.138899697 | 555 | 791 | 7710.6 | 769 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 9 | 910 | 0.11824017 | 708 | 789 | 7696.2 | 770 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 10 | 944 | 0.122386009 | 647 | 791 | 7713.3 | 769 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 11 | 988 | 0.127232689 | 761 | 796 | 7765.3 | 769 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 12 | 1005 | 0.128651527 | 906 | 801 | 7811.8 | 769 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 13 | 1007 | 0.129596026 | 924 | 797 | 7770.3 | 767 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 14 | 924 | 0.117729502 | 934 | 805 | 7848.5 | 769 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 15 | 890 | 0.113182593 | 943 | 806 | 7863.4 | 769 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 16 | 939 | 0.120604177 | 887 | 798 | 7785.8 | 768 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 17 | 1184 | 0.152011195 | 599 | 799 | 7788.9 | 768 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 18 | 1061 | 0.135402443 | 540 | 804 | 7835.9 | 767 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 19 | 936 | 0.120081594 | 506 | 799 | 7794.7 | 763 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 20 | 799 | 0.114978918 | 90 | 713 | 6949.1 | 666 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 21 | 927 | 0.138620968 | 461 | 686 | 6687.3 | 633 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 22 | 729 | 0.118457614 | 504 | 631 | 6154.1 | 575 |
| FL | Crystal River | 4 | 2013 | 10/28/2013 | 23 | 513 | 0.107698444 | 338 | 488 | 4763.3 | 426 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 0 | 294 | 0.077757207 | 279 | 387 | 3781 | 322 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 1 | 265 | 0.073232742 | 365 | 371 | 3618.6 | 303 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 2 | 214 | 0.067019511 | 249 | 327 | 3193.1 | 260 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 3 | 228 | 0.068975949 | 277 | 339 | 3305.5 | 273 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 4 | 467 | 0.11001437 | 526 | 435 | 4244.9 | 377 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 5 | 1104 | 0.172198652 | 557 | 657 | 6411.2 | 617 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 6 | 1296 | 0.168416675 | 715 | 789 | 7695.2 | 769 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 7 | 1135 | 0.14824393 | 696 | 785 | 7656.3 | 769 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 8 | 1013 | 0.132463321 | 1514 | 784 | 7647.4 | 769 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 9 | 1040 | 0.135731252 | 743 | 786 | 7662.2 | 769 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 10 | 1158 | 0.150177022 | 640 | 791 | 7710.9 | 768 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 11 | 1176 | 0.15279077 | 600 | 789 | 7696.8 | 767 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 12 | 1107 | 0.143518338 | 609 | 791 | 7713.3 | 768 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 13 | 1092 | 0.141271443 | 610 | 793 | 7729.8 | 768 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 14 | 1108 | 0.141849419 | 609 | 801 | 7811.1 | 768 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 15 | 1153 | 0.148122455 | 607 | 798 | 7784.1 | 766 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 16 | 1154 | 0.148409167 | 591 | 797 | 7775.8 | 767 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 17 | 1178 | 0.151655595 | 598 | 797 | 7767.6 | 766 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 18 | 1097 | 0.139542575 | 613 | 806 | 7861.4 | 769 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 19 | 1045 | 0.132939815 | 613 | 806 | 7860.7 | 770 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 20 | 885 | 0.112819336 | 619 | 804 | 7844.4 | 773 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 21 | 618 | 0.084123981 | 565 | 753 | 7346.3 | 725 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 22 | 582 | 0.088921483 | 451 | 671 | 6545.1 | 625 |
| FL | Crystal River | 4 | 2013 | 10/29/2013 | 23 | 191 | 0.041705789 | 316 | 469 | 4579.7 | 411 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 0 | 91 | 0.027370891 | 568 | 341 | 3324.7 | 275 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 1 | 76 | 0.024495584 | 180 | 318 | 3102.6 | 251 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 2 | 55 | 0.01777232 | 492 | 317 | 3094.7 | 251 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 3 | 62 | 0.020092034 | 200 | 316 | 3085.8 | 251 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 4 | 67 | 0.020150982 | 212 | 341 | 3324.9 | 272 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 5 | 183 | 0.040240121 | 286 | 466 | 4547.7 | 410 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 6 | 329 | 0.053693247 | 435 | 628 | 6127.4 | 590 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 7 | 409 | 0.068895814 | 445 | 609 | 5936.5 | 559 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 8 | 852 | 0.119130848 | 557 | 733 | 7151.8 | 694 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 9 | 908 | 0.115973127 | 782 | 803 | 7829.4 | 769 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 10 | 743 | 0.094567763 | 660 | 806 | 7856.8 | 767 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 11 | 681 | 0.087236114 | 702 | 800 | 7806.4 | 764 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 12 | 805 | 0.103266029 | 678 | 799 | 7795.4 | 767 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 13 | 838 | 0.107042038 | 634 | 803 | 7828.7 | 763 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 14 | 638 | 0.081462754 | 681 | 803 | 7831.8 | 768 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 15 | 602 | 0.07683962 | 673 | 803 | 7834.5 | 767 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 16 | 628 | 0.079731857 | 677 | 808 | 7876.4 | 767 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 17 | 565 | 0.072126125 | 697 | 803 | 7833.5 | 768 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 18 | 576 | 0.073948544 | 677 | 799 | 7789.2 | 766 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 19 | 735 | 0.094775119 | 628 | 795 | 7755.2 | 764 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 20 | 859 | 0.110700156 | 628 | 796 | 7759.7 | 765 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 21 | 806 | 0.108044344 | 574 | 765 | 7459.9 | 734 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 22 | 552 | 0.08933629 | 383 | 634 | 6178.9 | 583 |
| FL | Crystal River | 4 | 2013 | 10/30/2013 | 23 | 306 | 0.06842729 | 223 | 458 | 4471.9 | 405 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 0 | 150 | 0.047165362 | 162 | 326 | 3180.3 | 260 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 1 | 199 | 0.064725972 | 144 | 315 | 3074.5 | 251 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 2 | 183 | 0.059539302 | 132 | 315 | 3073.6 | 251 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 3 | 184 | 0.059899733 | 122 | 315 | 3071.8 | 250 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 4 | 184 | 0.059544999 | 123 | 317 | 3090.1 | 251 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 5 | 385 | 0.099496059 | 154 | 397 | 3869.5 | 342 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 6 | 770 | 0.137188875 | 202 | 575 | 5612.7 | 527 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 7 | 745 | 0.125224816 | 238 | 610 | 5949.3 | 567 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 8 | 1149 | 0.16180136 | 319 | 728 | 7101.3 | 691 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 9 | 1004 | 0.130591434 | 453 | 788 | 7688.1 | 762 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 10 | 972 | 0.123816924 | 596 | 805 | 7850.3 | 768 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 11 | 1082 | 0.138604222 | 608 | 800 | 7806.4 | 768 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 12 | 1195 | 0.155100134 | 631 | 790 | 7704.7 | 767 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 13 | 1132 | 0.15053792 | 518 | 771 | 7519.7 | 754 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 14 | 778 | 0.116734437 | 433 | 683 | 6664.7 | 651 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 15 | 935 | 0.13920941 | 490 | 689 | 6716.5 | 656 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 16 | 943 | 0.139908903 | 492 | 691 | 6740.1 | 656 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 17 | 970 | 0.143656882 | 499 | 692 | 6752.2 | 656 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 18 | 934 | 0.137456033 | 1528 | 697 | 6794.9 | 656 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 19 | 744 | 0.109098908 | 661 | 699 | 6819.5 | 656 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 20 | 703 | 0.103083713 | 709 | 699 | 6819.7 | 657 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 21 | 733 | 0.110230537 | 645 | 682 | 6649.7 | 639 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 22 | 658 | 0.107379484 | 576 | 628 | 6127.8 | 581 |
| FL | Crystal River | 4 | 2013 | 10/31/2013 | 23 | 284 | 0.062855499 | 456 | 463 | 4518.3 | 403 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 0 | 162 | 0.044487162 | 371 | 373 | 3641.5 | 310 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 1 | 135 | 0.043929583 | 350 | 315 | 3073.1 | 251 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 2 | 180 | 0.05877551 | 339 | 314 | 3062.5 | 251 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 3 | 134 | 0.044256556 | 211 | 310 | 3027.8 | 251 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 4 | 165 | 0.051528684 | 214 | 328 | 3202.1 | 265 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 5 | 614 | 0.120158907 | 332 | 524 | 5109.9 | 478 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 6 | 1114 | 0.166127325 | 482 | 688 | 6705.7 | 651 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 7 | 885 | 0.129543159 | 526 | 700 | 6831.7 | 666 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 8 | 793 | 0.115609465 | 521 | 703 | 6859.3 | 666 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 9 | 797 | 0.116486407 | 554 | 702 | 6842 | 666 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 10 | 896 | 0.128893045 | 556 | 713 | 6951.5 | 667 |

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|----|---------------|---|------|-----------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 11 | 909 | 0.131049695 | 548 | 711 | 6936.3 | 668 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 12 | 916 | 0.131840295 | 528 | 712 | 6947.8 | 668 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 13 | 898 | 0.129918981 | 532 | 709 | 6912 | 668 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 14 | 838 | 0.121285803 | 532 | 708 | 6909.3 | 668 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 15 | 799 | 0.115540902 | 546 | 709 | 6915.3 | 668 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 16 | 847 | 0.122076013 | 548 | 711 | 6938.3 | 668 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 17 | 869 | 0.125500051 | 547 | 710 | 6924.3 | 668 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 18 | 867 | 0.124450952 | 543 | 714 | 6966.6 | 668 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 19 | 844 | 0.121842067 | 526 | 710 | 6927 | 668 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 20 | 841 | 0.12027688 | 538 | 717 | 6992.2 | 668 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 21 | 850 | 0.123076032 | 538 | 708 | 6906.3 | 665 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 22 | 760 | 0.114131251 | 506 | 683 | 6659 | 632 |
| FL | Crystal River | 4 | 2013 | 11/1/2013 | 23 | 675 | 0.102370445 | 481 | 676 | 6593.7 | 622 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 0 | 515 | 0.085624979 | 433 | 617 | 6014.6 | 562 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 1 | 236 | 0.053500181 | 313 | 452 | 4411.2 | 390 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 2 | 109 | 0.034663699 | 223 | 322 | 3144.5 | 244 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 3 | 98 | 0.034271726 | 200 | 293 | 2859.5 | 226 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 4 | 133 | 0.043509552 | 220 | 313 | 3056.8 | 244 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 5 | 209 | 0.056535382 | 262 | 379 | 3696.8 | 319 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 6 | 374 | 0.079381925 | 334 | 483 | 4711.4 | 436 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 7 | 532 | 0.092608711 | 396 | 589 | 5744.6 | 552 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 8 | 670 | 0.101458273 | 501 | 677 | 6603.7 | 649 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 9 | 550 | 0.081744274 | 545 | 690 | 6728.3 | 662 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 10 | 402 | 0.059076815 | 551 | 698 | 6804.7 | 668 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 11 | 507 | 0.074451526 | 544 | 698 | 6809.8 | 671 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 12 | 682 | 0.100224845 | 544 | 698 | 6804.7 | 671 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 13 | 819 | 0.127795029 | 493 | 657 | 6408.7 | 636 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 14 | 843 | 0.130880298 | 476 | 660 | 6441 | 637 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 15 | 728 | 0.117869922 | 457 | 633 | 6176.3 | 610 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 16 | 840 | 0.14129996 | 428 | 609 | 5944.8 | 570 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 17 | 864 | 0.142053862 | 413 | 624 | 6082.2 | 589 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 18 | 965 | 0.146411774 | 468 | 676 | 6591 | 641 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 19 | 542 | 0.10184524 | 383 | 546 | 5321.8 | 504 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 20 | 448 | 0.106050563 | 274 | 433 | 4224.4 | 383 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 21 | 163 | 0.051531725 | 202 | 324 | 3163.1 | 269 |

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|----|---------------|---|------|-----------|----|-----|--------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 22 | 126 | 0.044477391 | 181 | 290 | 2832.9 | 226 |
| FL | Crystal River | 4 | 2013 | 11/2/2013 | 23 | 118 | 0.042120293 | 184 | 287 | 2801.5 | 226 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 0 | 109 | 0.039152299 | 183 | 285 | 2784 | 225 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 1 | 118 | 0.041426766 | 196 | 292 | 2848.4 | 226 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 2 | 112 | 0.039132106 | 203 | 293 | 2862.1 | 226 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 3 | 107 | 0.037493868 | 205 | 292 | 2853.8 | 226 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 4 | 113 | 0.041304189 | 202 | 280 | 2735.8 | 226 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 5 | 108 | 0.040026684 | 197 | 276 | 2698.2 | 226 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 6 | 142 | 0.051800241 | 194 | 281 | 2741.3 | 226 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 7 | 124 | 0.045209275 | 197 | 281 | 2742.8 | 226 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 8 | 168 | 0.052562418 | 226 | 327 | 3196.2 | 276 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 9 | 262 | 0.066424968 | 268 | 404 | 3944.3 | 349 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 10 | 251 | 0.063348645 | 273 | 406 | 3962.2 | 371 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 11 | 342 | 0.074844075 | 301 | 468 | 4569.5 | 423 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 12 | 719 | 0.1244446137 | 387 | 592 | 5777.6 | 563 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 13 | 695 | 0.114839968 | 417 | 620 | 6051.9 | 599 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 14 | 708 | 0.112906055 | 438 | 643 | 6270.7 | 622 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 15 | 642 | 0.106694143 | 415 | 617 | 6017.2 | 587 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 16 | 782 | 0.127286933 | 411 | 630 | 6143.6 | 600 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 17 | 633 | 0.114237245 | 387 | 568 | 5541.1 | 534 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 18 | 937 | 0.14969725 | 431 | 642 | 6259.3 | 616 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 19 | 631 | 0.111415203 | 407 | 581 | 5663.5 | 544 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 20 | 295 | 0.069354649 | 285 | 436 | 4253.5 | 395 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 21 | 163 | 0.053370878 | 210 | 313 | 3054.1 | 261 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 22 | 136 | 0.049789493 | 191 | 280 | 2731.5 | 225 |
| FL | Crystal River | 4 | 2013 | 11/3/2013 | 23 | 133 | 0.04853129 | 197 | 281 | 2740.5 | 226 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 0 | 134 | 0.049145456 | 196 | 279 | 2726.6 | 226 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 1 | 131 | 0.047899375 | 202 | 280 | 2734.9 | 226 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 2 | 126 | 0.046024035 | 205 | 280 | 2737.7 | 226 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 3 | 128 | 0.04701043 | 206 | 279 | 2722.8 | 225 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 4 | 127 | 0.04610135 | 212 | 282 | 2754.8 | 226 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 5 | 141 | 0.048837934 | 222 | 296 | 2887.1 | 239 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 6 | 213 | 0.065554598 | 237 | 333 | 3249.2 | 284 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 7 | 148 | 0.049131893 | 228 | 309 | 3012.3 | 256 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 8 | 154 | 0.050867052 | 230 | 310 | 3027.5 | 257 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 9 | 263 | 0.070878025 | 289 | 380 | 3710.6 | 329 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 10 | 379 | 0.080884393 | 313 | 480 | 4685.7 | 444 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 11 | 685 | 0.122494233 | 374 | 573 | 5592.1 | 553 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 12 | 750 | 0.122669284 | 440 | 627 | 6114 | 627 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 13 | 873 | 0.133327224 | 504 | 671 | 6547.8 | 642 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 14 | 994 | 0.151955239 | 484 | 671 | 6541.4 | 643 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 15 | 874 | 0.135028659 | 466 | 664 | 6472.7 | 634 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 16 | 967 | 0.149055877 | 473 | 665 | 6487.5 | 645 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 17 | 955 | 0.148781704 | 481 | 658 | 6418.8 | 636 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 18 | 1001 | 0.147242693 | 537 | 697 | 6798.3 | 681 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 19 | 904 | 0.132835689 | 524 | 698 | 6805.4 | 681 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 20 | 880 | 0.135586953 | 480 | 665 | 6490.3 | 649 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 21 | 665 | 0.121563323 | 372 | 561 | 5470.4 | 541 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 22 | 704 | 0.14900417 | 316 | 484 | 4724.7 | 452 |
| FL | Crystal River | 4 | 2013 | 11/4/2013 | 23 | 488 | 0.126618406 | 273 | 395 | 3854.1 | 362 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 0 | 201 | 0.068703856 | 225 | 300 | 2925.6 | 247 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 1 | 274 | 0.100835388 | 217 | 278 | 2717.3 | 226 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 2 | 348 | 0.129271917 | 218 | 276 | 2692 | 226 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 3 | 336 | 0.124670699 | 223 | 276 | 2695.1 | 226 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 4 | 332 | 0.121487119 | 229 | 280 | 2732.8 | 225 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 5 | 499 | 0.15838253 | 245 | 323 | 3150.6 | 273 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 6 | 746 | 0.196341624 | 269 | 389 | 3799.5 | 348 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 7 | 848 | 0.16925472 | 330 | 514 | 5010.2 | 488 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 8 | 796 | 0.144827335 | 384 | 563 | 5496.2 | 539 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 9 | 1070 | 0.177699538 | 433 | 617 | 6021.4 | 601 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 10 | 1704 | 0.253805594 | 496 | 688 | 6713.8 | 670 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 11 | 2496 | 0.354661324 | 570 | 722 | 7037.7 | 711 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 12 | 2458 | 0.326280298 | 640 | 772 | 7533.4 | 764 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 13 | 1210 | 0.175969285 | 550 | 705 | 6876.2 | 678 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 14 | 991 | 0.154121306 | 450 | 659 | 6430 | 628 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 15 | 1004 | 0.16145113 | 435 | 638 | 6218.6 | 604 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 16 | 876 | 0.132053002 | 464 | 680 | 6633.7 | 651 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 17 | 810 | 0.131891751 | 429 | 630 | 6141.4 | 598 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 18 | 1280 | 0.189021959 | 487 | 694 | 6771.7 | 670 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 19 | 961 | 0.14275104 | 478 | 690 | 6732 | 671 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 20 | 859 | 0.12845244 | 481 | 686 | 6687.3 | 667 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 21 | 844 | 0.135508317 | 423 | 639 | 6228.4 | 610 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 22 | 615 | 0.120425307 | 357 | 524 | 5106.9 | 485 |
| FL | Crystal River | 4 | 2013 | 11/5/2013 | 23 | 278 | 0.081296058 | 253 | 350 | 3419.6 | 294 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 0 | 173 | 0.061918397 | 212 | 286 | 2794 | 226 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 1 | 166 | 0.060092673 | 212 | 283 | 2762.4 | 226 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 2 | 159 | 0.057214825 | 216 | 285 | 2779 | 226 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 3 | 161 | 0.058814934 | 199 | 280 | 2737.4 | 226 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 4 | 181 | 0.064698313 | 201 | 287 | 2797.6 | 225 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 5 | 172 | 0.062011032 | 194 | 284 | 2773.7 | 226 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 6 | 248 | 0.0817888 | 209 | 311 | 3032.2 | 257 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 7 | 248 | 0.074604416 | 216 | 341 | 3324.2 | 290 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 8 | 342 | 0.088049019 | 240 | 398 | 3884.2 | 356 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 9 | 814 | 0.150201129 | 303 | 556 | 5419.4 | 518 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 10 | 799 | 0.128576486 | 372 | 637 | 6214.2 | 603 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 11 | 635 | 0.103737829 | 391 | 628 | 6121.2 | 588 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 12 | 608 | 0.104275644 | 419 | 598 | 5830.7 | 557 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 13 | 728 | 0.124401914 | 438 | 600 | 5852 | 556 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 14 | 1042 | 0.165155646 | 511 | 647 | 6309.2 | 607 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 15 | 733 | 0.118277314 | 539 | 635 | 6197.3 | 599 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 16 | 614 | 0.105326357 | 489 | 598 | 5829.5 | 557 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 17 | 849 | 0.144220969 | 488 | 604 | 5886.8 | 562 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 18 | 1111 | 0.166230269 | 588 | 685 | 6683.5 | 653 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 19 | 941 | 0.140040182 | 624 | 689 | 6719.5 | 660 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 20 | 1126 | 0.167746741 | 604 | 688 | 6712.5 | 660 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 21 | 1165 | 0.178058324 | 569 | 671 | 6542.8 | 640 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 22 | 1108 | 0.170684742 | 512 | 666 | 6491.5 | 631 |
| FL | Crystal River | 4 | 2013 | 11/6/2013 | 23 | 561 | 0.106916201 | 393 | 538 | 5247.1 | 492 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 0 | 175 | 0.054027353 | 262 | 332 | 3239.1 | 270 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 1 | 205 | 0.072785372 | 214 | 289 | 2816.5 | 226 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 2 | 194 | 0.06998557 | 205 | 284 | 2772 | 226 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 3 | 169 | 0.061334108 | 192 | 282 | 2755.4 | 226 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 4 | 184 | 0.066763425 | 198 | 282 | 2756 | 225 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 5 | 176 | 0.064360418 | 188 | 280 | 2734.6 | 226 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 6 | 233 | 0.079709897 | 195 | 299 | 2923.1 | 243 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 7 | 341 | 0.095451365 | 253 | 366 | 3572.5 | 316 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 8 | 342 | 0.086191688 | 277 | 407 | 3967.9 | 357 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 9 | 489 | 0.109543011 | 285 | 458 | 4464 | 408 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 10 | 487 | 0.097915033 | 318 | 510 | 4973.7 | 459 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 11 | 885 | 0.16517049 | 337 | 549 | 5358.1 | 504 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 12 | 1148 | 0.178235961 | 405 | 660 | 6440.9 | 626 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 13 | 713 | 0.122622364 | 389 | 596 | 5814.6 | 562 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 14 | 1246 | 0.211046935 | 371 | 605 | 5903.9 | 567 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 15 | 1104 | 0.181713439 | 382 | 623 | 6075.5 | 584 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 16 | 655 | 0.105378316 | 416 | 637 | 6215.7 | 604 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 17 | 1139 | 0.178227737 | 402 | 655 | 6390.7 | 619 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 18 | 988 | 0.147150815 | 436 | 688 | 6714.2 | 660 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 19 | 855 | 0.128270523 | 453 | 683 | 6665.6 | 660 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 20 | 914 | 0.139271946 | 433 | 673 | 6562.7 | 650 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 21 | 672 | 0.120102945 | 346 | 574 | 5595.2 | 533 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 22 | 535 | 0.111442081 | 288 | 492 | 4800.7 | 438 |
| FL | Crystal River | 4 | 2013 | 11/7/2013 | 23 | 205 | 0.061353365 | 210 | 342 | 3341.3 | 281 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 0 | 193 | 0.068702834 | 179 | 288 | 2809.2 | 226 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 1 | 180 | 0.06525522 | 179 | 283 | 2758.4 | 226 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 2 | 181 | 0.066171901 | 177 | 280 | 2735.3 | 226 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 3 | 199 | 0.071789322 | 183 | 284 | 2772 | 226 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 4 | 182 | 0.066698428 | 188 | 280 | 2728.7 | 226 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 5 | 180 | 0.06549265 | 184 | 282 | 2748.4 | 231 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 6 | 248 | 0.080435911 | 194 | 316 | 3083.2 | 262 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 7 | 287 | 0.080667828 | 227 | 365 | 3557.8 | 318 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 8 | 293 | 0.075422158 | 244 | 398 | 3884.8 | 355 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 9 | 276 | 0.071319672 | 259 | 397 | 3869.9 | 357 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 10 | 358 | 0.086184068 | 265 | 426 | 4153.9 | 388 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 11 | 562 | 0.113834312 | 320 | 506 | 4937 | 482 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 12 | 826 | 0.139924109 | 436 | 605 | 5903.2 | 584 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 13 | 926 | 0.148492623 | 511 | 639 | 6236 | 617 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 14 | 794 | 0.132538768 | 563 | 614 | 5990.7 | 584 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 15 | 934 | 0.155399897 | 577 | 616 | 6010.3 | 580 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 16 | 918 | 0.148133805 | 576 | 635 | 6197.1 | 604 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 17 | 694 | 0.118252454 | 369 | 602 | 5868.8 | 571 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 18 | 1070 | 0.163231682 | 452 | 672 | 6555.1 | 655 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 19 | 1030 | 0.154138545 | 467 | 685 | 6682.3 | 672 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 20 | 745 | 0.123356625 | 374 | 619 | 6039.4 | 597 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 21 | 555 | 0.110353329 | 281 | 516 | 5029.3 | 489 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 22 | 371 | 0.086743044 | 243 | 438 | 4277 | 397 |
| FL | Crystal River | 4 | 2013 | 11/8/2013 | 23 | 207 | 0.059724747 | 208 | 355 | 3465.9 | 306 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 0 | 162 | 0.054176978 | 194 | 306 | 2990.2 | 252 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 1 | 126 | 0.04634909 | 184 | 278 | 2718.5 | 228 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 2 | 120 | 0.044081993 | 190 | 279 | 2722.2 | 226 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 3 | 122 | 0.04457598 | 194 | 280 | 2736.9 | 226 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 4 | 117 | 0.042630716 | 197 | 281 | 2744.5 | 225 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 5 | 112 | 0.040706549 | 198 | 282 | 2751.4 | 226 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 6 | 161 | 0.055593923 | 202 | 297 | 2896 | 241 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 7 | 162 | 0.05394785 | 210 | 308 | 3002.9 | 256 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 8 | 164 | 0.050810174 | 213 | 331 | 3227.7 | 282 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 9 | 302 | 0.072704512 | 253 | 426 | 4153.8 | 375 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 10 | 255 | 0.059376892 | 262 | 440 | 4294.6 | 392 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 11 | 536 | 0.099681985 | 328 | 551 | 5377.1 | 517 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 12 | 743 | 0.120298561 | 426 | 633 | 6176.3 | 606 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 13 | 527 | 0.090123985 | 421 | 600 | 5847.5 | 558 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 14 | 695 | 0.112419527 | 445 | 634 | 6182.2 | 596 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 15 | 887 | 0.137790689 | 437 | 660 | 6437.3 | 624 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 16 | 630 | 0.109416791 | 362 | 590 | 5757.8 | 545 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 17 | 654 | 0.1213088 | 318 | 553 | 5391.2 | 507 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 18 | 633 | 0.109871036 | 334 | 591 | 5761.3 | 545 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 19 | 478 | 0.098043237 | 282 | 500 | 4875.4 | 453 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 20 | 323 | 0.075750469 | 247 | 437 | 4264 | 382 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 21 | 161 | 0.046241778 | 215 | 357 | 3481.7 | 301 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 22 | 122 | 0.040146105 | 197 | 311 | 3038.9 | 251 |
| FL | Crystal River | 4 | 2013 | 11/9/2013 | 23 | 112 | 0.037900579 | 195 | 303 | 2955.1 | 251 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 0 | 89 | 0.031370061 | 187 | 291 | 2837.1 | 240 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 1 | 76 | 0.028409091 | 187 | 274 | 2675.2 | 226 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 2 | 73 | 0.027307074 | 189 | 274 | 2673.3 | 226 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 3 | 67 | 0.025153927 | 189 | 273 | 2663.6 | 226 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 4 | 67 | 0.025046729 | 198 | 274 | 2675 | 225 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 5 | 68 | 0.025109856 | 195 | 277 | 2708.1 | 225 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 6 | 107 | 0.039557839 | 197 | 277 | 2704.9 | 225 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 7 | 97 | 0.035659143 | 204 | 279 | 2720.2 | 230 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 8 | 142 | 0.044456968 | 220 | 327 | 3194.1 | 278 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 9 | 136 | 0.043092522 | 211 | 323 | 3156 | 276 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 10 | 362 | 0.082418833 | 281 | 450 | 4392.2 | 402 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 11 | 656 | 0.112627693 | 378 | 597 | 5824.5 | 561 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 12 | 1022 | 0.142566191 | 595 | 735 | 7168.6 | 703 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 13 | 912 | 0.117681975 | 713 | 795 | 7749.7 | 771 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 14 | 1036 | 0.133699846 | 604 | 795 | 7748.7 | 768 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 15 | 1047 | 0.135365759 | 595 | 793 | 7734.6 | 770 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 16 | 988 | 0.127533239 | 596 | 794 | 7747 | 769 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 17 | 1110 | 0.143192549 | 581 | 795 | 7751.8 | 768 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 18 | 915 | 0.126805067 | 497 | 740 | 7215.8 | 719 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 19 | 804 | 0.124279288 | 427 | 663 | 6469.3 | 632 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 20 | 779 | 0.134814738 | 352 | 592 | 5778.3 | 548 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 21 | 732 | 0.142174572 | 278 | 528 | 5148.6 | 482 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 22 | 344 | 0.085062189 | 226 | 414 | 4044.1 | 359 |
| FL | Crystal River | 4 | 2013 | 11/10/2013 | 23 | 181 | 0.058758603 | 194 | 316 | 3080.4 | 258 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 0 | 148 | 0.051835248 | 179 | 292 | 2855.2 | 241 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 1 | 105 | 0.038814136 | 175 | 277 | 2705.2 | 226 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 2 | 114 | 0.041401852 | 179 | 282 | 2753.5 | 226 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 3 | 105 | 0.038804095 | 178 | 277 | 2705.9 | 226 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 4 | 104 | 0.038162337 | 185 | 279 | 2725.2 | 226 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 5 | 114 | 0.040333994 | 186 | 290 | 2826.4 | 237 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 6 | 195 | 0.060956549 | 204 | 328 | 3199 | 276 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 7 | 244 | 0.064322244 | 265 | 389 | 3793.4 | 339 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 8 | 231 | 0.056954067 | 267 | 416 | 4055.9 | 364 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 9 | 374 | 0.076265829 | 304 | 503 | 4903.9 | 469 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 10 | 899 | 0.135031618 | 432 | 683 | 6657.7 | 656 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 11 | 959 | 0.125970392 | 639 | 781 | 7612.9 | 764 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 12 | 699 | 0.090982454 | 637 | 788 | 7682.8 | 768 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 13 | 664 | 0.086916683 | 595 | 783 | 7639.5 | 767 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 14 | 703 | 0.091977182 | 558 | 784 | 7643.2 | 759 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 15 | 766 | 0.09956845 | 584 | 789 | 7693.2 | 768 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 16 | 718 | 0.092546047 | 597 | 796 | 7758.3 | 767 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 17 | 480 | 0.068578286 | 629 | 718 | 6999.3 | 685 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 18 | 453 | 0.064720758 | 587 | 718 | 6999.3 | 680 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 19 | 432 | 0.062383572 | 595 | 710 | 6924.9 | 676 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 20 | 383 | 0.058230581 | 559 | 674 | 6577.3 | 642 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 21 | 295 | 0.048695939 | 478 | 621 | 6058 | 583 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 22 | 296 | 0.04893209 | 465 | 620 | 6049.2 | 594 |
| FL | Crystal River | 4 | 2013 | 11/11/2013 | 23 | 220 | 0.040234825 | 442 | 561 | 5467.9 | 524 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 0 | 146 | 0.031213255 | 355 | 479 | 4677.5 | 440 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 1 | 83 | 0.023199911 | 329 | 367 | 3577.6 | 319 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 2 | 54 | 0.018421861 | 316 | 300 | 2931.3 | 251 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 3 | 70 | 0.023847648 | 311 | 301 | 2935.3 | 252 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 4 | 86 | 0.029334516 | 304 | 300 | 2931.7 | 253 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 5 | 107 | 0.03445278 | 313 | 318 | 3105.7 | 272 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 6 | 299 | 0.066407551 | 351 | 462 | 4502.5 | 425 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 7 | 445 | 0.074835194 | 398 | 610 | 5946.4 | 581 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 8 | 494 | 0.075318656 | 459 | 672 | 6558.8 | 653 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 9 | 683 | 0.104147606 | 531 | 672 | 6558 | 641 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 10 | 714 | 0.121847162 | 527 | 601 | 5859.8 | 558 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 11 | 1124 | 0.162223794 | 630 | 710 | 6928.7 | 673 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 12 | 1230 | 0.159557908 | 763 | 790 | 7708.8 | 770 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 13 | 1012 | 0.131818892 | 767 | 787 | 7677.2 | 768 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 14 | 339 | 0.04848953 | 664 | 717 | 6991.2 | 688 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 15 | 298 | 0.046711393 | 567 | 654 | 6379.6 | 619 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 16 | 469 | 0.077241061 | 534 | 623 | 6071.9 | 578 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 17 | 1166 | 0.174736621 | 560 | 684 | 6672.9 | 650 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 18 | 966 | 0.145381212 | 558 | 681 | 6644.6 | 632 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 19 | 879 | 0.129127982 | 565 | 698 | 6807.2 | 643 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 20 | 897 | 0.133998596 | 548 | 686 | 6694.1 | 627 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 21 | 750 | 0.123856393 | 490 | 621 | 6055.4 | 557 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 22 | 697 | 0.125862256 | 443 | 568 | 5537.8 | 495 |
| FL | Crystal River | 4 | 2013 | 11/12/2013 | 23 | 320 | 0.079406437 | 378 | 413 | 4029.9 | 338 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 0 | 268 | 0.07935333 | 337 | 346 | 3377.3 | 275 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 1 | 179 | 0.060413784 | 302 | 304 | 2962.9 | 239 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 2 | 156 | 0.056165617 | 294 | 285 | 2777.5 | 226 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 3 | 149 | 0.054886359 | 287 | 278 | 2714.7 | 226 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 4 | 144 | 0.05292561 | 283 | 279 | 2720.8 | 226 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 5 | 270 | 0.079209083 | 317 | 349 | 3408.7 | 301 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 6 | 559 | 0.105015968 | 351 | 546 | 5323 | 507 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 7 | 512 | 0.089530837 | 366 | 586 | 5718.7 | 557 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 8 | 509 | 0.08991662 | 520 | 580 | 5660.8 | 547 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 9 | 497 | 0.092509865 | 381 | 551 | 5372.4 | 507 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 10 | 420 | 0.085612948 | 397 | 503 | 4905.8 | 458 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 11 | 422 | 0.085913801 | 378 | 504 | 4911.9 | 459 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 12 | 639 | 0.114160146 | 397 | 574 | 5597.4 | 536 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 13 | 777 | 0.124272279 | 437 | 641 | 6252.4 | 617 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 14 | 755 | 0.114694578 | 599 | 675 | 6582.7 | 659 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 15 | 657 | 0.098980068 | 484 | 681 | 6637.7 | 661 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 16 | 556 | 0.090837799 | 599 | 628 | 6120.8 | 604 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 17 | 636 | 0.101607183 | 625 | 642 | 6259.4 | 619 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 18 | 765 | 0.115861693 | 673 | 677 | 6602.7 | 660 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 19 | 644 | 0.098565897 | 352 | 670 | 6533.7 | 652 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 20 | 557 | 0.086652147 | 469 | 659 | 6428 | 651 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 21 | 471 | 0.078780986 | 352 | 613 | 5978.6 | 593 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 22 | 469 | 0.081945731 | 286 | 587 | 5723.3 | 558 |
| FL | Crystal River | 4 | 2013 | 11/13/2013 | 23 | 239 | 0.055107217 | 234 | 445 | 4337 | 400 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 0 | 221 | 0.061585621 | 186 | 368 | 3588.5 | 323 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 1 | 144 | 0.050106128 | 175 | 294 | 2873.9 | 244 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 2 | 127 | 0.047092851 | 97 | 276 | 2696.8 | 226 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 3 | 116 | 0.042453521 | 84 | 280 | 2732.4 | 226 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 4 | 117 | 0.041785714 | 89 | 287 | 2800 | 235 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 5 | 263 | 0.072274588 | 138 | 373 | 3638.9 | 327 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 6 | 828 | 0.141308985 | 392 | 601 | 5859.5 | 564 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 7 | 824 | 0.126018933 | 549 | 670 | 6538.7 | 659 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 8 | 772 | 0.121914628 | 411 | 649 | 6332.3 | 634 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 9 | 722 | 0.124371253 | 359 | 595 | 5805.2 | 582 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 10 | 553 | 0.101315452 | 354 | 560 | 5458.2 | 542 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 11 | 553 | 0.099569672 | 288 | 569 | 5553.9 | 551 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 12 | 722 | 0.120948153 | 352 | 612 | 5969.5 | 590 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 13 | 1063 | 0.165447471 | 411 | 659 | 6425 | 650 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 14 | 941 | 0.144349507 | 436 | 668 | 6518.9 | 660 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 15 | 823 | 0.129057551 | 420 | 654 | 6377 | 653 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 16 | 690 | 0.114614132 | 385 | 617 | 6020.2 | 605 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 17 | 911 | 0.153310222 | 374 | 609 | 5942.2 | 592 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 18 | 988 | 0.152941176 | 426 | 662 | 6460 | 660 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 19 | 857 | 0.128680611 | 472 | 683 | 6659.9 | 676 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 20 | 876 | 0.13073261 | 462 | 687 | 6700.7 | 680 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 21 | 871 | 0.132143887 | 428 | 676 | 6591.3 | 671 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 22 | 675 | 0.111014259 | 401 | 623 | 6080.3 | 621 |
| FL | Crystal River | 4 | 2013 | 11/14/2013 | 23 | 364 | 0.074619216 | 287 | 500 | 4878.1 | 478 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 0 | 199 | 0.053557972 | 222 | 381 | 3715.6 | 343 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 1 | 119 | 0.043123754 | 176 | 283 | 2759.5 | 241 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 2 | 111 | 0.041712074 | 173 | 273 | 2661.1 | 226 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 3 | 101 | 0.03804573 | 172 | 272 | 2654.7 | 225 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 4 | 99 | 0.037089765 | 176 | 273 | 2669.2 | 225 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 5 | 132 | 0.044638328 | 198 | 303 | 2957.1 | 258 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 6 | 468 | 0.102034142 | 293 | 470 | 4586.7 | 432 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 7 | 692 | 0.119203473 | 377 | 595 | 5805.2 | 579 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 8 | 628 | 0.103734783 | 417 | 621 | 6053.9 | 613 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 9 | 783 | 0.11855194 | 468 | 677 | 6604.7 | 675 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 10 | 920 | 0.130252577 | 529 | 724 | 7063.2 | 726 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 11 | 986 | 0.13445149 | 586 | 752 | 7333.5 | 767 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 12 | 1009 | 0.137901815 | 585 | 750 | 7316.8 | 767 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 13 | 1077 | 0.145881588 | 583 | 757 | 7382.7 | 768 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 14 | 1109 | 0.149852715 | 577 | 759 | 7400.6 | 768 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 15 | 1068 | 0.146143215 | 570 | 749 | 7307.9 | 766 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 16 | 1070 | 0.145027718 | 568 | 757 | 7377.9 | 766 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 17 | 1079 | 0.14643812 | 589 | 756 | 7368.3 | 768 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 18 | 1077 | 0.147018674 | 578 | 751 | 7325.6 | 767 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 19 | 1071 | 0.146064045 | 571 | 752 | 7332.4 | 768 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 20 | 1050 | 0.142336212 | 553 | 756 | 7376.9 | 765 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 21 | 740 | 0.120299774 | 418 | 631 | 6151.3 | 627 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 22 | 1022 | 0.175231041 | 384 | 598 | 5832.3 | 585 |
| FL | Crystal River | 4 | 2013 | 11/15/2013 | 23 | 744 | 0.137729317 | 329 | 554 | 5401.9 | 532 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 0 | 403 | 0.087595366 | 280 | 472 | 4600.7 | 441 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 1 | 338 | 0.089146776 | 235 | 389 | 3791.5 | 353 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 2 | 209 | 0.072458744 | 190 | 295 | 2884.4 | 254 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 3 | 153 | 0.057236916 | 189 | 274 | 2673.1 | 225 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 4 | 154 | 0.057783948 | 191 | 273 | 2665.1 | 227 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 5 | 247 | 0.076987813 | 218 | 329 | 3208.3 | 284 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 6 | 638 | 0.14016741 | 282 | 467 | 4551.7 | 435 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 7 | 844 | 0.151858649 | 339 | 570 | 5557.8 | 554 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 8 | 999 | 0.157414557 | 412 | 651 | 6346.3 | 639 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 9 | 1192 | 0.16529384 | 555 | 739 | 7211.4 | 746 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 10 | 1030 | 0.138442721 | 632 | 763 | 7439.9 | 769 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 11 | 954 | 0.128538514 | 608 | 761 | 7421.9 | 768 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 12 | 1049 | 0.141093237 | 572 | 762 | 7434.8 | 766 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 13 | 1146 | 0.152476749 | 571 | 771 | 7515.9 | 768 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 14 | 1144 | 0.151360792 | 582 | 775 | 7558.1 | 767 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 15 | 1127 | 0.149334817 | 581 | 774 | 7546.8 | 767 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 16 | 1142 | 0.150842711 | 583 | 776 | 7570.8 | 767 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 17 | 1109 | 0.146124858 | 592 | 778 | 7589.4 | 768 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 18 | 1063 | 0.140076693 | 591 | 778 | 7588.7 | 767 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 19 | 1019 | 0.13506707 | 596 | 774 | 7544.4 | 769 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 20 | 1003 | 0.132517704 | 590 | 776 | 7568.8 | 768 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 21 | 1108 | 0.146376907 | 567 | 776 | 7569.5 | 767 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 22 | 1071 | 0.150486869 | 512 | 730 | 7116.9 | 720 |
| FL | Crystal River | 4 | 2013 | 11/16/2013 | 23 | 567 | 0.098624132 | 379 | 589 | 5749.1 | 557 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 0 | 363 | 0.071591985 | 329 | 520 | 5070.4 | 473 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 1 | 260 | 0.062587261 | 270 | 426 | 4154.2 | 379 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 2 | 146 | 0.04789712 | 198 | 312 | 3048.2 | 260 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 3 | 120 | 0.043993108 | 190 | 279 | 2727.7 | 226 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 4 | 120 | 0.043946385 | 196 | 280 | 2730.6 | 226 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 5 | 116 | 0.042461291 | 199 | 280 | 2731.9 | 226 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 6 | 216 | 0.06651475 | 230 | 333 | 3247.4 | 277 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 7 | 415 | 0.093405357 | 271 | 455 | 4443 | 412 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 8 | 826 | 0.134383236 | 393 | 630 | 6146.6 | 601 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 9 | 1126 | 0.151443827 | 550 | 762 | 7435.1 | 744 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 10 | 1035 | 0.136458924 | 584 | 778 | 7584.7 | 766 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 11 | 970 | 0.127631579 | 600 | 779 | 7600 | 767 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 12 | 1002 | 0.130649073 | 621 | 786 | 7669.4 | 767 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 13 | 1039 | 0.13582232 | 634 | 784 | 7649.7 | 766 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 14 | 1086 | 0.142366482 | 610 | 782 | 7628.2 | 767 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 15 | 1092 | 0.143761766 | 592 | 779 | 7595.9 | 766 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 16 | 1088 | 0.142926579 | 586 | 781 | 7612.3 | 767 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 17 | 1169 | 0.153213017 | 579 | 782 | 7629.9 | 766 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 18 | 1204 | 0.157266386 | 566 | 785 | 7655.8 | 763 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 19 | 1136 | 0.149402914 | 570 | 780 | 7603.6 | 767 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 20 | 1092 | 0.143472777 | 586 | 780 | 7611.2 | 767 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 21 | 1084 | 0.141662311 | 573 | 785 | 7652 | 766 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 22 | 1075 | 0.140732595 | 572 | 783 | 7638.6 | 764 |
| FL | Crystal River | 4 | 2013 | 11/17/2013 | 23 | 930 | 0.128065658 | 501 | 745 | 7261.9 | 719 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 0 | 510 | 0.088339223 | 357 | 592 | 5773.2 | 547 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 1 | 271 | 0.058697394 | 267 | 473 | 4616.9 | 421 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 2 | 286 | 0.065443229 | 253 | 448 | 4370.2 | 391 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 3 | 431 | 0.096749573 | 267 | 457 | 4454.8 | 397 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 4 | 769 | 0.156453451 | 290 | 504 | 4915.2 | 451 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 5 | 975 | 0.166311301 | 381 | 601 | 5862.5 | 563 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 6 | 1610 | 0.215327003 | 545 | 767 | 7477 | 738 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 7 | 1157 | 0.15229295 | 645 | 779 | 7597.2 | 768 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 8 | 925 | 0.122367446 | 627 | 775 | 7559.2 | 766 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 9 | 987 | 0.130135541 | 637 | 778 | 7584.4 | 765 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 10 | 1127 | 0.148430092 | 668 | 779 | 7592.8 | 766 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 11 | 1208 | 0.157887858 | 734 | 785 | 7651 | 766 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 12 | 1154 | 0.150554468 | 728 | 786 | 7665 | 765 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 13 | 1058 | 0.138165198 | 727 | 785 | 7657.5 | 766 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 14 | 1031 | 0.135419129 | 730 | 781 | 7613.4 | 765 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 15 | 996 | 0.131351629 | 720 | 778 | 7582.7 | 765 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 16 | 1075 | 0.141661725 | 622 | 778 | 7588.5 | 765 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 17 | 1295 | 0.170291666 | 562 | 780 | 7604.6 | 764 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 18 | 1364 | 0.177191182 | 592 | 789 | 7697.9 | 766 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 19 | 1145 | 0.148799854 | 577 | 789 | 7694.9 | 768 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 20 | 959 | 0.124842157 | 599 | 788 | 7681.7 | 770 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 21 | 1074 | 0.139567523 | 607 | 789 | 7695.2 | 768 |
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 22 | 1107 | 0.161081443 | 481 | 705 | 6872.3 | 680 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/18/2013 | 23 | 719 | 0.128943168 | 340 | 572 | 5576.1 | 524 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 0 | 402 | 0.097334205 | 247 | 423 | 4130.1 | 365 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 1 | 253 | 0.081429031 | 174 | 318 | 3107 | 259 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 2 | 169 | 0.059708875 | 181 | 290 | 2830.4 | 226 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 3 | 132 | 0.046816811 | 177 | 289 | 2819.5 | 226 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 4 | 132 | 0.046423296 | 184 | 291 | 2843.4 | 225 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 5 | 273 | 0.077181872 | 212 | 362 | 3537.1 | 305 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 6 | 846 | 0.174869261 | 295 | 496 | 4837.9 | 452 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 7 | 1918 | 0.301193467 | 420 | 653 | 6368 | 631 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 8 | 2154 | 0.30138098 | 536 | 733 | 7147.1 | 722 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 9 | 2005 | 0.267937085 | 576 | 767 | 7483.1 | 764 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 10 | 1557 | 0.207974354 | 583 | 768 | 7486.5 | 770 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 11 | 626 | 0.083956975 | 589 | 765 | 7456.2 | 769 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 12 | 585 | 0.078219013 | 643 | 767 | 7479 | 767 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 13 | 662 | 0.088054163 | 684 | 771 | 7518.1 | 768 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 14 | 759 | 0.099538373 | 678 | 782 | 7625.2 | 768 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 15 | 700 | 0.091976979 | 677 | 780 | 7610.6 | 769 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 16 | 676 | 0.089018818 | 668 | 779 | 7593.9 | 769 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 17 | 768 | 0.100763599 | 670 | 782 | 7621.8 | 768 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 18 | 866 | 0.113316672 | 687 | 784 | 7642.3 | 770 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 19 | 908 | 0.120355765 | 709 | 774 | 7544.3 | 769 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 20 | 841 | 0.111556216 | 708 | 773 | 7538.8 | 770 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 21 | 674 | 0.096059289 | 631 | 719 | 7016.5 | 714 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 22 | 412 | 0.072169283 | 485 | 585 | 5708.8 | 552 |
| FL | Crystal River | 4 | 2013 | 11/19/2013 | 23 | 199 | 0.046899672 | 309 | 435 | 4243.1 | 392 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 0 | 98 | 0.032441737 | 178 | 309 | 3020.8 | 259 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 1 | 94 | 0.032907404 | 188 | 293 | 2856.5 | 235 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 2 | 100 | 0.03646973 | 189 | 281 | 2742 | 226 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 3 | 111 | 0.040162096 | 193 | 283 | 2763.8 | 226 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 4 | 110 | 0.039589707 | 194 | 285 | 2778.5 | 226 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 5 | 106 | 0.037238714 | 202 | 292 | 2846.5 | 231 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 6 | 262 | 0.068405525 | 256 | 393 | 3830.1 | 338 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 7 | 363 | 0.076742564 | 316 | 485 | 4730.1 | 442 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 8 | 314 | 0.065919301 | 304 | 488 | 4763.4 | 446 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 9 | 332 | 0.067188796 | 321 | 507 | 4941.3 | 462 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 10 | 493 | 0.08709478 | 379 | 580 | 5660.5 | 545 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 11 | 920 | 0.13141543 | 511 | 718 | 7000.7 | 705 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 12 | 1119 | 0.147349293 | 607 | 779 | 7594.2 | 767 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 13 | 1075 | 0.141725224 | 599 | 778 | 7585.1 | 768 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 14 | 1032 | 0.136435748 | 582 | 776 | 7564 | 766 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 15 | 1066 | 0.139328192 | 581 | 785 | 7651 | 768 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 16 | 1101 | 0.143501382 | 598 | 787 | 7672.4 | 766 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 17 | 1074 | 0.139652818 | 761 | 789 | 7690.5 | 769 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 18 | 1098 | 0.143510652 | 757 | 785 | 7651 | 766 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 19 | 1073 | 0.139646264 | 737 | 788 | 7683.7 | 768 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 20 | 1071 | 0.139653149 | 736 | 786 | 7669 | 768 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 21 | 1001 | 0.132367137 | 695 | 775 | 7562.3 | 755 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 22 | 682 | 0.109161918 | 524 | 641 | 6247.6 | 605 |
| FL | Crystal River | 4 | 2013 | 11/20/2013 | 23 | 387 | 0.079895949 | 251 | 497 | 4843.8 | 442 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 0 | 344 | 0.072963285 | 264 | 483 | 4714.7 | 424 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 1 | 166 | 0.045954101 | 213 | 370 | 3612.3 | 314 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 2 | 126 | 0.041310121 | 192 | 312 | 3050.1 | 245 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 3 | 119 | 0.04156334 | 180 | 293 | 2863.1 | 226 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 4 | 106 | 0.037196898 | 185 | 292 | 2849.7 | 226 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 5 | 172 | 0.048694864 | 226 | 362 | 3532.2 | 299 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 6 | 939 | 0.162755226 | 357 | 591 | 5769.4 | 538 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 7 | 1013 | 0.134843725 | 570 | 770 | 7512.4 | 743 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 8 | 716 | 0.093143058 | 630 | 788 | 7687.1 | 768 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 9 | 733 | 0.096085782 | 617 | 782 | 7628.6 | 768 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 10 | 790 | 0.102706779 | 623 | 789 | 7691.8 | 766 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 11 | 630 | 0.081430067 | 618 | 793 | 7736.7 | 768 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 12 | 1076 | 0.138067314 | 615 | 799 | 7793.3 | 768 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 13 | 1081 | 0.14083773 | 621 | 787 | 7675.5 | 765 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 14 | 810 | 0.105148376 | 616 | 790 | 7703.4 | 767 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 15 | 876 | 0.113651107 | 616 | 790 | 7707.8 | 766 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 16 | 919 | 0.119208219 | 624 | 791 | 7709.2 | 767 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 17 | 881 | 0.115005548 | 620 | 786 | 7660.5 | 767 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 18 | 910 | 0.117449664 | 635 | 794 | 7748 | 767 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 19 | 956 | 0.124178422 | 623 | 789 | 7698.6 | 767 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 20 | 956 | 0.123847031 | 609 | 792 | 7719.2 | 767 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 21 | 942 | 0.121821897 | 610 | 793 | 7732.6 | 770 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 22 | 903 | 0.119773981 | 595 | 773 | 7539.2 | 754 |
| FL | Crystal River | 4 | 2013 | 11/21/2013 | 23 | 676 | 0.106122449 | 445 | 653 | 6370 | 621 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 0 | 431 | 0.085226711 | 298 | 518 | 5057.1 | 474 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 1 | 238 | 0.060796485 | 227 | 401 | 3914.7 | 344 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 2 | 141 | 0.047780413 | 191 | 302 | 2951 | 238 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 3 | 153 | 0.053078925 | 198 | 295 | 2882.5 | 226 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 4 | 140 | 0.048274197 | 194 | 297 | 2900.1 | 230 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 5 | 200 | 0.058436815 | 225 | 351 | 3422.5 | 291 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 6 | 571 | 0.106900813 | 320 | 548 | 5341.4 | 503 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 7 | 657 | 0.104517976 | 421 | 644 | 6286 | 615 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 8 | 564 | 0.085025553 | 471 | 680 | 6633.3 | 657 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 9 | 635 | 0.083940303 | 582 | 776 | 7564.9 | 749 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 10 | 666 | 0.086358921 | 617 | 791 | 7712 | 767 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 11 | 783 | 0.101352663 | 594 | 792 | 7725.5 | 765 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 12 | 1178 | 0.152881783 | 585 | 790 | 7705.3 | 768 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 13 | 1185 | 0.153173998 | 603 | 793 | 7736.3 | 766 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 14 | 945 | 0.121792476 | 597 | 796 | 7759.1 | 767 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 15 | 943 | 0.121822034 | 596 | 794 | 7740.8 | 764 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 16 | 1033 | 0.133085971 | 621 | 796 | 7761.9 | 766 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 17 | 1029 | 0.133119445 | 602 | 793 | 7729.9 | 766 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 18 | 1035 | 0.134253434 | 601 | 791 | 7709.3 | 768 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 19 | 945 | 0.121828589 | 605 | 795 | 7756.8 | 769 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 20 | 952 | 0.122737352 | 612 | 795 | 7756.4 | 767 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 21 | 931 | 0.124675255 | 567 | 766 | 7467.4 | 735 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 22 | 665 | 0.104374304 | 426 | 653 | 6371.3 | 610 |
| FL | Crystal River | 4 | 2013 | 11/22/2013 | 23 | 436 | 0.078139001 | 373 | 572 | 5579.8 | 516 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 0 | 329 | 0.066415003 | 322 | 508 | 4953.7 | 444 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 1 | 189 | 0.048674959 | 256 | 398 | 3882.9 | 336 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 2 | 127 | 0.04058675 | 203 | 321 | 3129.1 | 252 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 3 | 139 | 0.045337421 | 205 | 314 | 3065.9 | 252 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 4 | 139 | 0.04529753 | 208 | 314 | 3068.6 | 252 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 5 | 137 | 0.044835711 | 201 | 313 | 3055.6 | 252 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 6 | 180 | 0.058572777 | 212 | 315 | 3073.1 | 253 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 7 | 219 | 0.063646139 | 240 | 353 | 3440.9 | 293 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 8 | 527 | 0.100396251 | 330 | 538 | 5249.2 | 486 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 9 | 697 | 0.109044259 | 447 | 655 | 6391.9 | 618 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 10 | 820 | 0.113499522 | 549 | 741 | 7224.7 | 704 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 11 | 1006 | 0.12889669 | 647 | 800 | 7804.7 | 767 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 12 | 1048 | 0.134642068 | 646 | 798 | 7783.6 | 767 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 13 | 1066 | 0.137326892 | 613 | 796 | 7762.5 | 767 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 14 | 1099 | 0.142037377 | 611 | 793 | 7737.4 | 768 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 15 | 1101 | 0.142627665 | 609 | 792 | 7719.4 | 767 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 16 | 1088 | 0.140788571 | 595 | 792 | 7727.9 | 766 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 17 | 1013 | 0.131715816 | 584 | 789 | 7690.8 | 763 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 18 | 987 | 0.128221783 | 585 | 789 | 7697.6 | 765 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 19 | 1135 | 0.14814138 | 589 | 786 | 7661.6 | 764 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 20 | 1195 | 0.157878744 | 575 | 776 | 7569.1 | 753 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 21 | 774 | 0.126268394 | 410 | 628 | 6129.8 | 587 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 22 | 861 | 0.141672426 | 382 | 623 | 6077.4 | 574 |
| FL | Crystal River | 4 | 2013 | 11/23/2013 | 23 | 758 | 0.139635989 | 352 | 557 | 5428.4 | 508 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 0 | 445 | 0.110367063 | 258 | 413 | 4032 | 360 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 1 | 313 | 0.101656382 | 194 | 315 | 3079 | 259 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 2 | 258 | 0.085495576 | 193 | 309 | 3017.7 | 252 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 3 | 254 | 0.083420914 | 191 | 312 | 3044.8 | 252 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 4 | 251 | 0.081610092 | 199 | 315 | 3075.6 | 252 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 5 | 239 | 0.079099785 | 202 | 310 | 3021.5 | 252 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 6 | 266 | 0.087147397 | 201 | 313 | 3052.3 | 252 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 7 | 252 | 0.082328727 | 205 | 314 | 3060.9 | 254 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 8 | 490 | 0.123310768 | 258 | 407 | 3973.7 | 352 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 9 | 1017 | 0.152022482 | 441 | 686 | 6689.8 | 654 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 10 | 1048 | 0.138247632 | 568 | 777 | 7580.6 | 765 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 11 | 995 | 0.131485054 | 582 | 776 | 7567.4 | 765 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 12 | 1101 | 0.144060922 | 596 | 784 | 7642.6 | 766 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 13 | 1156 | 0.150471852 | 606 | 788 | 7682.5 | 766 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 14 | 1099 | 0.142963069 | 599 | 788 | 7687.3 | 767 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 15 | 1084 | 0.141037484 | 614 | 788 | 7685.9 | 768 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 16 | 1059 | 0.136986301 | 610 | 793 | 7730.7 | 767 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 17 | 1058 | 0.137283143 | 601 | 790 | 7706.7 | 768 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 18 | 1076 | 0.14009687 | 591 | 788 | 7680.4 | 767 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 19 | 1144 | 0.149349208 | 589 | 785 | 7659.9 | 767 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 20 | 1150 | 0.151593045 | 584 | 778 | 7586.1 | 767 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 21 | 777 | 0.117689826 | 468 | 677 | 6602.1 | 653 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 22 | 688 | 0.11818869 | 390 | 597 | 5821.2 | 561 |
| FL | Crystal River | 4 | 2013 | 11/24/2013 | 23 | 452 | 0.101379388 | 272 | 457 | 4458.5 | 414 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 0 | 209 | 0.064059339 | 205 | 334 | 3262.6 | 280 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 1 | 165 | 0.054190751 | 197 | 312 | 3044.8 | 252 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 2 | 149 | 0.049376988 | 196 | 309 | 3017.6 | 252 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 3 | 148 | 0.049453671 | 203 | 307 | 2992.7 | 252 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 4 | 163 | 0.054630157 | 199 | 306 | 2983.7 | 252 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 5 | 173 | 0.055391906 | 193 | 320 | 3123.2 | 267 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 6 | 424 | 0.099724816 | 246 | 436 | 4251.7 | 392 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 7 | 847 | 0.146524582 | 1121 | 593 | 5780.6 | 552 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 8 | 960 | 0.144254609 | 519 | 682 | 6654.9 | 650 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 9 | 908 | 0.132506385 | 513 | 703 | 6852.5 | 681 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 10 | 996 | 0.137641303 | 564 | 742 | 7236.2 | 725 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 11 | 1092 | 0.144762309 | 618 | 774 | 7543.4 | 769 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 12 | 1084 | 0.144417799 | 615 | 770 | 7506 | 768 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 13 | 1080 | 0.142911964 | 665 | 775 | 7557.1 | 768 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 14 | 1051 | 0.138854025 | 832 | 776 | 7569.1 | 769 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 15 | 1039 | 0.137205187 | 840 | 776 | 7572.6 | 770 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 16 | 1059 | 0.141122853 | 893 | 769 | 7504.1 | 768 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 17 | 1071 | 0.140978557 | 1147 | 779 | 7596.9 | 770 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 18 | 1109 | 0.14723063 | 587 | 772 | 7532.4 | 771 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 19 | 1133 | 0.150492788 | 926 | 772 | 7528.6 | 772 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 20 | 1131 | 0.149611091 | 483 | 775 | 7559.6 | 771 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 21 | 1003 | 0.136421751 | 536 | 754 | 7352.2 | 744 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 22 | 746 | 0.122220948 | 97 | 626 | 6103.7 | 608 |
| FL | Crystal River | 4 | 2013 | 11/25/2013 | 23 | 768 | 0.135180328 | 380 | 582 | 5681.3 | 555 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 0 | 496 | 0.113821511 | 300 | 447 | 4357.7 | 419 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 1 | 213 | 0.069084069 | 148 | 316 | 3083.2 | 274 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 2 | 234 | 0.079086116 | 171 | 303 | 2958.8 | 252 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 3 | 217 | 0.072220188 | 204 | 308 | 3004.7 | 259 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 4 | 255 | 0.07717217 | 195 | 339 | 3304.3 | 291 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 5 | 504 | 0.124202174 | 418 | 416 | 4057.9 | 377 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 6 | 1663 | 0.240154808 | 623 | 710 | 6924.7 | 674 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 7 | 920 | 0.122410421 | 511 | 771 | 7515.7 | 767 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 8 | 826 | 0.110317195 | 643 | 768 | 7487.5 | 767 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 9 | 937 | 0.124211252 | 580 | 774 | 7543.6 | 768 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 10 | 1140 | 0.152288333 | 539 | 768 | 7485.8 | 767 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 11 | 1123 | 0.149386756 | 608 | 771 | 7517.4 | 767 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 12 | 1106 | 0.146963073 | 609 | 772 | 7525.7 | 766 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 13 | 1074 | 0.138748934 | 627 | 794 | 7740.6 | 766 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 14 | 965 | 0.133119974 | 558 | 743 | 7249.1 | 767 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 15 | 1030 | 0.136862526 | 602 | 772 | 7525.8 | 766 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 16 | 1140 | 0.152233425 | 606 | 768 | 7488.5 | 767 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 17 | 1271 | 0.170119927 | 620 | 766 | 7471.2 | 767 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 18 | 1373 | 0.184011258 | 552 | 765 | 7461.5 | 767 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 19 | 1211 | 0.1606463 | 588 | 773 | 7538.3 | 768 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 20 | 1152 | 0.152356769 | 589 | 775 | 7561.2 | 768 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 21 | 1066 | 0.142275609 | 779 | 768 | 7492.5 | 769 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 22 | 1122 | 0.148461793 | 680 | 775 | 7557.5 | 770 |
| FL | Crystal River | 4 | 2013 | 11/26/2013 | 23 | 1158 | 0.154728023 | 651 | 767 | 7484.1 | 769 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 0 | 878 | 0.139422619 | 541 | 646 | 6297.4 | 635 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 1 | 547 | 0.105382807 | 456 | 532 | 5190.6 | 501 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 2 | 220 | 0.060768445 | 311 | 371 | 3620.3 | 327 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 3 | 156 | 0.0514444 | 188 | 311 | 3032.4 | 253 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 4 | 160 | 0.053024027 | 208 | 309 | 3017.5 | 253 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 5 | 145 | 0.047091683 | 218 | 315 | 3079.1 | 263 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 6 | 430 | 0.101806473 | 274 | 433 | 4223.7 | 377 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 7 | 958 | 0.166048463 | 380 | 591 | 5769.4 | 554 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 8 | 1127 | 0.153239513 | 536 | 754 | 7354.5 | 731 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 9 | 876 | 0.11712326 | 590 | 767 | 7479.3 | 752 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 10 | 964 | 0.127114733 | 674 | 778 | 7583.7 | 759 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 11 | 1105 | 0.144361413 | 719 | 785 | 7654.4 | 769 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 12 | 1087 | 0.141695127 | 514 | 787 | 7671.4 | 769 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 13 | 1013 | 0.131529403 | 639 | 790 | 7701.7 | 768 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 14 | 1089 | 0.141111529 | 679 | 791 | 7717.3 | 768 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 15 | 1128 | 0.146100742 | 687 | 792 | 7720.7 | 769 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 16 | 1089 | 0.140894271 | 610 | 793 | 7729.2 | 768 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 17 | 1076 | 0.137938107 | 585 | 800 | 7800.6 | 770 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 18 | 1041 | 0.13325994 | 593 | 801 | 7811.8 | 770 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 19 | 928 | 0.123519233 | 488 | 770 | 7513 | 737 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 20 | 704 | 0.111756675 | 233 | 646 | 6299.4 | 595 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 21 | 621 | 0.110742564 | 286 | 575 | 5607.6 | 501 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 22 | 559 | 0.107925475 | 424 | 531 | 5179.5 | 444 |
| FL | Crystal River | 4 | 2013 | 11/27/2013 | 23 | 312 | 0.070901034 | 264 | 451 | 4400.5 | 359 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 0 | 388 | 0.086539534 | 399 | 460 | 4483.5 | 383 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 1 | 332 | 0.080360168 | 326 | 423 | 4131.4 | 361 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 2 | 352 | 0.086194231 | 322 | 419 | 4083.8 | 353 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 3 | 528 | 0.118234543 | 330 | 458 | 4465.7 | 393 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 4 | 496 | 0.102804319 | 332 | 495 | 4824.7 | 434 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 5 | 869 | 0.1422701 | 433 | 626 | 6108.1 | 581 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 6 | 789 | 0.126042366 | 438 | 642 | 6259.8 | 623 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 7 | 871 | 0.132290401 | 539 | 675 | 6584 | 643 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 8 | 1011 | 0.151968374 | 658 | 682 | 6652.7 | 655 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 9 | 837 | 0.125982119 | 624 | 681 | 6643.8 | 656 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 10 | 825 | 0.124421253 | 649 | 680 | 6630.7 | 656 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 11 | 978 | 0.147215992 | 657 | 681 | 6643.3 | 654 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 12 | 978 | 0.144360636 | 677 | 695 | 6774.7 | 651 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 13 | 857 | 0.12955992 | 628 | 678 | 6614.7 | 637 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 14 | 721 | 0.121659017 | 628 | 608 | 5926.4 | 558 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 15 | 638 | 0.125324114 | 560 | 522 | 5090.8 | 472 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 16 | 502 | 0.12419287 | 380 | 414 | 4042.1 | 357 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 17 | 419 | 0.099957059 | 360 | 430 | 4191.8 | 372 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 18 | 304 | 0.073705904 | 367 | 423 | 4124.5 | 366 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 19 | 305 | 0.075295628 | 360 | 415 | 4050.7 | 356 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 20 | 249 | 0.064650136 | 327 | 395 | 3851.5 | 329 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 21 | 157 | 0.050566864 | 267 | 318 | 3104.8 | 252 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 22 | 264 | 0.072062236 | 311 | 375 | 3663.5 | 312 |
| FL | Crystal River | 4 | 2013 | 11/28/2013 | 23 | 282 | 0.072087732 | 297 | 401 | 3911.9 | 332 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 0 | 147 | 0.046529294 | 300 | 324 | 3159.3 | 258 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 1 | 162 | 0.052483235 | 277 | 316 | 3086.7 | 254 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 2 | 157 | 0.051205114 | 257 | 314 | 3066.1 | 253 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 3 | 209 | 0.061621016 | 271 | 348 | 3391.7 | 283 |

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|----|---------------|---|------|------------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 4 | 160 | 0.051611238 | 263 | 318 | 3100.1 | 253 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 5 | 285 | 0.079087579 | 302 | 369 | 3603.6 | 304 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 6 | 669 | 0.124019799 | 393 | 553 | 5394.3 | 494 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 7 | 717 | 0.109733701 | 477 | 670 | 6534 | 624 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 8 | 796 | 0.112201173 | 574 | 727 | 7094.4 | 726 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 9 | 861 | 0.113289474 | 646 | 779 | 7600 | 766 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 10 | 654 | 0.096015503 | 565 | 698 | 6811.4 | 680 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 11 | 461 | 0.082720258 | 462 | 571 | 5573 | 539 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 12 | 588 | 0.105947855 | 460 | 569 | 5549.9 | 538 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 13 | 645 | 0.11754629 | 444 | 563 | 5487.2 | 529 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 14 | 500 | 0.096298294 | 420 | 532 | 5192.2 | 496 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 15 | 357 | 0.073871749 | 401 | 495 | 4832.7 | 455 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 16 | 215 | 0.056607251 | 334 | 389 | 3798.1 | 346 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 17 | 437 | 0.09653192 | 366 | 464 | 4527 | 429 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 18 | 636 | 0.106290527 | 466 | 613 | 5983.6 | 587 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 19 | 600 | 0.098284928 | 464 | 626 | 6104.7 | 599 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 20 | 637 | 0.105561448 | 464 | 619 | 6034.4 | 589 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 21 | 634 | 0.116619148 | 440 | 557 | 5436.5 | 525 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 22 | 631 | 0.123266263 | 424 | 525 | 5119 | 481 |
| FL | Crystal River | 4 | 2013 | 11/29/2013 | 23 | 254 | 0.069251322 | 322 | 376 | 3667.8 | 330 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 0 | 147 | 0.053998457 | 261 | 279 | 2722.3 | 227 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 1 | 164 | 0.060440775 | 263 | 278 | 2713.4 | 226 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 2 | 150 | 0.054680665 | 263 | 281 | 2743.2 | 226 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 3 | 154 | 0.055762755 | 259 | 283 | 2761.7 | 226 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 4 | 160 | 0.057755478 | 260 | 284 | 2770.3 | 225 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 5 | 235 | 0.082487978 | 279 | 292 | 2848.9 | 229 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 6 | 525 | 0.143827735 | 313 | 374 | 3650.2 | 321 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 7 | 429 | 0.10883905 | 315 | 404 | 3941.6 | 353 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 8 | 501 | 0.123905624 | 323 | 414 | 4043.4 | 379 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 9 | 707 | 0.148948721 | 341 | 487 | 4746.6 | 445 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 10 | 353 | 0.087415185 | 302 | 414 | 4038.2 | 378 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 11 | 232 | 0.074090633 | 272 | 321 | 3131.3 | 279 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 12 | 430 | 0.110676413 | 326 | 398 | 3885.2 | 357 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 13 | 428 | 0.099315466 | 323 | 442 | 4309.5 | 402 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 14 | 325 | 0.081744555 | 318 | 407 | 3975.8 | 366 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 15 | 360 | 0.091881269 | 321 | 402 | 3918.1 | 357 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 16 | 679 | 0.140005773 | 368 | 497 | 4849.8 | 463 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 17 | 977 | 0.166009651 | 423 | 603 | 5885.2 | 584 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 18 | 804 | 0.136250402 | 466 | 605 | 5900.9 | 591 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 19 | 805 | 0.133965718 | 480 | 616 | 6009 | 598 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 20 | 836 | 0.143758705 | 471 | 596 | 5815.3 | 579 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 21 | 543 | 0.111924147 | 417 | 497 | 4851.5 | 478 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 22 | 353 | 0.087717119 | 382 | 412 | 4024.3 | 379 |
| FL | Crystal River | 4 | 2013 | 11/30/2013 | 23 | 197 | 0.060416475 | 296 | 334 | 3260.7 | 302 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 0 | 137 | 0.046290039 | 171 | 303 | 2959.6 | 240 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 1 | 90 | 0.032555616 | 157 | 283 | 2764.5 | 227 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 2 | 77 | 0.027853138 | 160 | 283 | 2764.5 | 227 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 3 | 76 | 0.027491409 | 163 | 283 | 2764.5 | 227 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 4 | 77 | 0.027853138 | 165 | 283 | 2764.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 5 | 74 | 0.026767951 | 165 | 283 | 2764.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 6 | 76 | 0.027491409 | 165 | 283 | 2764.5 | 227 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 7 | 98 | 0.032123775 | 189 | 313 | 3050.7 | 248 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 8 | 367 | 0.079395985 | 286 | 474 | 4622.4 | 418 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 9 | 1086 | 0.151099857 | 495 | 737 | 7187.3 | 690 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 10 | 929 | 0.123018658 | 543 | 774 | 7551.7 | 767 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 11 | 642 | 0.085137985 | 558 | 773 | 7540.7 | 769 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 12 | 696 | 0.092598752 | 563 | 771 | 7516.3 | 767 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 13 | 1100 | 0.146652979 | 555 | 769 | 7500.7 | 764 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 14 | 1111 | 0.146082337 | 540 | 780 | 7605.3 | 765 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 15 | 717 | 0.094231755 | 547 | 780 | 7608.9 | 766 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 16 | 729 | 0.095713254 | 556 | 781 | 7616.5 | 766 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 17 | 844 | 0.110361421 | 558 | 784 | 7647.6 | 766 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 18 | 865 | 0.113597563 | 548 | 781 | 7614.6 | 765 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 19 | 882 | 0.115623607 | 549 | 782 | 7628.2 | 767 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 20 | 839 | 0.114961428 | 510 | 748 | 7298.1 | 744 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 21 | 374 | 0.068102773 | 296 | 563 | 5491.7 | 546 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 22 | 155 | 0.038674585 | 204 | 411 | 4007.8 | 377 |
| FL | Crystal River | 5 | 2013 | 9/1/2013 | 23 | 85 | 0.031219011 | 157 | 279 | 2722.7 | 236 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 0 | 93 | 0.034720926 | 160 | 274 | 2678.5 | 227 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 1 | 74 | 0.027762146 | 162 | 273 | 2665.5 | 227 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 2 | 70 | 0.026312822 | 162 | 273 | 2660.3 | 227 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 3 | 71 | 0.026751064 | 164 | 272 | 2654.1 | 227 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 4 | 71 | 0.02681674 | 166 | 271 | 2647.6 | 227 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 5 | 69 | 0.025844633 | 178 | 273 | 2669.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 6 | 71 | 0.026889865 | 169 | 270 | 2640.4 | 227 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 7 | 85 | 0.029651852 | 183 | 294 | 2866.6 | 250 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 8 | 289 | 0.066430673 | 287 | 446 | 4350.4 | 415 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 9 | 805 | 0.122831378 | 471 | 672 | 6553.7 | 650 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 10 | 820 | 0.108359542 | 590 | 776 | 7567.4 | 764 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 11 | 688 | 0.090688601 | 606 | 778 | 7586.4 | 764 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 12 | 973 | 0.128267662 | 606 | 778 | 7585.7 | 767 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 13 | 960 | 0.126500547 | 599 | 778 | 7588.9 | 767 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 14 | 900 | 0.118282538 | 631 | 780 | 7608.9 | 767 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 15 | 920 | 0.121258452 | 576 | 778 | 7587.1 | 765 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 16 | 823 | 0.108315127 | 592 | 779 | 7598.2 | 765 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 17 | 913 | 0.119223286 | 597 | 785 | 7657.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 18 | 863 | 0.113589997 | 592 | 779 | 7597.5 | 766 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 19 | 879 | 0.11538613 | 594 | 781 | 7617.9 | 764 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 20 | 861 | 0.112959513 | 594 | 782 | 7622.2 | 766 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 21 | 684 | 0.097204656 | 499 | 722 | 7036.7 | 709 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 22 | 376 | 0.07375586 | 295 | 523 | 5097.9 | 495 |
| FL | Crystal River | 5 | 2013 | 9/2/2013 | 23 | 128 | 0.039551339 | 184 | 332 | 3236.3 | 296 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 0 | 104 | 0.037981156 | 161 | 280 | 2738.2 | 233 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 1 | 86 | 0.032163961 | 165 | 274 | 2673.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 2 | 75 | 0.028234763 | 164 | 272 | 2656.3 | 226 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 3 | 72 | 0.027066652 | 167 | 272 | 2660.1 | 227 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 4 | 67 | 0.025216409 | 175 | 272 | 2657 | 226 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 5 | 80 | 0.027367269 | 178 | 299 | 2923.2 | 252 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 6 | 84 | 0.028388928 | 165 | 303 | 2958.9 | 255 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 7 | 171 | 0.046268737 | 229 | 379 | 3695.8 | 333 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 8 | 411 | 0.079858547 | 324 | 528 | 5146.6 | 494 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 9 | 1127 | 0.152038421 | 563 | 760 | 7412.6 | 731 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 10 | 742 | 0.096653597 | 606 | 787 | 7676.9 | 769 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 11 | 867 | 0.112989196 | 621 | 787 | 7673.3 | 767 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 12 | 922 | 0.119794712 | 592 | 789 | 7696.5 | 767 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 13 | 918 | 0.119161972 | 639 | 790 | 7703.8 | 768 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 14 | 868 | 0.113590264 | 603 | 784 | 7641.5 | 767 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 15 | 839 | 0.108729459 | 601 | 791 | 7716.4 | 767 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 16 | 904 | 0.118273521 | 603 | 784 | 7643.3 | 767 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 17 | 870 | 0.112841931 | 609 | 791 | 7709.9 | 766 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 18 | 885 | 0.115148913 | 607 | 788 | 7685.7 | 766 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 19 | 923 | 0.120353105 | 605 | 786 | 7669.1 | 766 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 20 | 759 | 0.104546895 | 544 | 744 | 7259.9 | 727 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 21 | 741 | 0.114031578 | 480 | 666 | 6498.2 | 640 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 22 | 917 | 0.15139758 | 369 | 621 | 6056.9 | 594 |
| FL | Crystal River | 5 | 2013 | 9/3/2013 | 23 | 197 | 0.051786231 | 216 | 390 | 3804.1 | 358 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 0 | 113 | 0.04145724 | 182 | 279 | 2725.7 | 229 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 1 | 104 | 0.038521372 | 183 | 277 | 2699.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 2 | 86 | 0.031957192 | 185 | 276 | 2691.1 | 227 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 3 | 90 | 0.033549541 | 187 | 275 | 2682.6 | 227 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 4 | 92 | 0.034295087 | 193 | 275 | 2682.6 | 226 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 5 | 161 | 0.050643264 | 384 | 326 | 3179.1 | 278 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 6 | 120 | 0.040064103 | 92 | 307 | 2995.2 | 260 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 7 | 177 | 0.05374222 | 144 | 337 | 3293.5 | 295 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 8 | 477 | 0.100971614 | 429 | 484 | 4724.1 | 457 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 9 | 1390 | 0.196308275 | 729 | 726 | 7080.7 | 706 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 10 | 773 | 0.102654679 | 602 | 772 | 7530.1 | 765 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 11 | 897 | 0.118040294 | 607 | 779 | 7599.1 | 764 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 12 | 931 | 0.121817183 | 611 | 784 | 7642.6 | 766 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 13 | 901 | 0.117760845 | 596 | 785 | 7651.1 | 765 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 14 | 854 | 0.112200121 | 593 | 780 | 7611.4 | 764 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 15 | 870 | 0.113895216 | 580 | 783 | 7638.6 | 763 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 16 | 968 | 0.127075812 | 594 | 781 | 7617.5 | 765 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 17 | 1077 | 0.141158892 | 595 | 782 | 7629.7 | 765 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 18 | 1047 | 0.137097513 | 595 | 783 | 7636.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 19 | 848 | 0.114821134 | 524 | 757 | 7385.4 | 739 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 20 | 532 | 0.084561219 | 377 | 645 | 6291.3 | 621 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 21 | 382 | 0.0726664 | 299 | 539 | 5256.9 | 517 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 22 | 187 | 0.049263679 | 182 | 389 | 3795.9 | 358 |
| FL | Crystal River | 5 | 2013 | 9/4/2013 | 23 | 98 | 0.037289296 | 162 | 269 | 2628.1 | 225 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 0 | 90 | 0.033898305 | 175 | 272 | 2655 | 227 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 1 | 74 | 0.027919261 | 169 | 271 | 2650.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 2 | 79 | 0.029625741 | 178 | 273 | 2666.6 | 226 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 3 | 75 | 0.028350028 | 174 | 271 | 2645.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 4 | 69 | 0.026094849 | 177 | 271 | 2644.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 5 | 75 | 0.028219889 | 178 | 272 | 2657.7 | 226 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 6 | 83 | 0.031440585 | 182 | 270 | 2639.9 | 226 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 7 | 101 | 0.034203664 | 186 | 303 | 2952.9 | 260 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 8 | 354 | 0.075531279 | 281 | 480 | 4686.8 | 451 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 9 | 1008 | 0.153471376 | 394 | 673 | 6568 | 649 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 10 | 732 | 0.101407514 | 526 | 740 | 7218.4 | 723 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 11 | 943 | 0.123513386 | 580 | 783 | 7634.8 | 764 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 12 | 947 | 0.124050301 | 587 | 783 | 7634 | 765 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 13 | 816 | 0.107692917 | 591 | 777 | 7577.1 | 766 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 14 | 910 | 0.119991034 | 591 | 778 | 7583.9 | 766 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 15 | 884 | 0.116551961 | 576 | 778 | 7584.6 | 765 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 16 | 1014 | 0.133464956 | 577 | 779 | 7597.5 | 763 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 17 | 1439 | 0.190115073 | 582 | 776 | 7569.1 | 763 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 18 | 1216 | 0.15988009 | 570 | 780 | 7605.7 | 764 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 19 | 1044 | 0.137265472 | 555 | 780 | 7605.7 | 764 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 20 | 858 | 0.117394338 | 497 | 749 | 7308.7 | 737 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 21 | 691 | 0.103986396 | 412 | 681 | 6645.1 | 664 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 22 | 1026 | 0.160724356 | 376 | 655 | 6383.6 | 639 |
| FL | Crystal River | 5 | 2013 | 9/5/2013 | 23 | 439 | 0.093982146 | 247 | 479 | 4671.1 | 456 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 0 | 153 | 0.054109492 | 99 | 290 | 2827.6 | 252 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 1 | 164 | 0.062107097 | 87 | 270 | 2640.6 | 226 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 2 | 146 | 0.054930584 | 82 | 272 | 2657.9 | 227 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 3 | 152 | 0.057188006 | 260 | 272 | 2657.9 | 226 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 4 | 140 | 0.052412864 | 181 | 274 | 2671.1 | 226 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 5 | 300 | 0.08548957 | 235 | 360 | 3509.2 | 317 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 6 | 304 | 0.077832966 | 226 | 400 | 3905.8 | 361 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 7 | 604 | 0.114658871 | 321 | 540 | 5267.8 | 504 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 8 | 1240 | 0.169438258 | 512 | 750 | 7318.3 | 727 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 9 | 814 | 0.106908327 | 601 | 781 | 7614 | 765 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 10 | 975 | 0.127676291 | 588 | 783 | 7636.5 | 766 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 11 | 1176 | 0.155224984 | 583 | 777 | 7576.1 | 764 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 12 | 1175 | 0.154619504 | 569 | 779 | 7599.3 | 765 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 13 | 1076 | 0.141413345 | 563 | 780 | 7608.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 14 | 766 | 0.101525534 | 558 | 774 | 7544.9 | 763 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 15 | 815 | 0.108318603 | 579 | 772 | 7524.1 | 765 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 16 | 742 | 0.098322423 | 566 | 774 | 7546.6 | 766 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 17 | 735 | 0.096860916 | 561 | 778 | 7588.2 | 766 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 18 | 705 | 0.102104364 | 462 | 708 | 6904.7 | 700 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 19 | 739 | 0.113183851 | 404 | 669 | 6529.2 | 658 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 20 | 600 | 0.106909946 | 342 | 575 | 5612.2 | 560 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 21 | 439 | 0.087919571 | 289 | 512 | 4993.2 | 498 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 22 | 115 | 0.029151563 | 220 | 404 | 3944.9 | 374 |
| FL | Crystal River | 5 | 2013 | 9/6/2013 | 23 | 80 | 0.02471806 | 181 | 332 | 3236.5 | 297 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 0 | 63 | 0.022204991 | 170 | 291 | 2837.2 | 250 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 1 | 53 | 0.020390105 | 161 | 266 | 2599.3 | 226 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 2 | 55 | 0.020894275 | 160 | 270 | 2632.3 | 226 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 3 | 71 | 0.027009548 | 163 | 269 | 2628.7 | 226 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 4 | 82 | 0.031266682 | 165 | 269 | 2622.6 | 226 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 5 | 82 | 0.030996031 | 169 | 271 | 2645.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 6 | 95 | 0.036161547 | 168 | 269 | 2627.1 | 226 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 7 | 163 | 0.053738626 | 209 | 311 | 3033.2 | 270 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 8 | 368 | 0.073545576 | 320 | 513 | 5003.7 | 484 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 9 | 687 | 0.096065106 | 507 | 733 | 7151.4 | 709 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 10 | 738 | 0.096599387 | 565 | 783 | 7639.8 | 763 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 11 | 798 | 0.104877183 | 570 | 780 | 7608.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 12 | 816 | 0.107505632 | 561 | 778 | 7590.3 | 765 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 13 | 737 | 0.096519029 | 565 | 783 | 7635.8 | 765 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 14 | 895 | 0.117471026 | 556 | 781 | 7618.9 | 766 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 15 | 729 | 0.09599684 | 539 | 779 | 7594 | 764 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 16 | 817 | 0.106949772 | 550 | 783 | 7639.1 | 765 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 17 | 898 | 0.11825748 | 539 | 779 | 7593.6 | 764 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 18 | 881 | 0.115169421 | 535 | 784 | 7649.6 | 764 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 19 | 871 | 0.113658607 | 528 | 786 | 7663.3 | 763 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 20 | 899 | 0.117395108 | 513 | 785 | 7657.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 21 | 824 | 0.112784013 | 467 | 749 | 7306 | 735 |

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|----|---------------|---|------|----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 22 | 543 | 0.093292557 | 325 | 597 | 5820.4 | 578 |
| FL | Crystal River | 5 | 2013 | 9/7/2013 | 23 | 392 | 0.094099573 | 233 | 427 | 4165.8 | 406 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 0 | 247 | 0.087303831 | 169 | 290 | 2829.2 | 251 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 1 | 230 | 0.085223062 | 164 | 276 | 2698.8 | 227 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 2 | 117 | 0.044074437 | 159 | 272 | 2654.6 | 227 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 3 | 93 | 0.035357184 | 160 | 269 | 2630.3 | 226 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 4 | 109 | 0.041256624 | 166 | 271 | 2642 | 226 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 5 | 98 | 0.037304911 | 160 | 269 | 2627 | 226 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 6 | 101 | 0.03872254 | 156 | 267 | 2608.3 | 226 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 7 | 166 | 0.052787229 | 204 | 322 | 3144.7 | 282 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 8 | 454 | 0.085077676 | 330 | 547 | 5336.3 | 521 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 9 | 989 | 0.13472646 | 528 | 753 | 7340.8 | 734 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 10 | 837 | 0.11026651 | 561 | 778 | 7590.7 | 765 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 11 | 696 | 0.091291858 | 579 | 782 | 7623.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 12 | 771 | 0.101318055 | 563 | 780 | 7609.7 | 766 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 13 | 908 | 0.11918826 | 594 | 781 | 7618.2 | 765 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 14 | 896 | 0.117701149 | 563 | 781 | 7612.5 | 766 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 15 | 913 | 0.119787977 | 571 | 782 | 7621.8 | 766 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 16 | 969 | 0.127028657 | 556 | 782 | 7628.2 | 763 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 17 | 1008 | 0.132035681 | 557 | 783 | 7634.3 | 765 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 18 | 919 | 0.120568865 | 564 | 782 | 7622.2 | 765 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 19 | 906 | 0.118634524 | 549 | 783 | 7636.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 20 | 937 | 0.122919099 | 564 | 782 | 7622.9 | 766 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 21 | 943 | 0.123881715 | 563 | 781 | 7612.1 | 765 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 22 | 705 | 0.10176097 | 457 | 710 | 6928 | 697 |
| FL | Crystal River | 5 | 2013 | 9/8/2013 | 23 | 315 | 0.061350888 | 272 | 526 | 5134.4 | 510 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 0 | 209 | 0.055493601 | 210 | 386 | 3766.2 | 352 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 1 | 286 | 0.07635422 | 202 | 384 | 3745.7 | 351 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 2 | 242 | 0.064804649 | 186 | 383 | 3734.3 | 348 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 3 | 129 | 0.043253755 | 116 | 306 | 2982.4 | 267 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 4 | 113 | 0.041440516 | 81 | 279 | 2726.8 | 236 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 5 | 156 | 0.050395736 | 83 | 317 | 3095.5 | 275 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 6 | 195 | 0.0661129 | 73 | 302 | 2949.5 | 256 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 7 | 174 | 0.049056923 | 102 | 363 | 3546.9 | 321 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 8 | 313 | 0.066137007 | 288 | 485 | 4732.6 | 462 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 9 | 825 | 0.118614582 | 396 | 713 | 6955.3 | 696 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 10 | 817 | 0.106886807 | 558 | 784 | 7643.6 | 764 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 11 | 707 | 0.091663425 | 578 | 791 | 7713 | 766 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 12 | 778 | 0.107989562 | 540 | 739 | 7204.4 | 765 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 13 | 916 | 0.124366964 | 537 | 755 | 7365.3 | 765 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 14 | 890 | 0.121846036 | 540 | 749 | 7304.3 | 764 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 15 | 840 | 0.114859229 | 541 | 750 | 7313.3 | 764 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 16 | 873 | 0.116226435 | 555 | 770 | 7511.2 | 764 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 17 | 940 | 0.122587376 | 567 | 786 | 7668 | 764 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 18 | 935 | 0.122136009 | 566 | 785 | 7655.4 | 765 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 19 | 851 | 0.111860352 | 555 | 780 | 7607.7 | 764 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 20 | 869 | 0.113950774 | 556 | 782 | 7626.1 | 765 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 21 | 786 | 0.10952872 | 480 | 736 | 7176.2 | 726 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 22 | 643 | 0.105085965 | 361 | 627 | 6118.8 | 610 |
| FL | Crystal River | 5 | 2013 | 9/9/2013 | 23 | 537 | 0.108636281 | 276 | 507 | 4943.1 | 490 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 0 | 363 | 0.098845442 | 150 | 376 | 3672.4 | 348 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 1 | 128 | 0.047218533 | 70 | 278 | 2710.8 | 241 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 2 | 103 | 0.039442445 | 70 | 267 | 2611.4 | 227 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 3 | 103 | 0.039469651 | 67 | 267 | 2609.6 | 227 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 4 | 117 | 0.042303938 | 160 | 283 | 2765.7 | 244 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 5 | 167 | 0.052826369 | 221 | 324 | 3161.3 | 288 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 6 | 253 | 0.067057171 | 215 | 387 | 3772.9 | 352 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 7 | 312 | 0.072304234 | 254 | 442 | 4315.1 | 410 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 8 | 666 | 0.108821751 | 391 | 627 | 6120.1 | 607 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 9 | 1041 | 0.138770396 | 540 | 769 | 7501.6 | 753 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 10 | 965 | 0.127327185 | 568 | 777 | 7578.9 | 767 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 11 | 910 | 0.120025852 | 568 | 777 | 7581.7 | 767 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 12 | 948 | 0.125274203 | 575 | 776 | 7567.4 | 767 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 13 | 988 | 0.130591097 | 567 | 776 | 7565.6 | 766 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 14 | 1039 | 0.137033276 | 568 | 777 | 7582.1 | 764 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 15 | 985 | 0.129100751 | 572 | 782 | 7629.7 | 764 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 16 | 962 | 0.125842109 | 573 | 784 | 7644.5 | 765 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 17 | 972 | 0.128238957 | 568 | 777 | 7579.6 | 766 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 18 | 914 | 0.119461508 | 573 | 785 | 7651 | 767 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 19 | 855 | 0.112670488 | 561 | 778 | 7588.5 | 767 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 20 | 846 | 0.110417917 | 559 | 786 | 7661.8 | 768 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 21 | 635 | 0.090987247 | 467 | 716 | 6979 | 703 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 22 | 300 | 0.059665871 | 261 | 515 | 5028 | 491 |
| FL | Crystal River | 5 | 2013 | 9/10/2013 | 23 | 124 | 0.04087418 | 154 | 311 | 3033.7 | 276 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 0 | 107 | 0.040304354 | 151 | 272 | 2654.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 1 | 112 | 0.042163912 | 151 | 272 | 2656.3 | 226 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 2 | 108 | 0.040844112 | 150 | 271 | 2644.2 | 227 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 3 | 79 | 0.029791085 | 153 | 272 | 2651.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 4 | 100 | 0.034054146 | 179 | 301 | 2936.5 | 257 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 5 | 225 | 0.060682885 | 226 | 380 | 3707.8 | 340 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 6 | 422 | 0.095199422 | 257 | 454 | 4432.8 | 424 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 7 | 836 | 0.15668341 | 314 | 547 | 5335.6 | 516 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 8 | 1530 | 0.219729718 | 445 | 714 | 6963.1 | 696 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 9 | 1174 | 0.154575379 | 562 | 779 | 7595 | 762 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 10 | 608 | 0.079681275 | 557 | 782 | 7630.4 | 768 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 11 | 534 | 0.069933733 | 565 | 783 | 7635.8 | 766 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 12 | 775 | 0.10183567 | 570 | 780 | 7610.3 | 765 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 13 | 870 | 0.114442062 | 555 | 780 | 7602.1 | 765 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 14 | 805 | 0.106679035 | 558 | 774 | 7546 | 766 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 15 | 794 | 0.105578087 | 549 | 771 | 7520.5 | 765 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 16 | 1039 | 0.137154474 | 568 | 777 | 7575.4 | 766 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 17 | 954 | 0.126015455 | 552 | 776 | 7570.5 | 766 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 18 | 867 | 0.115018772 | 550 | 773 | 7537.9 | 769 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 19 | 910 | 0.119405335 | 548 | 781 | 7621.1 | 768 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 20 | 989 | 0.129655606 | 549 | 782 | 7627.9 | 768 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 21 | 684 | 0.101280817 | 425 | 692 | 6753.5 | 685 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 22 | 316 | 0.061230817 | 268 | 529 | 5160.8 | 507 |
| FL | Crystal River | 5 | 2013 | 9/11/2013 | 23 | 169 | 0.045245235 | 186 | 383 | 3735.2 | 355 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 0 | 102 | 0.037479331 | 144 | 279 | 2721.5 | 235 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 1 | 124 | 0.047108882 | 144 | 270 | 2632.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 2 | 127 | 0.048222965 | 144 | 270 | 2633.6 | 227 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 3 | 99 | 0.037341581 | 143 | 272 | 2651.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 4 | 118 | 0.041983918 | 154 | 288 | 2810.6 | 245 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 5 | 233 | 0.061270643 | 224 | 390 | 3802.8 | 351 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 6 | 261 | 0.060411073 | 241 | 443 | 4320.4 | 408 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 7 | 283 | 0.054621605 | 290 | 531 | 5181.1 | 503 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 8 | 621 | 0.087426617 | 475 | 728 | 7103.1 | 713 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 9 | 917 | 0.120902882 | 553 | 778 | 7584.6 | 769 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 10 | 774 | 0.10203409 | 568 | 778 | 7585.7 | 770 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 11 | 759 | 0.100464599 | 544 | 775 | 7554.9 | 769 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 12 | 800 | 0.106165565 | 550 | 773 | 7535.4 | 767 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 13 | 847 | 0.112350608 | 550 | 773 | 7538.9 | 768 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 14 | 915 | 0.120983737 | 552 | 776 | 7563 | 767 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 15 | 919 | 0.121488532 | 544 | 776 | 7564.5 | 766 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 16 | 849 | 0.112089566 | 552 | 777 | 7574.3 | 768 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 17 | 767 | 0.101433559 | 552 | 775 | 7561.6 | 768 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 18 | 747 | 0.099104478 | 550 | 773 | 7537.5 | 767 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 19 | 730 | 0.094829826 | 554 | 789 | 7698 | 768 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 20 | 680 | 0.09047486 | 526 | 771 | 7515.9 | 755 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 21 | 440 | 0.069680893 | 385 | 647 | 6314.5 | 634 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 22 | 180 | 0.035736266 | 256 | 516 | 5036.9 | 495 |
| FL | Crystal River | 5 | 2013 | 9/12/2013 | 23 | 57 | 0.016669104 | 167 | 350 | 3419.5 | 318 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 0 | 40 | 0.014953271 | 133 | 274 | 2675 | 230 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 1 | 51 | 0.019511075 | 130 | 268 | 2613.9 | 226 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 2 | 54 | 0.020746091 | 135 | 267 | 2602.9 | 225 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 3 | 71 | 0.027237503 | 143 | 267 | 2606.7 | 225 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 4 | 77 | 0.02797152 | 159 | 282 | 2752.8 | 238 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 5 | 151 | 0.04563588 | 205 | 339 | 3308.8 | 296 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 6 | 128 | 0.043288579 | 159 | 303 | 2956.9 | 261 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 7 | 189 | 0.049532196 | 244 | 391 | 3815.7 | 358 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 8 | 395 | 0.063297225 | 418 | 640 | 6240.4 | 615 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 9 | 557 | 0.07415494 | 615 | 770 | 7511.3 | 759 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 10 | 602 | 0.079833437 | 580 | 773 | 7540.7 | 762 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 11 | 1478 | 0.195185082 | 605 | 776 | 7572.3 | 766 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 12 | 1229 | 0.163790231 | 607 | 769 | 7503.5 | 766 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 13 | 1074 | 0.142775481 | 564 | 771 | 7522.3 | 764 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 14 | 1214 | 0.160291535 | 560 | 777 | 7573.7 | 765 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 15 | 781 | 0.103226318 | 544 | 776 | 7565.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 16 | 508 | 0.06685882 | 539 | 779 | 7598.1 | 764 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 17 | 711 | 0.093659847 | 546 | 778 | 7591.3 | 764 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 18 | 992 | 0.131269022 | 559 | 775 | 7557 | 765 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 19 | 1035 | 0.136906573 | 559 | 775 | 7559.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 20 | 888 | 0.122484448 | 478 | 743 | 7249.9 | 729 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 21 | 485 | 0.085837669 | 305 | 579 | 5650.2 | 560 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 22 | 251 | 0.057506816 | 218 | 447 | 4364.7 | 419 |
| FL | Crystal River | 5 | 2013 | 9/13/2013 | 23 | 114 | 0.036803874 | 154 | 317 | 3097.5 | 280 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 0 | 115 | 0.039963859 | 152 | 295 | 2877.6 | 251 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 1 | 126 | 0.044062107 | 151 | 293 | 2859.6 | 251 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 2 | 110 | 0.040306328 | 152 | 280 | 2729.1 | 236 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 3 | 90 | 0.034404985 | 143 | 268 | 2615.9 | 225 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 4 | 84 | 0.031992687 | 144 | 269 | 2625.6 | 225 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 5 | 93 | 0.035500248 | 149 | 268 | 2619.7 | 226 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 6 | 98 | 0.038061209 | 151 | 264 | 2574.8 | 225 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 7 | 131 | 0.044131519 | 181 | 304 | 2968.4 | 266 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 8 | 231 | 0.05708355 | 242 | 415 | 4046.7 | 388 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 9 | 807 | 0.116812622 | 490 | 708 | 6908.5 | 690 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 10 | 807 | 0.107064677 | 557 | 773 | 7537.5 | 763 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 11 | 740 | 0.097839596 | 582 | 776 | 7563.4 | 766 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 12 | 774 | 0.102913215 | 564 | 771 | 7520.9 | 766 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 13 | 939 | 0.125034954 | 555 | 770 | 7509.9 | 763 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 14 | 980 | 0.128644377 | 556 | 781 | 7617.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 15 | 899 | 0.118253686 | 555 | 780 | 7602.3 | 763 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 16 | 819 | 0.107589034 | 540 | 781 | 7612.3 | 764 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 17 | 850 | 0.112115017 | 545 | 777 | 7581.5 | 765 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 18 | 892 | 0.117682758 | 538 | 777 | 7579.7 | 765 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 19 | 976 | 0.128608889 | 546 | 778 | 7588.9 | 764 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 20 | 933 | 0.122463445 | 548 | 781 | 7618.6 | 765 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 21 | 691 | 0.099200368 | 452 | 714 | 6965.7 | 701 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 22 | 520 | 0.09146556 | 307 | 583 | 5685.2 | 562 |
| FL | Crystal River | 5 | 2013 | 9/14/2013 | 23 | 249 | 0.061752889 | 201 | 413 | 4032.2 | 387 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 0 | 210 | 0.062003602 | 172 | 347 | 3386.9 | 312 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 1 | 147 | 0.055679709 | 142 | 270 | 2640.1 | 227 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 2 | 128 | 0.048530806 | 145 | 270 | 2637.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 3 | 113 | 0.042939656 | 147 | 270 | 2631.6 | 226 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 4 | 116 | 0.044016089 | 150 | 270 | 2635.4 | 225 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 5 | 142 | 0.053885853 | 152 | 270 | 2635.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 6 | 133 | 0.050647372 | 144 | 269 | 2626 | 225 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 7 | 210 | 0.0671871 | 187 | 320 | 3125.6 | 279 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 8 | 595 | 0.116470266 | 327 | 524 | 5108.6 | 499 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 9 | 1175 | 0.154373703 | 540 | 780 | 7611.4 | 758 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 10 | 804 | 0.104288271 | 562 | 791 | 7709.4 | 769 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 11 | 710 | 0.092201805 | 577 | 790 | 7700.5 | 771 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 12 | 819 | 0.1065255 | 553 | 788 | 7688.3 | 770 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 13 | 1091 | 0.141673592 | 585 | 790 | 7700.8 | 770 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 14 | 1094 | 0.142048406 | 539 | 790 | 7701.6 | 773 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 15 | 685 | 0.088658219 | 571 | 792 | 7726.3 | 772 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 16 | 407 | 0.052434939 | 558 | 796 | 7762 | 768 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 17 | 269 | 0.040847316 | 441 | 675 | 6585.5 | 659 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 18 | 589 | 0.087183055 | 432 | 693 | 6755.9 | 673 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 19 | 785 | 0.12040616 | 391 | 668 | 6519.6 | 648 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 20 | 473 | 0.088052422 | 236 | 551 | 5371.8 | 528 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 21 | 225 | 0.053038518 | 195 | 435 | 4242.2 | 399 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 22 | 129 | 0.046895449 | 167 | 282 | 2750.8 | 267 |
| FL | Crystal River | 5 | 2013 | 9/15/2013 | 23 | 114 | 0.043594646 | 162 | 268 | 2615 | 225 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 0 | 91 | 0.035237173 | 157 | 265 | 2582.5 | 225 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 1 | 75 | 0.029063009 | 162 | 264 | 2580.6 | 225 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 2 | 63 | 0.024004572 | 157 | 269 | 2624.5 | 225 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 3 | 61 | 0.023274448 | 157 | 268 | 2620.9 | 225 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 4 | 60 | 0.021879444 | 172 | 281 | 2742.3 | 234 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 5 | 72 | 0.024558292 | 173 | 300 | 2931.8 | 256 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 6 | 80 | 0.02799748 | 171 | 293 | 2857.4 | 252 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 7 | 131 | 0.039307468 | 203 | 341 | 3332.7 | 298 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 8 | 179 | 0.050633628 | 219 | 362 | 3535.2 | 335 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 9 | 586 | 0.096650228 | 394 | 622 | 6063.1 | 607 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 10 | 795 | 0.106685633 | 566 | 764 | 7451.8 | 758 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 11 | 528 | 0.070194097 | 579 | 771 | 7522 | 764 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 12 | 406 | 0.054160052 | 577 | 769 | 7496.3 | 765 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 13 | 304 | 0.040358983 | 557 | 772 | 7532.4 | 762 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 14 | 441 | 0.057677217 | 558 | 784 | 7646 | 763 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 15 | 1282 | 0.169281149 | 552 | 777 | 7573.2 | 762 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 16 | 905 | 0.120307349 | 541 | 771 | 7522.4 | 762 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 17 | 737 | 0.098114916 | 540 | 770 | 7511.6 | 762 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 18 | 812 | 0.107206042 | 560 | 777 | 7574.2 | 762 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 19 | 975 | 0.128538093 | 568 | 778 | 7585.3 | 765 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 20 | 911 | 0.123800723 | 522 | 755 | 7358.6 | 742 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 21 | 536 | 0.091328869 | 346 | 602 | 5868.9 | 592 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 22 | 381 | 0.079613842 | 248 | 491 | 4785.6 | 466 |
| FL | Crystal River | 5 | 2013 | 9/16/2013 | 23 | 190 | 0.062436331 | 161 | 312 | 3043.1 | 278 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 0 | 170 | 0.065279164 | 151 | 267 | 2604.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 1 | 157 | 0.059623272 | 155 | 270 | 2633.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 2 | 133 | 0.050676319 | 154 | 269 | 2624.5 | 225 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 3 | 124 | 0.048200264 | 159 | 263 | 2572.6 | 226 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 4 | 181 | 0.064129819 | 172 | 289 | 2822.4 | 248 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 5 | 197 | 0.06885223 | 165 | 293 | 2861.2 | 256 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 6 | 176 | 0.061841181 | 167 | 292 | 2846 | 252 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 7 | 210 | 0.067225815 | 196 | 320 | 3123.8 | 307 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 8 | 1142 | 0.206274949 | 370 | 568 | 5536.3 | 538 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 9 | 1364 | 0.188702738 | 527 | 741 | 7228.3 | 731 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 10 | 950 | 0.126876436 | 569 | 768 | 7487.6 | 763 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 11 | 943 | 0.126007189 | 546 | 767 | 7483.7 | 765 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 12 | 1149 | 0.154044162 | 544 | 765 | 7458.9 | 763 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 13 | 1379 | 0.182702244 | 551 | 774 | 7547.8 | 764 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 14 | 913 | 0.120278762 | 561 | 778 | 7590.7 | 764 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 15 | 398 | 0.053501815 | 565 | 763 | 7439 | 763 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 16 | 319 | 0.042993652 | 578 | 761 | 7419.7 | 763 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 17 | 440 | 0.058870752 | 568 | 766 | 7474 | 765 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 18 | 779 | 0.104429192 | 611 | 765 | 7459.6 | 766 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 19 | 604 | 0.080942362 | 746 | 765 | 7462.1 | 766 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 20 | 256 | 0.040091459 | 370 | 655 | 6385.4 | 656 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 21 | 149 | 0.030033057 | 153 | 509 | 4961.2 | 501 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 22 | 110 | 0.027561324 | 271 | 409 | 3991.1 | 390 |
| FL | Crystal River | 5 | 2013 | 9/17/2013 | 23 | 64 | 0.024248854 | 137 | 270 | 2639.3 | 239 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 0 | 67 | 0.026118821 | 143 | 263 | 2565.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 1 | 72 | 0.028171218 | 145 | 262 | 2555.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 2 | 58 | 0.022701476 | 145 | 262 | 2554.9 | 225 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 3 | 55 | 0.021512105 | 153 | 262 | 2556.7 | 225 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 4 | 83 | 0.028281314 | 182 | 301 | 2934.8 | 267 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 5 | 367 | 0.064681001 | 368 | 582 | 5674 | 562 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 6 | 529 | 0.071330331 | 556 | 760 | 7416.2 | 760 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 7 | 461 | 0.062647786 | 559 | 755 | 7358.6 | 764 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 8 | 525 | 0.07079479 | 556 | 760 | 7415.8 | 764 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 9 | 652 | 0.088149801 | 532 | 758 | 7396.5 | 763 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 10 | 812 | 0.109242567 | 557 | 762 | 7433 | 764 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 11 | 786 | 0.10469391 | 585 | 770 | 7507.6 | 768 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 12 | 615 | 0.082022966 | 577 | 769 | 7497.9 | 768 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 13 | 412 | 0.055052246 | 583 | 767 | 7483.8 | 766 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 14 | 422 | 0.056777666 | 572 | 762 | 7432.5 | 761 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 15 | 859 | 0.114531806 | 555 | 769 | 7500.1 | 763 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 16 | 1192 | 0.158854965 | 555 | 769 | 7503.7 | 767 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 17 | 1078 | 0.143524744 | 555 | 770 | 7510.9 | 765 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 18 | 974 | 0.129673022 | 555 | 770 | 7511.2 | 766 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 19 | 850 | 0.113386247 | 532 | 769 | 7496.5 | 766 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 20 | 585 | 0.09201296 | 400 | 652 | 6357.8 | 651 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 21 | 473 | 0.085959365 | 319 | 564 | 5502.6 | 556 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 22 | 293 | 0.067846061 | 246 | 443 | 4318.6 | 432 |
| FL | Crystal River | 5 | 2013 | 9/18/2013 | 23 | 116 | 0.043154762 | 131 | 275 | 2688 | 251 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 0 | 133 | 0.05267744 | 143 | 259 | 2524.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 1 | 125 | 0.049640602 | 143 | 258 | 2518.1 | 225 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 2 | 103 | 0.041053848 | 140 | 257 | 2508.9 | 225 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 3 | 95 | 0.037905993 | 142 | 257 | 2506.2 | 225 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 4 | 100 | 0.039834289 | 145 | 257 | 2510.4 | 225 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 5 | 210 | 0.065838977 | 210 | 327 | 3189.6 | 295 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 6 | 298 | 0.078540931 | 212 | 389 | 3794.2 | 365 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 7 | 240 | 0.060796433 | 217 | 405 | 3947.6 | 379 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 8 | 541 | 0.09976028 | 320 | 556 | 5423 | 544 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 9 | 889 | 0.129061293 | 461 | 706 | 6888.2 | 705 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 10 | 894 | 0.12003867 | 521 | 764 | 7447.6 | 764 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 11 | 811 | 0.108967296 | 528 | 763 | 7442.6 | 765 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 12 | 796 | 0.106915958 | 543 | 763 | 7445.1 | 764 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 13 | 770 | 0.103877182 | 541 | 760 | 7412.6 | 763 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 14 | 723 | 0.097194402 | 535 | 763 | 7438.7 | 761 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 15 | 711 | 0.094817699 | 547 | 769 | 7498.6 | 764 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 16 | 793 | 0.105829285 | 554 | 768 | 7493.2 | 761 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 17 | 941 | 0.12474481 | 558 | 774 | 7543.4 | 763 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 18 | 820 | 0.108980237 | 556 | 772 | 7524.3 | 764 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 19 | 772 | 0.103205797 | 553 | 767 | 7480.2 | 764 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 20 | 624 | 0.088954781 | 498 | 719 | 7014.8 | 720 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 21 | 386 | 0.069521991 | 327 | 569 | 5552.2 | 562 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 22 | 197 | 0.0494267 | 227 | 408 | 3985.7 | 385 |
| FL | Crystal River | 5 | 2013 | 9/19/2013 | 23 | 94 | 0.034190521 | 151 | 282 | 2749.3 | 244 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 0 | 110 | 0.042186002 | 146 | 267 | 2607.5 | 227 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 1 | 126 | 0.048455947 | 150 | 266 | 2600.3 | 227 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 2 | 108 | 0.041501748 | 150 | 267 | 2602.3 | 227 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 3 | 96 | 0.036870607 | 156 | 267 | 2603.7 | 227 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 4 | 96 | 0.036987093 | 155 | 266 | 2595.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 5 | 97 | 0.037626067 | 159 | 264 | 2578 | 227 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 6 | 129 | 0.045865036 | 168 | 288 | 2812.6 | 253 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 7 | 119 | 0.042375899 | 179 | 288 | 2808.2 | 254 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 8 | 142 | 0.045852304 | 192 | 317 | 3096.9 | 284 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 9 | 340 | 0.075600916 | 287 | 461 | 4497.3 | 434 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 10 | 527 | 0.096483038 | 344 | 560 | 5462.1 | 539 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 11 | 1123 | 0.153476104 | 570 | 750 | 7317.1 | 738 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 12 | 845 | 0.112552613 | 570 | 770 | 7507.6 | 766 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 13 | 716 | 0.095641372 | 591 | 768 | 7486.3 | 764 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 14 | 879 | 0.116911618 | 586 | 771 | 7518.5 | 765 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 15 | 814 | 0.108146888 | 594 | 772 | 7526.8 | 767 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 16 | 563 | 0.075080682 | 614 | 769 | 7498.6 | 765 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 17 | 588 | 0.077978914 | 618 | 773 | 7540.5 | 764 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 18 | 618 | 0.082304527 | 615 | 770 | 7508.7 | 766 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 19 | 621 | 0.081551715 | 624 | 781 | 7614.8 | 772 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 20 | 796 | 0.10728052 | 563 | 761 | 7419.8 | 761 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 21 | 543 | 0.08960396 | 381 | 621 | 6060 | 618 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 22 | 399 | 0.075356954 | 291 | 543 | 5294.8 | 525 |
| FL | Crystal River | 5 | 2013 | 9/20/2013 | 23 | 206 | 0.051680883 | 203 | 409 | 3986 | 387 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 0 | 114 | 0.040618542 | 143 | 288 | 2806.6 | 250 |

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| FL | Crystal River | 5 | 2013 | 9/21/2013 | 1 | 149 | 0.057571191 | 142 | 265 | 2588.1 | 227 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 2 | 133 | 0.051349369 | 147 | 265 | 2590.1 | 226 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 3 | 109 | 0.042277558 | 144 | 264 | 2578.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 4 | 107 | 0.041650448 | 151 | 263 | 2569 | 226 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 5 | 108 | 0.041718171 | 142 | 265 | 2588.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 6 | 123 | 0.047956956 | 143 | 263 | 2564.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 7 | 139 | 0.050527081 | 159 | 282 | 2751 | 243 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 8 | 398 | 0.091257194 | 274 | 447 | 4361.3 | 420 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 9 | 992 | 0.150849288 | 434 | 674 | 6576.1 | 658 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 10 | 981 | 0.130348126 | 541 | 772 | 7526 | 768 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 11 | 792 | 0.104877048 | 558 | 774 | 7551.7 | 770 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 12 | 798 | 0.105922642 | 542 | 773 | 7533.8 | 770 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 13 | 966 | 0.128210233 | 565 | 773 | 7534.5 | 768 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 14 | 981 | 0.129065362 | 554 | 779 | 7600.8 | 769 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 15 | 952 | 0.126256598 | 550 | 773 | 7540.2 | 769 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 16 | 879 | 0.116575157 | 542 | 773 | 7540.2 | 768 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 17 | 903 | 0.119231531 | 560 | 777 | 7573.5 | 769 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 18 | 840 | 0.111217032 | 558 | 774 | 7552.8 | 770 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 19 | 845 | 0.11212845 | 557 | 773 | 7536 | 769 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 20 | 748 | 0.108456096 | 455 | 707 | 6896.8 | 703 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 21 | 624 | 0.105128378 | 338 | 609 | 5935.6 | 595 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 22 | 639 | 0.114217281 | 307 | 574 | 5594.6 | 558 |
| FL | Crystal River | 5 | 2013 | 9/21/2013 | 23 | 384 | 0.089525097 | 214 | 440 | 4289.3 | 415 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 0 | 369 | 0.112216039 | 167 | 337 | 3288.3 | 303 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 1 | 99 | 0.037689877 | 147 | 269 | 2626.7 | 227 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 2 | 151 | 0.057550118 | 144 | 269 | 2623.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 3 | 165 | 0.063342163 | 143 | 267 | 2604.9 | 227 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 4 | 132 | 0.050681513 | 145 | 267 | 2604.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 5 | 139 | 0.053434821 | 150 | 266 | 2601.3 | 226 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 6 | 114 | 0.044228904 | 144 | 264 | 2577.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 7 | 77 | 0.027755749 | 163 | 284 | 2774.2 | 247 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 8 | 173 | 0.041200286 | 268 | 430 | 4199 | 402 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 9 | 912 | 0.145663632 | 413 | 642 | 6261 | 620 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 10 | 1433 | 0.189184907 | 568 | 777 | 7574.6 | 764 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 11 | 641 | 0.084337666 | 600 | 779 | 7600.4 | 768 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 12 | 597 | 0.079073895 | 596 | 774 | 7549.9 | 766 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 13 | 774 | 0.103050234 | 608 | 770 | 7510.9 | 767 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 14 | 839 | 0.111529105 | 624 | 771 | 7522.7 | 768 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 15 | 664 | 0.088077678 | 618 | 773 | 7538.8 | 770 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 16 | 841 | 0.110441372 | 609 | 781 | 7614.9 | 770 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 17 | 1014 | 0.134363364 | 581 | 774 | 7546.7 | 769 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 18 | 893 | 0.117967212 | 552 | 776 | 7569.9 | 768 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 19 | 837 | 0.110111295 | 547 | 779 | 7601.4 | 772 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 20 | 606 | 0.090233625 | 429 | 689 | 6715.9 | 686 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 21 | 648 | 0.105516837 | 368 | 630 | 6141.2 | 617 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 22 | 573 | 0.10931568 | 293 | 537 | 5241.7 | 521 |
| FL | Crystal River | 5 | 2013 | 9/22/2013 | 23 | 507 | 0.113725578 | 240 | 457 | 4458.1 | 431 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 0 | 201 | 0.073234715 | 161 | 281 | 2744.6 | 242 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 1 | 188 | 0.07256726 | 152 | 265 | 2590.7 | 227 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 2 | 165 | 0.06296268 | 159 | 268 | 2620.6 | 226 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 3 | 141 | 0.054155784 | 156 | 267 | 2603.6 | 227 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 4 | 154 | 0.05899705 | 156 | 267 | 2610.3 | 231 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 5 | 373 | 0.095916478 | 248 | 399 | 3888.8 | 367 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 6 | 500 | 0.106908422 | 271 | 479 | 4676.9 | 463 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 7 | 511 | 0.107855967 | 293 | 486 | 4737.8 | 470 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 8 | 1148 | 0.184952473 | 409 | 636 | 6207 | 628 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 9 | 1018 | 0.137485819 | 547 | 759 | 7404.4 | 760 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 10 | 786 | 0.105042298 | 583 | 767 | 7482.7 | 765 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 11 | 864 | 0.115375371 | 591 | 768 | 7488.6 | 769 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 12 | 908 | 0.122654635 | 570 | 759 | 7402.9 | 764 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 13 | 928 | 0.124483554 | 752 | 764 | 7454.8 | 764 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 14 | 943 | 0.127648054 | 517 | 758 | 7387.5 | 764 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 15 | 988 | 0.133203904 | 571 | 761 | 7417.2 | 766 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 16 | 1077 | 0.143795562 | 561 | 768 | 7489.8 | 766 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 17 | 1461 | 0.19330255 | 529 | 775 | 7558.1 | 770 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 18 | 1528 | 0.202991737 | 511 | 772 | 7527.4 | 771 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 19 | 1081 | 0.143444798 | 512 | 773 | 7536 | 774 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 20 | 610 | 0.094984507 | 385 | 658 | 6422.1 | 657 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 21 | 610 | 0.104748004 | 320 | 597 | 5823.5 | 588 |
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 22 | 814 | 0.151486954 | 279 | 551 | 5373.4 | 536 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|---------|-----|
| FL | Crystal River | 5 | 2013 | 9/23/2013 | 23 | 368 | 0.105323412 | 178 | 358 | 3494 | 342 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 0 | 223 | 0.08699723 | 146 | 263 | 2563.3 | 226 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 1 | 219 | 0.084788416 | 144 | 265 | 2582.9 | 226 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 2 | 190 | 0.07388109 | 141 | 263 | 2571.7 | 226 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 3 | 185 | 0.07181677 | 144 | 264 | 2576 | 226 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 4 | 291 | 0.096687377 | 180 | 308 | 3009.7 | 276 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 5 | 943 | 0.188554747 | 285 | 513 | 5001.2 | 487 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 6 | 1402 | 0.232323065 | 337 | 619 | 6034.7 | 610 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 7 | 206 | 0.185495345 | 61 | 113 | 1110.54 | 554 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 8 | 0 | 0 | 0 | 1 | 9.775 | 0 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 9 | 1 | 0.011633859 | 2 | 8 | 85.956 | 0 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 10 | 1 | 0.005589715 | 6 | 18 | 178.9 | 0 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 11 | 11 | 0.074475288 | 3 | 15 | 147.7 | 0 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 12 | 6 | 0.029268293 | 8 | 21 | 205 | 0 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 13 | 4 | 0.019704433 | 7 | 20 | 203 | 0 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 14 | 3 | 0.02073255 | 4 | 14 | 144.7 | 0 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 15 | 0 | 0 | 0 | 0 | 9.588 | 0 |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 16 | | #DIV/0! | | | | |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 17 | | #DIV/0! | | | | |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 18 | | #DIV/0! | | | | |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 19 | | #DIV/0! | | | | |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 20 | | #DIV/0! | | | | |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 21 | | #DIV/0! | | | | |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 22 | | #DIV/0! | | | | |
| FL | Crystal River | 5 | 2013 | 9/24/2013 | 23 | | #DIV/0! | | | | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 0 | | #DIV/0! | | | | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 1 | | #DIV/0! | | | | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 2 | | #DIV/0! | | | | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 3 | | #DIV/0! | | | | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 4 | | #DIV/0! | | | | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 5 | | #DIV/0! | | | | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 6 | | #DIV/0! | | | | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 7 | | #DIV/0! | | | | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 8 | | #DIV/0! | | | | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 9 | | #DIV/0! | | | | |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|---------|-----|--|
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 10 | | #DIV/0! | | | | | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 11 | | #DIV/0! | | | | | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 12 | | #DIV/0! | | | | | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 13 | | #DIV/0! | | | | | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 14 | 0 | 0 | 0 | 2 | 21.138 | 0 | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 15 | 7 | 0.05204461 | 30 | 13 | 134.5 | 0 | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 16 | 7 | 0.060462103 | 3 | 11 | 115.775 | 0 | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 17 | 2 | 0.014682886 | 3 | 14 | 136.213 | 0 | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 18 | 9 | 0.039352864 | 7 | 23 | 228.7 | 0 | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 19 | 21 | 0.06527821 | 31 | 33 | 321.7 | 0 | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 20 | 39 | 0.090866729 | 66 | 44 | 429.2 | 0 | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 21 | 56 | 0.132985039 | 66 | 43 | 421.1 | 0 | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 22 | 103 | 0.24419156 | 67 | 43 | 421.8 | 0 | |
| FL | Crystal River | 5 | 2013 | 9/25/2013 | 23 | 79 | 0.146052875 | 82 | 55 | 540.9 | 0 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 0 | 75 | 0.137086456 | 83 | 56 | 547.1 | 17 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 1 | 93 | 0.123342175 | 122 | 77 | 754 | 34 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 2 | 174 | 0.165967188 | 198 | 107 | 1048.4 | 55 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 3 | 257 | 0.158798814 | 458 | 166 | 1618.4 | 115 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 4 | 429 | 0.226732202 | 609 | 194 | 1892.1 | 152 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 5 | 402 | 0.16 | 799 | 257 | 2512.5 | 213 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 6 | 277 | 0.096653756 | 576 | 294 | 2865.9 | 251 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 7 | 228 | 0.076279692 | 735 | 306 | 2989 | 251 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 8 | 550 | 0.134313414 | 671 | 420 | 4094.9 | 383 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 9 | 1419 | 0.222163076 | 281 | 655 | 6387.2 | 641 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 10 | 1540 | 0.208550574 | 398 | 757 | 7384.3 | 759 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 11 | 833 | 0.11313477 | 618 | 755 | 7362.9 | 765 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 12 | 772 | 0.105139869 | 712 | 753 | 7342.6 | 765 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 13 | 962 | 0.131059099 | 778 | 753 | 7340.2 | 765 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 14 | 992 | 0.134960478 | 757 | 754 | 7350.3 | 764 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 15 | 849 | 0.115820635 | 527 | 752 | 7330.3 | 764 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 16 | 856 | 0.115923187 | 553 | 757 | 7384.2 | 765 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 17 | 889 | 0.120305839 | 561 | 758 | 7389.5 | 768 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 18 | 940 | 0.126794 | 563 | 760 | 7413.6 | 768 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 19 | 942 | 0.126834523 | 571 | 762 | 7427 | 769 | |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 20 | 676 | 0.105187813 | 411 | 659 | 6426.6 | 658 | |

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|----|---------------|---|------|-----------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 21 | 283 | 0.06499024 | 239 | 446 | 4354.5 | 436 |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 22 | 130 | 0.043216648 | 153 | 308 | 3008.1 | 280 |
| FL | Crystal River | 5 | 2013 | 9/26/2013 | 23 | 96 | 0.037568974 | 143 | 262 | 2555.3 | 226 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 0 | 108 | 0.042347959 | 145 | 261 | 2550.3 | 227 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 1 | 91 | 0.035808444 | 149 | 260 | 2541.3 | 226 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 2 | 87 | 0.034202146 | 155 | 261 | 2543.7 | 226 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 3 | 77 | 0.030280389 | 147 | 260 | 2542.9 | 227 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 4 | 80 | 0.031207334 | 153 | 263 | 2563.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 5 | 102 | 0.037312068 | 161 | 280 | 2733.7 | 244 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 6 | 113 | 0.040102207 | 163 | 289 | 2817.8 | 252 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 7 | 107 | 0.037861364 | 161 | 290 | 2826.1 | 254 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 8 | 100 | 0.034971149 | 160 | 293 | 2859.5 | 258 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 9 | 98 | 0.034161815 | 172 | 294 | 2868.7 | 258 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 10 | 181 | 0.049542892 | 222 | 374 | 3653.4 | 344 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 11 | 230 | 0.054401817 | 274 | 433 | 4227.8 | 405 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 12 | 317 | 0.064970999 | 336 | 500 | 4879.1 | 478 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 13 | 434 | 0.080567313 | 420 | 552 | 5386.8 | 538 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 14 | 767 | 0.127014092 | 507 | 619 | 6038.7 | 606 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 15 | 628 | 0.098700237 | 572 | 652 | 6362.7 | 643 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 16 | 450 | 0.074976258 | 546 | 615 | 6001.9 | 605 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 17 | 347 | 0.063554278 | 464 | 560 | 5459.9 | 559 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 18 | 206 | 0.046926967 | 360 | 450 | 4389.8 | 433 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 19 | 185 | 0.048804939 | 291 | 388 | 3790.6 | 366 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 20 | 89 | 0.03403702 | 188 | 268 | 2614.8 | 229 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 21 | 96 | 0.037037037 | 197 | 265 | 2592 | 227 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 22 | 105 | 0.040257649 | 195 | 267 | 2608.2 | 227 |
| FL | Crystal River | 5 | 2013 | 9/27/2013 | 23 | 100 | 0.038370041 | 216 | 267 | 2606.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 0 | 93 | 0.035754104 | 208 | 266 | 2601.1 | 226 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 1 | 83 | 0.031934131 | 194 | 266 | 2599.1 | 227 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 2 | 81 | 0.03115145 | 192 | 266 | 2600.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 3 | 79 | 0.030330953 | 192 | 267 | 2604.6 | 226 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 4 | 76 | 0.029402662 | 201 | 265 | 2584.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 5 | 76 | 0.029348162 | 202 | 265 | 2589.6 | 226 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 6 | 90 | 0.034882369 | 190 | 264 | 2580.1 | 227 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 7 | 105 | 0.038156843 | 184 | 282 | 2751.8 | 246 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 8 | 140 | 0.042850147 | 245 | 335 | 3267.2 | 303 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 9 | 217 | 0.054558254 | 298 | 408 | 3977.4 | 377 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 10 | 257 | 0.061158441 | 327 | 431 | 4202.2 | 407 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 11 | 664 | 0.114439351 | 510 | 595 | 5802.2 | 571 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 12 | 1036 | 0.153841585 | 707 | 690 | 6734.2 | 684 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 13 | 1230 | 0.165634258 | 757 | 761 | 7426 | 765 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 14 | 957 | 0.127763537 | 756 | 768 | 7490.4 | 771 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 15 | 718 | 0.095765255 | 794 | 769 | 7497.5 | 770 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 16 | 544 | 0.073862865 | 869 | 755 | 7365 | 758 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 17 | 326 | 0.055620959 | 445 | 601 | 5861.1 | 593 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 18 | 277 | 0.051273508 | 383 | 554 | 5402.4 | 536 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 19 | 133 | 0.037230916 | 260 | 366 | 3572.3 | 350 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 20 | 74 | 0.028616729 | 201 | 265 | 2585.9 | 226 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 21 | 78 | 0.029734675 | 191 | 269 | 2623.2 | 227 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 22 | 85 | 0.032686022 | 174 | 266 | 2600.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/28/2013 | 23 | 98 | 0.037778035 | 168 | 266 | 2594.1 | 226 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 0 | 100 | 0.038529706 | 160 | 266 | 2595.4 | 226 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 1 | 92 | 0.035414582 | 150 | 266 | 2597.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 2 | 93 | 0.035744485 | 150 | 266 | 2601.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 3 | 91 | 0.034919417 | 153 | 267 | 2606 | 227 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 4 | 66 | 0.025546739 | 149 | 265 | 2583.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 5 | 56 | 0.021645022 | 173 | 265 | 2587.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 6 | 67 | 0.025929796 | 168 | 265 | 2583.9 | 226 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 7 | 87 | 0.030658632 | 187 | 291 | 2837.7 | 254 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 8 | 93 | 0.029595214 | 210 | 322 | 3142.4 | 287 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 9 | 159 | 0.040542608 | 286 | 402 | 3921.8 | 369 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 10 | 307 | 0.065494731 | 351 | 480 | 4687.4 | 458 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 11 | 852 | 0.118590279 | 797 | 737 | 7184.4 | 724 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 12 | 687 | 0.092160335 | 842 | 764 | 7454.4 | 765 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 13 | 602 | 0.080449018 | 613 | 767 | 7483 | 769 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 14 | 600 | 0.080193534 | 770 | 767 | 7481.9 | 767 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 15 | 684 | 0.091054313 | 270 | 770 | 7512 | 770 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 16 | 968 | 0.129725673 | 395 | 765 | 7461.9 | 767 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 17 | 1158 | 0.154935042 | 605 | 766 | 7474.1 | 765 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 18 | 945 | 0.125840602 | 683 | 770 | 7509.5 | 767 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 19 | 839 | 0.112120807 | 681 | 767 | 7483 | 763 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 20 | 528 | 0.085976682 | 466 | 630 | 6141.2 | 622 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 21 | 272 | 0.05899833 | 249 | 473 | 4610.3 | 462 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 22 | 75 | 0.027885187 | 115 | 276 | 2689.6 | 240 |
| FL | Crystal River | 5 | 2013 | 9/29/2013 | 23 | 84 | 0.031975638 | 131 | 269 | 2627 | 229 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 0 | 91 | 0.034943553 | 127 | 267 | 2604.2 | 226 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 1 | 102 | 0.039294245 | 135 | 266 | 2595.8 | 226 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 2 | 94 | 0.036174716 | 161 | 266 | 2598.5 | 226 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 3 | 82 | 0.031538462 | 150 | 266 | 2600 | 227 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 4 | 75 | 0.029108127 | 136 | 264 | 2576.6 | 226 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 5 | 110 | 0.037257824 | 121 | 302 | 2952.4 | 262 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 6 | 133 | 0.044961293 | 147 | 303 | 2958.1 | 268 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 7 | 121 | 0.041064277 | 112 | 302 | 2946.6 | 265 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 8 | 139 | 0.044624225 | 133 | 319 | 3114.9 | 289 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 9 | 233 | 0.059191139 | 212 | 403 | 3936.4 | 371 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 10 | 536 | 0.098128959 | 420 | 560 | 5462.2 | 536 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 11 | 927 | 0.134570159 | 592 | 706 | 6888.6 | 659 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 12 | 1177 | 0.156713934 | 751 | 770 | 7510.5 | 763 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 13 | 972 | 0.128250802 | 773 | 777 | 7578.9 | 769 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 14 | 799 | 0.10517171 | 797 | 779 | 7597.1 | 768 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 15 | 691 | 0.091347743 | 794 | 776 | 7564.5 | 770 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 16 | 728 | 0.096553005 | 799 | 773 | 7539.9 | 768 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 17 | 1039 | 0.138933462 | 650 | 767 | 7478.4 | 770 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 18 | 995 | 0.144336776 | 372 | 707 | 6893.6 | 705 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 19 | 757 | 0.12653996 | 197 | 613 | 5982.3 | 606 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 20 | 390 | 0.086168802 | 135 | 464 | 4526 | 446 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 21 | 120 | 0.040408122 | 89 | 304 | 2969.7 | 272 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 22 | 90 | 0.034376074 | 94 | 268 | 2618.1 | 226 |
| FL | Crystal River | 5 | 2013 | 9/30/2013 | 23 | 105 | 0.040325678 | 91 | 267 | 2603.8 | 227 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 0 | 132 | 0.050955414 | 95 | 265 | 2590.5 | 227 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 1 | 142 | 0.054541963 | 91 | 267 | 2603.5 | 226 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 2 | 150 | 0.057774525 | 96 | 266 | 2596.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 3 | 140 | 0.053437154 | 91 | 268 | 2619.9 | 226 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 4 | 362 | 0.139644331 | 127 | 266 | 2592.3 | 227 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 5 | 387 | 0.149265245 | 215 | 266 | 2592.7 | 226 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 6 | 360 | 0.139173464 | 421 | 265 | 2586.7 | 226 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 7 | 461 | 0.152674284 | 247 | 309 | 3019.5 | 273 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 8 | 868 | 0.226874722 | 172 | 392 | 3825.9 | 364 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 9 | 1906 | 0.348484294 | 344 | 561 | 5469.4 | 537 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 10 | 2138 | 0.338135982 | 531 | 648 | 6322.9 | 639 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 11 | 1914 | 0.257854179 | 831 | 761 | 7422.8 | 751 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 12 | 1664 | 0.221344294 | 887 | 771 | 7517.7 | 769 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 13 | 630 | 0.083753207 | 835 | 771 | 7522.1 | 770 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 14 | 584 | 0.077381741 | 618 | 774 | 7547 | 768 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 15 | 817 | 0.108604623 | 729 | 771 | 7522.7 | 768 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 16 | 1294 | 0.171613485 | 693 | 773 | 7540.2 | 768 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 17 | 1310 | 0.173067523 | 643 | 776 | 7569.3 | 770 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 18 | 1101 | 0.145760244 | 755 | 775 | 7553.5 | 772 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 19 | 948 | 0.128472693 | 575 | 757 | 7379 | 755 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 20 | 574 | 0.096810646 | 106 | 608 | 5929.1 | 597 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 21 | 717 | 0.132253661 | 428 | 556 | 5421.4 | 539 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 22 | 617 | 0.141685994 | 235 | 446 | 4354.7 | 421 |
| FL | Crystal River | 5 | 2013 | 10/1/2013 | 23 | 380 | 0.102046297 | 219 | 382 | 3723.8 | 352 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 0 | 372 | 0.101064986 | 198 | 377 | 3680.8 | 346 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 1 | 169 | 0.058239713 | 92 | 297 | 2901.8 | 260 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 2 | 166 | 0.062816923 | 79 | 271 | 2642.6 | 229 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 3 | 175 | 0.067724458 | 250 | 265 | 2584 | 227 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 4 | 159 | 0.060940554 | 300 | 267 | 2609.1 | 226 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 5 | 153 | 0.059020947 | 256 | 266 | 2592.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 6 | 173 | 0.067755454 | 135 | 262 | 2553.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 7 | 155 | 0.059402905 | 198 | 267 | 2609.3 | 231 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 8 | 338 | 0.096145641 | 302 | 360 | 3515.5 | 331 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 9 | 687 | 0.147923261 | 445 | 476 | 4644.3 | 451 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 10 | 1021 | 0.181041209 | 631 | 578 | 5639.6 | 556 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 11 | 1049 | 0.166412843 | 630 | 646 | 6303.6 | 634 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 12 | 1274 | 0.191957088 | 590 | 680 | 6636.9 | 668 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 13 | 1336 | 0.20088111 | 618 | 682 | 6650.7 | 671 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 14 | 1346 | 0.199644023 | 829 | 691 | 6742 | 681 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 15 | 845 | 0.125096228 | 702 | 693 | 6754.8 | 681 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 16 | 942 | 0.139808246 | 599 | 691 | 6737.8 | 681 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 17 | 1107 | 0.16469538 | 544 | 689 | 6721.5 | 681 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 18 | 882 | 0.130922693 | 538 | 691 | 6736.8 | 681 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 19 | 1041 | 0.155194776 | 536 | 688 | 6707.7 | 681 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 20 | 746 | 0.124832664 | 304 | 613 | 5976 | 604 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 21 | 892 | 0.157020138 | 340 | 582 | 5680.8 | 575 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 22 | 434 | 0.103185925 | 180 | 431 | 4206 | 411 |
| FL | Crystal River | 5 | 2013 | 10/2/2013 | 23 | 173 | 0.064250167 | 99 | 276 | 2692.6 | 245 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 0 | 179 | 0.068456479 | 88 | 268 | 2614.8 | 227 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 1 | 160 | 0.061316778 | 114 | 267 | 2609.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 2 | 136 | 0.052235366 | 135 | 267 | 2603.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 3 | 121 | 0.046179681 | 141 | 268 | 2620.2 | 227 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 4 | 130 | 0.04996925 | 130 | 266 | 2601.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 5 | 127 | 0.048703789 | 114 | 267 | 2607.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 6 | 122 | 0.04670214 | 114 | 268 | 2612.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 7 | 124 | 0.046094941 | 121 | 276 | 2690.1 | 238 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 8 | 192 | 0.060550632 | 155 | 325 | 3170.9 | 294 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 9 | 404 | 0.098808912 | 253 | 419 | 4088.7 | 389 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 10 | 911 | 0.166228742 | 367 | 562 | 5480.4 | 544 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 11 | 1883 | 0.253636853 | 400 | 761 | 7424 | 752 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 12 | 997 | 0.131991792 | 543 | 775 | 7553.5 | 770 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 13 | 843 | 0.111868995 | 617 | 773 | 7535.6 | 770 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 14 | 929 | 0.124148069 | 651 | 767 | 7483 | 768 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 15 | 1356 | 0.180964074 | 629 | 768 | 7493.2 | 769 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 16 | 1487 | 0.198502223 | 606 | 768 | 7491.1 | 768 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 17 | 1203 | 0.160310226 | 615 | 769 | 7504.2 | 769 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 18 | 1056 | 0.139934273 | 626 | 774 | 7546.4 | 770 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 19 | 746 | 0.10348463 | 511 | 739 | 7208.8 | 729 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 20 | 323 | 0.055940423 | 363 | 592 | 5774 | 575 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 21 | 242 | 0.054443195 | 240 | 456 | 4445 | 437 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 22 | 139 | 0.043990126 | 183 | 324 | 3159.8 | 290 |
| FL | Crystal River | 5 | 2013 | 10/3/2013 | 23 | 146 | 0.050968755 | 203 | 293 | 2864.5 | 252 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 0 | 202 | 0.070780336 | 142 | 292 | 2853.9 | 251 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 1 | 166 | 0.058638595 | 150 | 290 | 2830.9 | 252 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 2 | 157 | 0.054682874 | 155 | 294 | 2871.1 | 251 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 3 | 162 | 0.057341073 | 183 | 289 | 2825.2 | 252 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 4 | 128 | 0.045711021 | 176 | 287 | 2800.2 | 251 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 5 | 132 | 0.04566684 | 167 | 296 | 2890.5 | 256 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 6 | 140 | 0.04869904 | 267 | 295 | 2874.8 | 255 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 7 | 117 | 0.041189931 | 769 | 291 | 2840.5 | 254 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 8 | 174 | 0.05497283 | 655 | 324 | 3165.2 | 293 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 9 | 494 | 0.10876266 | 290 | 466 | 4542 | 435 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 10 | 701 | 0.123904129 | 350 | 580 | 5657.6 | 562 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 11 | 1190 | 0.159065391 | 538 | 767 | 7481.2 | 756 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 12 | 1000 | 0.132383701 | 566 | 775 | 7553.8 | 768 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 13 | 854 | 0.113604619 | 548 | 771 | 7517.3 | 764 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 14 | 1421 | 0.189237059 | 548 | 770 | 7509.1 | 763 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 15 | 1522 | 0.201477324 | 543 | 775 | 7554.2 | 766 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 16 | 1550 | 0.205856963 | 542 | 772 | 7529.5 | 767 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 17 | 1720 | 0.229021864 | 540 | 770 | 7510.2 | 766 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 18 | 1833 | 0.243973859 | 540 | 770 | 7513.1 | 766 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 19 | 1326 | 0.18014591 | 515 | 755 | 7360.7 | 751 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 20 | 861 | 0.142528431 | 374 | 619 | 6040.9 | 612 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 21 | 397 | 0.079666085 | 254 | 511 | 4983.3 | 492 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 22 | 67 | 0.020948629 | 156 | 328 | 3198.3 | 294 |
| FL | Crystal River | 5 | 2013 | 10/4/2013 | 23 | 43 | 0.016242351 | 145 | 271 | 2647.4 | 229 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 0 | 44 | 0.01690812 | 145 | 267 | 2602.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 1 | 51 | 0.019649393 | 150 | 266 | 2595.5 | 226 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 2 | 46 | 0.017596205 | 156 | 268 | 2614.2 | 226 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 3 | 47 | 0.017914999 | 167 | 269 | 2623.5 | 226 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 4 | 52 | 0.019874637 | 157 | 268 | 2616.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 5 | 64 | 0.024529531 | 159 | 267 | 2609.1 | 226 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 6 | 89 | 0.034146716 | 161 | 267 | 2606.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 7 | 246 | 0.088083644 | 178 | 286 | 2792.8 | 247 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 8 | 373 | 0.107925118 | 217 | 354 | 3456.1 | 327 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 9 | 424 | 0.102569065 | 235 | 424 | 4133.8 | 393 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 10 | 386 | 0.080596329 | 268 | 491 | 4789.3 | 468 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 11 | 1234 | 0.18405823 | 442 | 687 | 6704.4 | 670 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 12 | 1579 | 0.210898891 | 539 | 768 | 7487 | 766 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 13 | 1222 | 0.162370449 | 541 | 772 | 7526 | 765 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 14 | 1462 | 0.191918927 | 548 | 781 | 7617.8 | 766 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 15 | 1726 | 0.227608398 | 553 | 778 | 7583.2 | 765 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 16 | 1553 | 0.207003186 | 540 | 769 | 7502.3 | 766 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 17 | 1538 | 0.204388098 | 534 | 772 | 7524.9 | 765 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 18 | 1507 | 0.201177429 | 539 | 768 | 7490.9 | 765 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 19 | 907 | 0.131590401 | 441 | 707 | 6892.6 | 704 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 20 | 263 | 0.0529484 | 253 | 509 | 4967.1 | 488 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 21 | 96 | 0.028997765 | 152 | 339 | 3310.6 | 309 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 22 | 79 | 0.028754459 | 140 | 281 | 2747.4 | 239 |
| FL | Crystal River | 5 | 2013 | 10/5/2013 | 23 | 78 | 0.029594779 | 137 | 270 | 2635.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 0 | 94 | 0.035845027 | 139 | 269 | 2622.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 1 | 108 | 0.041248138 | 138 | 268 | 2618.3 | 227 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 2 | 99 | 0.038259391 | 142 | 265 | 2587.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 3 | 77 | 0.029682742 | 153 | 266 | 2594.1 | 227 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 4 | 96 | 0.036385688 | 147 | 270 | 2638.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 5 | 88 | 0.033147506 | 135 | 272 | 2654.8 | 226 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 6 | 113 | 0.04260132 | 143 | 272 | 2652.5 | 229 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 7 | 134 | 0.047504254 | 152 | 289 | 2820.8 | 252 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 8 | 177 | 0.053859964 | 177 | 337 | 3286.3 | 303 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 9 | 303 | 0.072420469 | 217 | 429 | 4183.9 | 398 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 10 | 429 | 0.08321049 | 293 | 529 | 5155.6 | 509 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 11 | 1237 | 0.174727386 | 481 | 726 | 7079.6 | 716 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 12 | 1275 | 0.169873161 | 540 | 770 | 7505.6 | 766 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 13 | 1048 | 0.139065817 | 557 | 773 | 7536 | 766 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 14 | 1033 | 0.136790392 | 543 | 774 | 7551.7 | 766 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 15 | 1074 | 0.143469723 | 539 | 768 | 7485.9 | 767 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 16 | 1234 | 0.164006326 | 541 | 772 | 7524.1 | 766 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 17 | 1385 | 0.183872338 | 542 | 772 | 7532.4 | 767 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 18 | 1277 | 0.168505225 | 545 | 777 | 7578.4 | 767 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 19 | 1255 | 0.168907552 | 549 | 762 | 7430.1 | 756 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 20 | 553 | 0.089515515 | 376 | 633 | 6177.7 | 628 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 21 | 709 | 0.134760131 | 289 | 539 | 5261.2 | 524 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 22 | 370 | 0.110546758 | 170 | 343 | 3347 | 317 |
| FL | Crystal River | 5 | 2013 | 10/6/2013 | 23 | 119 | 0.045185298 | 160 | 270 | 2633.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 0 | 83 | 0.031946422 | 161 | 266 | 2598.1 | 227 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 1 | 79 | 0.030111297 | 165 | 269 | 2623.6 | 226 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 2 | 101 | 0.038688424 | 172 | 267 | 2610.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 3 | 101 | 0.038615943 | 162 | 268 | 2615.5 | 226 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 4 | 112 | 0.043168241 | 160 | 266 | 2594.5 | 226 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 5 | 185 | 0.063608857 | 192 | 298 | 2908.4 | 261 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 6 | 135 | 0.045625063 | 189 | 303 | 2958.9 | 261 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 7 | 99 | 0.034729531 | 185 | 292 | 2850.6 | 254 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 8 | 188 | 0.054124082 | 232 | 356 | 3473.5 | 323 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 9 | 403 | 0.087219998 | 277 | 474 | 4620.5 | 451 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 10 | 264 | 0.05923001 | 263 | 457 | 4457.2 | 433 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 11 | 407 | 0.076825792 | 317 | 543 | 5297.7 | 525 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 12 | 396 | 0.078172809 | 273 | 519 | 5065.7 | 499 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 13 | 748 | 0.117571242 | 419 | 652 | 6362.1 | 639 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 14 | 1100 | 0.165473254 | 425 | 682 | 6647.6 | 676 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 15 | 993 | 0.149609028 | 438 | 681 | 6637.3 | 678 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 16 | 882 | 0.132669485 | 432 | 682 | 6648.1 | 673 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 17 | 783 | 0.135711314 | 328 | 592 | 5769.6 | 582 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 18 | 727 | 0.132538467 | 312 | 562 | 5485.2 | 549 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 19 | 697 | 0.137967893 | 520 | 518 | 5051.9 | 505 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 20 | 372 | 0.102978629 | 213 | 370 | 3612.4 | 339 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 21 | 348 | 0.119847092 | 34 | 297 | 2903.7 | 262 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 22 | 217 | 0.075274039 | 63 | 295 | 2882.8 | 257 |
| FL | Crystal River | 5 | 2013 | 10/7/2013 | 23 | 98 | 0.03681166 | 71 | 273 | 2662.2 | 233 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 0 | 89 | 0.034350998 | 228 | 265 | 2590.9 | 227 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 1 | 102 | 0.039522629 | 154 | 264 | 2580.8 | 226 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 2 | 106 | 0.040453383 | 157 | 268 | 2620.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 3 | 96 | 0.037354086 | 156 | 263 | 2570 | 227 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 4 | 105 | 0.040546803 | 158 | 265 | 2589.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 5 | 152 | 0.054913295 | 174 | 284 | 2768 | 248 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 6 | 205 | 0.063265747 | 184 | 332 | 3240.3 | 296 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 7 | 448 | 0.093247856 | 278 | 492 | 4804.4 | 469 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 8 | 792 | 0.11558669 | 465 | 703 | 6852 | 700 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 9 | 688 | 0.096796432 | 490 | 729 | 7107.7 | 726 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 10 | 573 | 0.080771345 | 489 | 727 | 7094.1 | 726 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 11 | 541 | 0.076014107 | 491 | 730 | 7117.1 | 726 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 12 | 562 | 0.078944781 | 469 | 730 | 7118.9 | 726 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 13 | 562 | 0.079256512 | 482 | 727 | 7090.9 | 726 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 14 | 842 | 0.11681303 | 490 | 739 | 7208.1 | 726 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 15 | 1240 | 0.17179036 | 498 | 740 | 7218.1 | 726 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 16 | 1238 | 0.171238087 | 491 | 741 | 7229.7 | 727 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 17 | 1135 | 0.160924429 | 465 | 723 | 7053 | 717 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 18 | 572 | 0.085438169 | 421 | 686 | 6694.9 | 680 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 19 | 526 | 0.086494664 | 340 | 623 | 6081.3 | 610 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 20 | 272 | 0.061798519 | 220 | 451 | 4401.4 | 433 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 21 | 129 | 0.040833122 | 132 | 324 | 3159.2 | 295 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 22 | 85 | 0.032532149 | 135 | 268 | 2612.8 | 227 |
| FL | Crystal River | 5 | 2013 | 10/8/2013 | 23 | 85 | 0.032714957 | 163 | 266 | 2598.2 | 226 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 0 | 86 | 0.033135548 | 163 | 266 | 2595.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 1 | 85 | 0.032840088 | 165 | 265 | 2588.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 2 | 108 | 0.041492182 | 169 | 267 | 2602.9 | 226 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 3 | 126 | 0.048581123 | 179 | 266 | 2593.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 4 | 123 | 0.047713255 | 162 | 264 | 2577.9 | 226 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 5 | 167 | 0.058171938 | 175 | 294 | 2870.8 | 255 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 6 | 256 | 0.075371706 | 207 | 348 | 3396.5 | 304 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 7 | 658 | 0.117567181 | 324 | 574 | 5596.8 | 558 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 8 | 806 | 0.120711087 | 420 | 685 | 6677.1 | 684 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 9 | 1023 | 0.145732724 | 435 | 720 | 7019.7 | 726 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 10 | 890 | 0.126429434 | 471 | 722 | 7039.5 | 726 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 11 | 781 | 0.110023244 | 454 | 728 | 7098.5 | 726 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 12 | 716 | 0.101002976 | 510 | 727 | 7088.9 | 726 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 13 | 737 | 0.103944826 | 475 | 727 | 7090.3 | 726 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 14 | 875 | 0.122924335 | 469 | 730 | 7118.2 | 726 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 15 | 1071 | 0.150505902 | 476 | 730 | 7116 | 726 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 16 | 891 | 0.125355244 | 476 | 729 | 7107.8 | 727 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 17 | 546 | 0.088922185 | 343 | 630 | 6140.2 | 630 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 18 | 416 | 0.0777773 | 272 | 548 | 5348.9 | 536 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 19 | 488 | 0.10699408 | 232 | 468 | 4561 | 459 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 20 | 176 | 0.058222237 | 163 | 310 | 3022.9 | 280 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 21 | 163 | 0.058544645 | 155 | 285 | 2784.2 | 253 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 22 | 121 | 0.046046122 | 147 | 269 | 2627.8 | 235 |
| FL | Crystal River | 5 | 2013 | 10/9/2013 | 23 | 125 | 0.048828125 | 148 | 262 | 2560 | 227 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 0 | 129 | 0.050600141 | 147 | 261 | 2549.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 1 | 128 | 0.050172468 | 150 | 261 | 2551.2 | 226 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 2 | 121 | 0.047397078 | 160 | 261 | 2552.9 | 226 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 3 | 118 | 0.046229187 | 145 | 261 | 2552.5 | 226 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 4 | 116 | 0.045429623 | 153 | 262 | 2553.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 5 | 133 | 0.051337476 | 152 | 265 | 2590.7 | 226 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 6 | 128 | 0.048838185 | 157 | 268 | 2620.9 | 227 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 7 | 126 | 0.050765512 | 151 | 254 | 2482 | 226 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 8 | 127 | 0.04951074 | 156 | 263 | 2565.1 | 227 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 9 | 121 | 0.046671295 | 155 | 266 | 2592.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 10 | 148 | 0.054284038 | 163 | 279 | 2726.4 | 245 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 11 | 338 | 0.09448995 | 203 | 367 | 3577.1 | 334 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 12 | 930 | 0.148042025 | 408 | 644 | 6282 | 635 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 13 | 915 | 0.122649223 | 507 | 765 | 7460.3 | 763 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 14 | 1375 | 0.185344944 | 519 | 761 | 7418.6 | 759 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 15 | 1222 | 0.160781012 | 539 | 779 | 7600.4 | 771 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 16 | 1025 | 0.135251039 | 538 | 777 | 7578.5 | 771 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 17 | 1009 | 0.132553862 | 532 | 781 | 7612 | 772 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 18 | 999 | 0.132653468 | 542 | 772 | 7530.9 | 771 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 19 | 1182 | 0.156647583 | 543 | 774 | 7545.6 | 771 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 20 | 942 | 0.136598947 | 441 | 707 | 6896.1 | 702 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 21 | 1040 | 0.197279815 | 284 | 540 | 5271.7 | 521 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 22 | 666 | 0.142728559 | 256 | 478 | 4666.2 | 452 |
| FL | Crystal River | 5 | 2013 | 10/10/2013 | 23 | 512 | 0.113977872 | 242 | 460 | 4492.1 | 432 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 0 | 300 | 0.082151268 | 200 | 374 | 3651.8 | 341 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 1 | 159 | 0.056557465 | 171 | 288 | 2811.3 | 255 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 2 | 167 | 0.058303949 | 180 | 293 | 2864.3 | 254 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 3 | 139 | 0.049924574 | 169 | 285 | 2784.2 | 249 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 4 | 134 | 0.047793987 | 173 | 287 | 2803.7 | 253 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 5 | 418 | 0.102950594 | 231 | 416 | 4060.2 | 390 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 6 | 1003 | 0.173824131 | 328 | 592 | 5770.2 | 566 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 7 | 965 | 0.137101128 | 457 | 722 | 7038.6 | 714 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 8 | 750 | 0.105986095 | 474 | 726 | 7076.4 | 726 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 9 | 880 | 0.124517142 | 452 | 725 | 7067.3 | 726 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 10 | 1005 | 0.139865006 | 503 | 737 | 7185.5 | 726 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 11 | 916 | 0.127775918 | 501 | 735 | 7168.8 | 727 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 12 | 876 | 0.121810471 | 503 | 737 | 7191.5 | 726 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 13 | 890 | 0.124228804 | 501 | 735 | 7164.2 | 727 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 14 | 965 | 0.134778419 | 501 | 734 | 7159.9 | 726 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 15 | 1036 | 0.144321854 | 502 | 736 | 7178.4 | 726 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 16 | 934 | 0.129687999 | 504 | 738 | 7201.9 | 727 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 17 | 894 | 0.124109783 | 504 | 739 | 7203.3 | 726 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 18 | 1052 | 0.140833757 | 552 | 766 | 7469.8 | 754 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 19 | 1044 | 0.137965667 | 552 | 776 | 7567.1 | 768 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 20 | 648 | 0.102684372 | 347 | 647 | 6310.6 | 635 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 21 | 624 | 0.10904325 | 303 | 587 | 5722.5 | 571 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 22 | 428 | 0.099041977 | 224 | 443 | 4321.4 | 419 |
| FL | Crystal River | 5 | 2013 | 10/11/2013 | 23 | 140 | 0.050182809 | 86 | 286 | 2789.8 | 251 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 0 | 98 | 0.037097324 | 81 | 271 | 2641.7 | 226 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 1 | 105 | 0.03990878 | 144 | 269 | 2631 | 227 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 2 | 102 | 0.038909022 | 175 | 269 | 2621.5 | 226 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 3 | 101 | 0.038554033 | 167 | 268 | 2619.7 | 226 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 4 | 96 | 0.036701457 | 162 | 268 | 2615.7 | 227 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 5 | 88 | 0.033820138 | 163 | 267 | 2602 | 227 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 6 | 114 | 0.041332802 | 171 | 283 | 2758.1 | 249 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 7 | 166 | 0.053405398 | 192 | 318 | 3108.3 | 283 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 8 | 231 | 0.063720622 | 221 | 371 | 3625.2 | 340 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 9 | 485 | 0.107208382 | 248 | 464 | 4523.9 | 436 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 10 | 893 | 0.158956194 | 320 | 576 | 5617.9 | 556 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 11 | 1571 | 0.216182744 | 486 | 745 | 7267 | 733 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 12 | 1321 | 0.174878869 | 536 | 775 | 7553.8 | 770 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 13 | 1104 | 0.144745123 | 541 | 782 | 7627.2 | 770 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 14 | 858 | 0.112727129 | 540 | 780 | 7611.3 | 770 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 15 | 881 | 0.116552892 | 544 | 775 | 7558.8 | 768 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 16 | 923 | 0.121549726 | 539 | 779 | 7593.6 | 771 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 17 | 958 | 0.126761495 | 536 | 775 | 7557.5 | 769 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 18 | 973 | 0.127896736 | 524 | 780 | 7607.7 | 770 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 19 | 866 | 0.117401442 | 486 | 756 | 7376.4 | 750 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 20 | 575 | 0.094316411 | 347 | 625 | 6096.5 | 609 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 21 | 576 | 0.10742661 | 289 | 550 | 5361.8 | 526 |

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|----|---------------|---|------|------------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 22 | 339 | 0.0828628 | 216 | 419 | 4091.1 | 389 |
| FL | Crystal River | 5 | 2013 | 10/12/2013 | 23 | 83 | 0.030513584 | 155 | 279 | 2720.1 | 239 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 0 | 95 | 0.036273387 | 157 | 268 | 2619 | 227 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 1 | 83 | 0.031749675 | 159 | 268 | 2614.2 | 227 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 2 | 86 | 0.033446117 | 156 | 263 | 2571.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 3 | 77 | 0.030018323 | 156 | 263 | 2565.1 | 226 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 4 | 84 | 0.032857422 | 155 | 262 | 2556.5 | 227 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 5 | 79 | 0.031162479 | 157 | 260 | 2535.1 | 226 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 6 | 92 | 0.035687963 | 157 | 264 | 2577.9 | 226 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 7 | 109 | 0.038966146 | 167 | 287 | 2797.3 | 253 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 8 | 176 | 0.051679587 | 204 | 349 | 3405.6 | 318 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 9 | 426 | 0.089207187 | 262 | 490 | 4775.4 | 461 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 10 | 709 | 0.140803114 | 271 | 516 | 5035.4 | 492 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 11 | 985 | 0.141655282 | 458 | 713 | 6953.5 | 700 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 12 | 790 | 0.104627447 | 521 | 774 | 7550.6 | 768 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 13 | 936 | 0.122672049 | 549 | 782 | 7630.1 | 771 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 14 | 961 | 0.127328616 | 535 | 774 | 7547.4 | 769 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 15 | 951 | 0.125225498 | 546 | 779 | 7594.3 | 770 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 16 | 924 | 0.121716679 | 539 | 778 | 7591.4 | 771 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 17 | 860 | 0.113631859 | 537 | 776 | 7568.3 | 772 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 18 | 954 | 0.125835938 | 545 | 777 | 7581.3 | 771 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 19 | 977 | 0.128410704 | 547 | 780 | 7608.4 | 770 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 20 | 646 | 0.098689236 | 373 | 671 | 6545.8 | 657 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 21 | 442 | 0.086958233 | 269 | 521 | 5082.9 | 501 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 22 | 247 | 0.072011662 | 137 | 351 | 3430 | 317 |
| FL | Crystal River | 5 | 2013 | 10/13/2013 | 23 | 106 | 0.040758257 | 83 | 266 | 2600.7 | 226 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 0 | 106 | 0.040882444 | 80 | 266 | 2592.8 | 227 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 1 | 96 | 0.037085683 | 181 | 265 | 2588.6 | 227 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 2 | 104 | 0.040330399 | 162 | 264 | 2578.7 | 227 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 3 | 91 | 0.035219444 | 155 | 265 | 2583.8 | 226 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 4 | 103 | 0.03979446 | 157 | 265 | 2588.3 | 227 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 5 | 152 | 0.051926756 | 178 | 300 | 2927.2 | 260 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 6 | 181 | 0.057451198 | 176 | 323 | 3150.5 | 286 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 7 | 357 | 0.089628681 | 227 | 408 | 3983.1 | 378 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 8 | 451 | 0.093066447 | 271 | 497 | 4846 | 476 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 9 | 642 | 0.115148689 | 323 | 572 | 5575.4 | 553 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 10 | 448 | 0.074023893 | 369 | 620 | 6052.1 | 609 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 11 | 897 | 0.121850166 | 471 | 755 | 7361.5 | 746 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 12 | 826 | 0.110340774 | 509 | 768 | 7485.9 | 765 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 13 | 595 | 0.078786033 | 521 | 774 | 7552.1 | 767 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 14 | 621 | 0.081997518 | 545 | 777 | 7573.4 | 769 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 15 | 820 | 0.108951278 | 534 | 772 | 7526.3 | 768 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 16 | 977 | 0.128124426 | 526 | 782 | 7625.4 | 769 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 17 | 936 | 0.12295728 | 548 | 781 | 7612.4 | 770 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 18 | 868 | 0.114300764 | 554 | 779 | 7594 | 770 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 19 | 889 | 0.116899853 | 547 | 780 | 7604.8 | 770 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 20 | 925 | 0.122385256 | 551 | 775 | 7558.1 | 768 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 21 | 677 | 0.104193921 | 396 | 666 | 6497.5 | 656 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 22 | 535 | 0.099545996 | 295 | 551 | 5374.4 | 527 |
| FL | Crystal River | 5 | 2013 | 10/14/2013 | 23 | 468 | 0.101386482 | 263 | 473 | 4616 | 454 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 0 | 380 | 0.086908792 | 240 | 448 | 4372.4 | 430 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 1 | 173 | 0.051457466 | 184 | 344 | 3362 | 320 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 2 | 147 | 0.052436327 | 179 | 287 | 2803.4 | 252 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 3 | 141 | 0.050078136 | 180 | 288 | 2815.6 | 252 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 4 | 150 | 0.050857802 | 191 | 302 | 2949.4 | 266 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 5 | 352 | 0.087031772 | 242 | 415 | 4044.5 | 387 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 6 | 311 | 0.072818376 | 230 | 438 | 4270.9 | 421 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 7 | 190 | 0.050214071 | 223 | 388 | 3783.8 | 358 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 8 | 240 | 0.062189055 | 223 | 396 | 3859.2 | 364 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 9 | 297 | 0.071820666 | 235 | 424 | 4135.3 | 395 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 10 | 198 | 0.052812675 | 213 | 384 | 3749.1 | 357 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 11 | 362 | 0.080718889 | 251 | 460 | 4484.7 | 434 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 12 | 331 | 0.074495859 | 248 | 455 | 4443.2 | 429 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 13 | 650 | 0.114808535 | 322 | 580 | 5661.6 | 559 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 14 | 1161 | 0.163224564 | 462 | 729 | 7112.9 | 729 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 15 | 790 | 0.10563192 | 523 | 767 | 7478.8 | 766 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 16 | 856 | 0.114217093 | 532 | 768 | 7494.5 | 766 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 17 | 992 | 0.131664521 | 527 | 773 | 7534.3 | 767 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 18 | 923 | 0.122682262 | 541 | 771 | 7523.5 | 767 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 19 | 782 | 0.108859068 | 502 | 737 | 7183.6 | 740 |

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|----|---------------|---|------|------------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 20 | 646 | 0.103308759 | 381 | 641 | 6253.1 | 636 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 21 | 700 | 0.125829124 | 311 | 570 | 5563.1 | 558 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 22 | 454 | 0.099657564 | 259 | 467 | 4555.6 | 455 |
| FL | Crystal River | 5 | 2013 | 10/15/2013 | 23 | 451 | 0.122851461 | 194 | 376 | 3671.1 | 355 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 0 | 83 | 0.030121575 | 159 | 282 | 2755.5 | 251 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 1 | 71 | 0.027431132 | 163 | 265 | 2588.3 | 227 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 2 | 80 | 0.031030604 | 162 | 264 | 2578.1 | 226 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 3 | 61 | 0.023622352 | 162 | 264 | 2582.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 4 | 78 | 0.029198173 | 173 | 274 | 2671.4 | 238 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 5 | 315 | 0.075713874 | 266 | 426 | 4160.4 | 400 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 6 | 508 | 0.092739654 | 312 | 562 | 5477.7 | 544 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 7 | 449 | 0.081923842 | 317 | 562 | 5480.7 | 554 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 8 | 460 | 0.082128191 | 324 | 574 | 5601 | 562 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 9 | 652 | 0.106313592 | 374 | 629 | 6132.8 | 619 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 10 | 650 | 0.101038363 | 398 | 660 | 6433.2 | 652 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 11 | 730 | 0.0966158 | 528 | 775 | 7555.7 | 766 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 12 | 572 | 0.07528396 | 547 | 779 | 7597.9 | 771 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 13 | 499 | 0.065903298 | 537 | 776 | 7571.7 | 771 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 14 | 556 | 0.073501223 | 506 | 776 | 7564.5 | 769 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 15 | 761 | 0.100476637 | 507 | 777 | 7573.9 | 770 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 16 | 992 | 0.131479542 | 535 | 774 | 7544.9 | 770 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 17 | 852 | 0.113257208 | 556 | 771 | 7522.7 | 770 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 18 | 748 | 0.098251698 | 555 | 781 | 7613.1 | 770 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 19 | 606 | 0.083137836 | 517 | 747 | 7289.1 | 744 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 20 | 489 | 0.076988475 | 406 | 651 | 6351.6 | 645 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 21 | 349 | 0.068294783 | 281 | 524 | 5110.2 | 511 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 22 | 330 | 0.070594275 | 238 | 479 | 4674.6 | 457 |
| FL | Crystal River | 5 | 2013 | 10/16/2013 | 23 | 125 | 0.037560096 | 156 | 341 | 3328 | 308 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 0 | 75 | 0.028327542 | 145 | 271 | 2647.6 | 227 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 1 | 72 | 0.027303754 | 147 | 270 | 2637 | 227 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 2 | 67 | 0.02586573 | 142 | 265 | 2590.3 | 227 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 3 | 81 | 0.031116745 | 153 | 267 | 2603.1 | 226 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 4 | 92 | 0.034407959 | 155 | 274 | 2673.8 | 235 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 5 | 288 | 0.073330957 | 212 | 403 | 3927.4 | 373 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 6 | 802 | 0.127512083 | 377 | 645 | 6289.6 | 630 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 7 | 830 | 0.112327618 | 495 | 758 | 7389.1 | 764 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 8 | 713 | 0.09602435 | 527 | 761 | 7425.2 | 765 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 9 | 857 | 0.113900666 | 534 | 772 | 7524.1 | 766 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 10 | 1009 | 0.135213004 | 567 | 765 | 7462.3 | 766 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 11 | 1005 | 0.134988113 | 558 | 763 | 7445.1 | 765 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 12 | 942 | 0.125661993 | 562 | 769 | 7496.3 | 766 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 13 | 860 | 0.115304686 | 551 | 765 | 7458.5 | 766 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 14 | 763 | 0.101890925 | 546 | 768 | 7488.4 | 765 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 15 | 674 | 0.090447945 | 558 | 764 | 7451.8 | 764 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 16 | 649 | 0.086091397 | 565 | 773 | 7538.5 | 765 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 17 | 643 | 0.086587665 | 564 | 761 | 7426 | 768 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 18 | 829 | 0.11034648 | 563 | 770 | 7512.7 | 769 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 19 | 889 | 0.117661073 | 559 | 775 | 7555.6 | 770 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 20 | 713 | 0.097521611 | 504 | 750 | 7311.2 | 746 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 21 | 511 | 0.07994493 | 389 | 655 | 6391.9 | 646 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 22 | 474 | 0.078397645 | 356 | 620 | 6046.1 | 608 |
| FL | Crystal River | 5 | 2013 | 10/17/2013 | 23 | 271 | 0.058243246 | 246 | 477 | 4652.9 | 464 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 0 | 224 | 0.056997455 | 227 | 403 | 3930 | 380 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 1 | 109 | 0.038842563 | 168 | 287 | 2806.2 | 254 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 2 | 104 | 0.036969891 | 168 | 288 | 2813.1 | 252 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 3 | 89 | 0.031551333 | 172 | 289 | 2820.8 | 251 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 4 | 89 | 0.031527861 | 172 | 289 | 2822.9 | 255 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 5 | 244 | 0.06416831 | 232 | 390 | 3802.5 | 361 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 6 | 530 | 0.098976619 | 321 | 549 | 5354.8 | 532 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 7 | 835 | 0.128264209 | 410 | 667 | 6510 | 655 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 8 | 1069 | 0.143775554 | 535 | 762 | 7435.2 | 760 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 9 | 842 | 0.113771484 | 547 | 759 | 7400.8 | 760 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 10 | 874 | 0.117103236 | 544 | 765 | 7463.5 | 761 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 11 | 902 | 0.121212121 | 528 | 763 | 7441.5 | 761 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 12 | 920 | 0.124482451 | 539 | 758 | 7390.6 | 762 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 13 | 954 | 0.127420863 | 584 | 768 | 7487 | 761 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 14 | 1397 | 0.186794673 | 575 | 767 | 7478.8 | 760 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 15 | 1065 | 0.142878225 | 559 | 764 | 7453.9 | 759 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 16 | 1019 | 0.136556733 | 544 | 765 | 7462.1 | 761 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 17 | 982 | 0.130302668 | 550 | 773 | 7536.3 | 766 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 18 | 1013 | 0.134046129 | 551 | 775 | 7557.1 | 766 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 19 | 1061 | 0.140768455 | 557 | 773 | 7537.2 | 767 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 20 | 1124 | 0.148722495 | 559 | 775 | 7557.7 | 767 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 21 | 1020 | 0.139816046 | 518 | 748 | 7295.3 | 743 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 22 | 412 | 0.064516129 | 402 | 655 | 6386 | 651 |
| FL | Crystal River | 5 | 2013 | 10/18/2013 | 23 | 284 | 0.058665565 | 271 | 496 | 4841 | 487 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 0 | 131 | 0.037049607 | 190 | 362 | 3535.8 | 339 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 1 | 77 | 0.029277567 | 157 | 269 | 2630 | 234 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 2 | 88 | 0.033634001 | 159 | 268 | 2616.4 | 227 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 3 | 109 | 0.04148588 | 162 | 269 | 2627.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 4 | 133 | 0.050722703 | 162 | 269 | 2622.1 | 227 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 5 | 187 | 0.056685562 | 191 | 338 | 3298.9 | 302 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 6 | 249 | 0.064977428 | 226 | 393 | 3832.1 | 361 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 7 | 445 | 0.092594519 | 293 | 493 | 4805.9 | 467 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 8 | 963 | 0.146308113 | 460 | 675 | 6582 | 662 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 9 | 955 | 0.125636404 | 585 | 779 | 7601.3 | 770 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 10 | 760 | 0.100771699 | 580 | 773 | 7541.8 | 770 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 11 | 1036 | 0.137861287 | 571 | 771 | 7514.8 | 769 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 12 | 1571 | 0.208209084 | 565 | 774 | 7545.3 | 769 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 13 | 1257 | 0.165216477 | 563 | 780 | 7608.2 | 769 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 14 | 1264 | 0.167441614 | 566 | 774 | 7548.9 | 768 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 15 | 1246 | 0.164755973 | 574 | 775 | 7562.7 | 769 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 16 | 1308 | 0.172059984 | 585 | 780 | 7602 | 770 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 17 | 1406 | 0.18574788 | 575 | 776 | 7569.4 | 771 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 18 | 1498 | 0.197505472 | 576 | 778 | 7584.6 | 770 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 19 | 1266 | 0.165682951 | 573 | 784 | 7641.1 | 772 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 20 | 1025 | 0.134104379 | 565 | 784 | 7643.3 | 770 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 21 | 906 | 0.120600607 | 548 | 770 | 7512.4 | 764 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 22 | 337 | 0.051574791 | 418 | 670 | 6534.2 | 660 |
| FL | Crystal River | 5 | 2013 | 10/19/2013 | 23 | 225 | 0.040915042 | 302 | 564 | 5499.2 | 553 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 0 | 110 | 0.029284916 | 202 | 385 | 3756.2 | 361 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 1 | 55 | 0.020546154 | 163 | 274 | 2676.9 | 234 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 2 | 59 | 0.022607096 | 164 | 267 | 2609.8 | 227 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 3 | 66 | 0.025341729 | 166 | 267 | 2604.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 4 | 73 | 0.028123435 | 166 | 266 | 2595.7 | 227 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 5 | 88 | 0.034062319 | 167 | 265 | 2583.5 | 226 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 6 | 123 | 0.047617204 | 170 | 265 | 2583.1 | 227 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 7 | 476 | 0.127555806 | 238 | 382 | 3731.7 | 353 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 8 | 1039 | 0.182101795 | 359 | 585 | 5705.6 | 570 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 9 | 1554 | 0.208154736 | 552 | 766 | 7465.6 | 753 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 10 | 1204 | 0.159749496 | 557 | 773 | 7536.8 | 771 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 11 | 1000 | 0.133044184 | 533 | 771 | 7516.3 | 769 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 12 | 883 | 0.118810549 | 527 | 762 | 7432 | 769 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 13 | 1020 | 0.136977103 | 528 | 764 | 7446.5 | 768 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 14 | 1187 | 0.157686381 | 534 | 772 | 7527.6 | 770 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 15 | 516 | 0.068615196 | 533 | 771 | 7520.2 | 770 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 16 | 1076 | 0.141660962 | 554 | 779 | 7595.6 | 770 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 17 | 1366 | 0.180733253 | 544 | 775 | 7558.1 | 770 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 18 | 1213 | 0.160017941 | 538 | 777 | 7580.4 | 770 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 19 | 1056 | 0.138529956 | 541 | 782 | 7622.9 | 771 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 20 | 1000 | 0.131166463 | 541 | 782 | 7623.9 | 773 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 21 | 303 | 0.040372009 | 532 | 770 | 7505.2 | 764 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 22 | 286 | 0.048122224 | 350 | 609 | 5943.2 | 599 |
| FL | Crystal River | 5 | 2013 | 10/20/2013 | 23 | 107 | 0.028226232 | 204 | 388 | 3790.8 | 372 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 0 | 61 | 0.021260282 | 152 | 294 | 2869.2 | 261 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 1 | 55 | 0.021224049 | 155 | 265 | 2591.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 2 | 57 | 0.022155712 | 154 | 264 | 2572.7 | 226 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 3 | 64 | 0.024803317 | 157 | 264 | 2580.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 4 | 99 | 0.034227631 | 173 | 296 | 2892.4 | 262 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 5 | 398 | 0.096489527 | 239 | 423 | 4124.8 | 395 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 6 | 559 | 0.120687422 | 259 | 475 | 4631.8 | 452 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 7 | 622 | 0.141344362 | 255 | 451 | 4400.6 | 431 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 8 | 953 | 0.16970582 | 342 | 576 | 5615.6 | 561 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 9 | 885 | 0.133086709 | 438 | 682 | 6649.8 | 668 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 10 | 1186 | 0.16015989 | 533 | 759 | 7405.1 | 752 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 11 | 909 | 0.120601815 | 535 | 773 | 7537.2 | 770 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 12 | 1655 | 0.220094421 | 541 | 771 | 7519.5 | 770 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 13 | 1593 | 0.210806304 | 544 | 775 | 7556.7 | 770 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 14 | 1800 | 0.23930124 | 549 | 771 | 7521.9 | 767 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 15 | 2419 | 0.318532564 | 554 | 779 | 7594.2 | 770 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 16 | 1679 | 0.221805356 | 552 | 776 | 7569.7 | 770 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 17 | 1271 | 0.167733421 | 553 | 777 | 7577.5 | 772 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 18 | 758 | 0.099891937 | 561 | 778 | 7588.2 | 773 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 19 | 466 | 0.061160474 | 563 | 781 | 7619.3 | 772 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 20 | 1057 | 0.13906065 | 562 | 779 | 7601 | 769 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 21 | 1124 | 0.148791401 | 566 | 775 | 7554.2 | 769 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 22 | 626 | 0.094447797 | 430 | 680 | 6628 | 674 |
| FL | Crystal River | 5 | 2013 | 10/21/2013 | 23 | 376 | 0.074873551 | 261 | 515 | 5021.8 | 499 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 0 | 268 | 0.071655838 | 198 | 383 | 3740.1 | 360 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 1 | 188 | 0.067696518 | 158 | 284 | 2777.1 | 249 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 2 | 237 | 0.090395911 | 162 | 269 | 2621.8 | 226 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 3 | 281 | 0.106779146 | 160 | 270 | 2631.6 | 226 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 4 | 326 | 0.115611036 | 174 | 289 | 2819.8 | 251 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 5 | 777 | 0.170189464 | 269 | 468 | 4565.5 | 440 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 6 | 1354 | 0.204859745 | 436 | 678 | 6609.4 | 654 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 7 | 1441 | 0.194197 | 563 | 761 | 7420.3 | 753 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 8 | 1124 | 0.14997665 | 569 | 768 | 7494.5 | 766 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 9 | 1026 | 0.135793319 | 2032 | 775 | 7555.6 | 771 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 10 | 990 | 0.130992233 | 3000 | 775 | 7557.7 | 770 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 11 | 966 | 0.128285149 | 3064 | 772 | 7530.1 | 769 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 12 | 1879 | 0.249356371 | 2773 | 773 | 7535.4 | 768 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 13 | 2438 | 0.322465445 | 2600 | 775 | 7560.5 | 770 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 14 | 2558 | 0.337542721 | 3069 | 777 | 7578.3 | 770 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 15 | 1848 | 0.244279653 | 3109 | 776 | 7565.1 | 770 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 16 | 1368 | 0.181254472 | 3124 | 774 | 7547.4 | 771 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 17 | 1224 | 0.16237298 | 3135 | 773 | 7538.2 | 770 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 18 | 1137 | 0.150178312 | 3142 | 776 | 7571 | 769 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 19 | 1160 | 0.153171711 | 3135 | 777 | 7573.2 | 770 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 20 | 1287 | 0.169574154 | 3142 | 778 | 7589.6 | 771 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 21 | 1190 | 0.157330407 | 3146 | 776 | 7563.7 | 769 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 22 | 585 | 0.088063948 | 2511 | 681 | 6642.9 | 677 |
| FL | Crystal River | 5 | 2013 | 10/22/2013 | 23 | 145 | 0.0311647 | 1391 | 477 | 4652.7 | 460 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 0 | 97 | 0.027446098 | 1046 | 362 | 3534.2 | 334 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 1 | 153 | 0.058776075 | 937 | 267 | 2603.1 | 229 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 2 | 152 | 0.058562897 | 950 | 266 | 2595.5 | 226 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 3 | 135 | 0.051975052 | 994 | 266 | 2597.4 | 226 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 4 | 153 | 0.050073638 | 1106 | 313 | 3055.5 | 281 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 5 | 442 | 0.093481663 | 1531 | 485 | 4728.2 | 461 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 6 | 913 | 0.168820843 | 1822 | 554 | 5408.1 | 552 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 7 | 748 | 0.162347528 | 1446 | 472 | 4607.4 | 460 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 8 | 911 | 0.174317369 | 1693 | 536 | 5226.1 | 524 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 9 | 738 | 0.128390251 | 1850 | 589 | 5748.1 | 576 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 10 | 189 | 0.038137902 | 1531 | 508 | 4955.7 | 495 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 11 | 420 | 0.076600401 | 1738 | 562 | 5483 | 548 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 12 | 1743 | 0.238979914 | 2742 | 748 | 7293.5 | 746 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 13 | 1267 | 0.170185902 | 2881 | 763 | 7444.8 | 766 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 14 | 1115 | 0.149568064 | 2974 | 764 | 7454.8 | 768 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 15 | 1046 | 0.141672987 | 2960 | 757 | 7383.2 | 768 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 16 | 1018 | 0.137653136 | 2995 | 758 | 7395.4 | 769 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 17 | 230 | 0.037339481 | 2118 | 632 | 6159.7 | 642 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 18 | 251 | 0.039204661 | 2317 | 656 | 6402.3 | 667 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 19 | 297 | 0.053852151 | 1831 | 565 | 5515.1 | 567 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 20 | 246 | 0.056504961 | 1441 | 446 | 4353.6 | 435 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 21 | 115 | 0.043103448 | 941 | 273 | 2668 | 252 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 22 | 117 | 0.046003224 | 867 | 260 | 2543.3 | 226 |
| FL | Crystal River | 5 | 2013 | 10/23/2013 | 23 | 88 | 0.034953924 | 873 | 258 | 2517.6 | 227 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 0 | 85 | 0.033852404 | 871 | 257 | 2510.9 | 226 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 1 | 91 | 0.036095355 | 892 | 258 | 2521.1 | 226 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 2 | 92 | 0.035952949 | 895 | 262 | 2558.9 | 227 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 3 | 84 | 0.03321865 | 900 | 259 | 2528.7 | 226 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 4 | 79 | 0.031437781 | 904 | 257 | 2512.9 | 227 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 5 | 155 | 0.046968274 | 1036 | 338 | 3300.1 | 311 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 6 | 174 | 0.047358537 | 1094 | 377 | 3674.1 | 356 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 7 | 168 | 0.045727973 | 1072 | 376 | 3673.9 | 357 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 8 | 207 | 0.053782997 | 1120 | 394 | 3848.8 | 376 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 9 | 189 | 0.048012194 | 1149 | 403 | 3936.5 | 384 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 10 | 177 | 0.044927279 | 1158 | 404 | 3939.7 | 387 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 11 | 267 | 0.061368024 | 1257 | 446 | 4350.8 | 429 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 12 | 223 | 0.052807313 | 1266 | 433 | 4222.9 | 419 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 13 | 183 | 0.045900324 | 1220 | 409 | 3986.9 | 391 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 14 | 314 | 0.073567312 | 1289 | 437 | 4268.2 | 420 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 15 | 230 | 0.056495787 | 1241 | 417 | 4071.1 | 401 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 16 | 177 | 0.04869192 | 1130 | 373 | 3635.1 | 352 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 17 | 386 | 0.087095828 | 1360 | 454 | 4431.9 | 435 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 18 | 707 | 0.114920109 | 2128 | 631 | 6152.1 | 621 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 19 | 455 | 0.080742476 | 1910 | 578 | 5635.2 | 574 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 20 | 207 | 0.049634336 | 638 | 427 | 4170.5 | 417 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 21 | 293 | 0.077235344 | 193 | 389 | 3793.6 | 369 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 22 | 147 | 0.045578569 | 180 | 330 | 3225.2 | 301 |
| FL | Crystal River | 5 | 2013 | 10/24/2013 | 23 | 160 | 0.057059306 | 176 | 287 | 2804.1 | 253 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 0 | 142 | 0.050721532 | 173 | 287 | 2799.6 | 254 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 1 | 146 | 0.052325998 | 175 | 286 | 2790.2 | 253 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 2 | 130 | 0.047296806 | 175 | 282 | 2748.6 | 252 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 3 | 150 | 0.053225463 | 180 | 289 | 2818.2 | 253 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 4 | 207 | 0.065120961 | 193 | 326 | 3178.7 | 298 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 5 | 228 | 0.058195926 | 219 | 402 | 3917.8 | 375 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 6 | 339 | 0.074337215 | 255 | 467 | 4560.3 | 449 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 7 | 357 | 0.075392803 | 260 | 485 | 4735.2 | 468 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 8 | 365 | 0.074048527 | 256 | 505 | 4929.2 | 492 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 9 | 628 | 0.114982515 | 349 | 560 | 5461.7 | 552 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 10 | 491 | 0.089305202 | 362 | 564 | 5498 | 556 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 11 | 447 | 0.078994804 | 362 | 580 | 5658.6 | 572 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 12 | 605 | 0.100468299 | 463 | 617 | 6021.8 | 609 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 13 | 720 | 0.112628467 | 517 | 655 | 6392.7 | 642 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 14 | 712 | 0.107816712 | 435 | 677 | 6603.8 | 669 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 15 | 2114 | 0.280308153 | 565 | 773 | 7541.7 | 769 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 16 | 1164 | 0.171792904 | 447 | 695 | 6775.6 | 698 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 17 | 341 | 0.06699279 | 264 | 522 | 5090.1 | 512 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 18 | 325 | 0.071175157 | 228 | 468 | 4566.2 | 452 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 19 | 188 | 0.059616299 | 164 | 323 | 3153.5 | 304 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 20 | 178 | 0.063548733 | 151 | 287 | 2801 | 253 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 21 | 179 | 0.060073162 | 160 | 305 | 2979.7 | 269 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 22 | 163 | 0.057082823 | 159 | 293 | 2855.5 | 259 |
| FL | Crystal River | 5 | 2013 | 10/25/2013 | 23 | 148 | 0.053033289 | 159 | 286 | 2790.7 | 252 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 0 | 147 | 0.052803621 | 161 | 285 | 2783.9 | 252 |

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|----|---------------|---|------|------------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 1 | 146 | 0.05255958 | 163 | 285 | 2777.8 | 251 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 2 | 302 | 0.108970196 | 160 | 284 | 2771.4 | 251 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 3 | 315 | 0.114662202 | 164 | 281 | 2747.2 | 251 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 4 | 269 | 0.096578466 | 164 | 285 | 2785.3 | 251 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 5 | 166 | 0.059594328 | 167 | 285 | 2785.5 | 253 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 6 | 178 | 0.063971249 | 169 | 285 | 2782.5 | 254 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 7 | 220 | 0.072268576 | 182 | 312 | 3044.2 | 281 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 8 | 485 | 0.113833732 | 255 | 437 | 4260.6 | 418 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 9 | 450 | 0.096166175 | 262 | 480 | 4679.4 | 460 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 10 | 264 | 0.068104427 | 209 | 397 | 3876.4 | 377 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 11 | 269 | 0.072836564 | 199 | 378 | 3693.2 | 353 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 12 | 399 | 0.091285548 | 236 | 448 | 4370.9 | 427 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 13 | 578 | 0.113271145 | 290 | 523 | 5102.8 | 506 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 14 | 762 | 0.13361623 | 347 | 585 | 5702.9 | 572 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 15 | 866 | 0.136700868 | 405 | 650 | 6335 | 641 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 16 | 560 | 0.099178237 | 338 | 579 | 5646.4 | 567 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 17 | 389 | 0.082006957 | 256 | 486 | 4743.5 | 476 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 18 | 463 | 0.102422298 | 257 | 463 | 4520.5 | 446 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 19 | 314 | 0.080798724 | 229 | 398 | 3886.2 | 379 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 20 | 172 | 0.056395292 | 186 | 312 | 3049.9 | 284 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 21 | 196 | 0.063287052 | 195 | 317 | 3097 | 282 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 22 | 138 | 0.048610377 | 190 | 291 | 2838.9 | 258 |
| FL | Crystal River | 5 | 2013 | 10/26/2013 | 23 | 134 | 0.048450663 | 188 | 283 | 2765.7 | 252 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 0 | 176 | 0.063334413 | 197 | 285 | 2778.9 | 252 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 1 | 182 | 0.065502969 | 200 | 285 | 2778.5 | 252 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 2 | 167 | 0.06006114 | 211 | 285 | 2780.5 | 252 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 3 | 152 | 0.054625171 | 217 | 285 | 2782.6 | 252 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 4 | 153 | 0.054966768 | 217 | 285 | 2783.5 | 252 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 5 | 134 | 0.048211844 | 216 | 285 | 2779.4 | 251 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 6 | 147 | 0.052875796 | 205 | 285 | 2780.1 | 251 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 7 | 181 | 0.057072586 | 222 | 325 | 3171.4 | 287 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 8 | 301 | 0.078655796 | 225 | 392 | 3826.8 | 364 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 9 | 301 | 0.079713983 | 241 | 387 | 3776 | 357 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 10 | 164 | 0.055302647 | 213 | 304 | 2965.5 | 267 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 11 | 258 | 0.070665571 | 241 | 374 | 3651 | 341 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 12 | 417 | 0.091577907 | 286 | 467 | 4553.5 | 444 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 13 | 408 | 0.087136664 | 276 | 480 | 4682.3 | 461 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 14 | 517 | 0.0919667 | 337 | 576 | 5621.6 | 563 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 15 | 712 | 0.118276355 | 379 | 617 | 6019.8 | 608 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 16 | 928 | 0.146321466 | 405 | 650 | 6342.2 | 644 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 17 | 661 | 0.115432304 | 326 | 587 | 5726.3 | 580 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 18 | 991 | 0.154344542 | 398 | 658 | 6420.7 | 650 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 19 | 653 | 0.118128041 | 309 | 567 | 5527.9 | 563 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 20 | 177 | 0.054371199 | 156 | 334 | 3255.4 | 311 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 21 | 245 | 0.080343674 | 173 | 312 | 3049.4 | 279 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 22 | 170 | 0.060947191 | 170 | 286 | 2789.3 | 251 |
| FL | Crystal River | 5 | 2013 | 10/27/2013 | 23 | 159 | 0.057196302 | 166 | 285 | 2779.9 | 251 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 0 | 162 | 0.057966866 | 173 | 286 | 2794.7 | 251 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 1 | 155 | 0.055593415 | 175 | 286 | 2788.1 | 251 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 2 | 141 | 0.050597481 | 175 | 285 | 2786.7 | 252 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 3 | 142 | 0.050640134 | 176 | 287 | 2804.1 | 251 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 4 | 168 | 0.057520457 | 184 | 299 | 2920.7 | 264 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 5 | 341 | 0.08833968 | 239 | 396 | 3860.1 | 367 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 6 | 633 | 0.117612085 | 312 | 552 | 5382.1 | 531 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 7 | 640 | 0.111170943 | 385 | 590 | 5756.9 | 577 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 8 | 474 | 0.084944714 | 390 | 572 | 5580.1 | 563 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 9 | 576 | 0.099289802 | 348 | 595 | 5801.2 | 584 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 10 | 444 | 0.085833591 | 294 | 530 | 5172.8 | 516 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 11 | 700 | 0.119112442 | 364 | 603 | 5876.8 | 588 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 12 | 810 | 0.115336969 | 491 | 720 | 7022.9 | 714 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 13 | 554 | 0.074951971 | 569 | 758 | 7391.4 | 764 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 14 | 483 | 0.064573919 | 561 | 767 | 7479.8 | 766 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 15 | 791 | 0.105303797 | 555 | 770 | 7511.6 | 766 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 16 | 1174 | 0.156433216 | 570 | 770 | 7504.8 | 771 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 17 | 898 | 0.119158196 | 580 | 773 | 7536.2 | 770 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 18 | 827 | 0.109245585 | 567 | 776 | 7570.1 | 771 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 19 | 922 | 0.123537845 | 559 | 765 | 7463.3 | 768 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 20 | 453 | 0.072012209 | 383 | 645 | 6290.6 | 637 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 21 | 751 | 0.144748762 | 275 | 532 | 5188.3 | 520 |
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 22 | 446 | 0.11499884 | 209 | 397 | 3878.3 | 374 |

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|----|---------------|---|------|------------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/28/2013 | 23 | 207 | 0.073552926 | 185 | 288 | 2814.3 | 253 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 0 | 207 | 0.074119164 | 187 | 286 | 2792.8 | 252 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 1 | 193 | 0.068376674 | 186 | 289 | 2822.6 | 252 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 2 | 177 | 0.063698852 | 180 | 285 | 2778.7 | 252 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 3 | 192 | 0.068686724 | 184 | 286 | 2795.3 | 252 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 4 | 205 | 0.0691843 | 189 | 304 | 2963.1 | 268 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 5 | 478 | 0.120789427 | 249 | 406 | 3957.3 | 378 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 6 | 746 | 0.144361019 | 310 | 530 | 5167.6 | 516 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 7 | 750 | 0.137622254 | 337 | 559 | 5449.7 | 543 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 8 | 746 | 0.134392621 | 338 | 569 | 5550.9 | 556 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 9 | 822 | 0.145830007 | 310 | 578 | 5636.7 | 565 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 10 | 734 | 0.132409712 | 327 | 568 | 5543.4 | 554 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 11 | 941 | 0.153858731 | 360 | 627 | 6116 | 616 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 12 | 877 | 0.138112411 | 374 | 651 | 6349.9 | 645 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 13 | 902 | 0.141193413 | 383 | 655 | 6388.4 | 650 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 14 | 837 | 0.131232361 | 389 | 654 | 6378 | 650 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 15 | 948 | 0.150304414 | 372 | 647 | 6307.2 | 636 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 16 | 726 | 0.127180996 | 319 | 585 | 5708.4 | 572 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 17 | 905 | 0.154515964 | 339 | 600 | 5857 | 584 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 18 | 891 | 0.139099212 | 390 | 657 | 6405.5 | 648 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 19 | 844 | 0.132358937 | 382 | 654 | 6376.6 | 644 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 20 | 794 | 0.125143821 | 374 | 651 | 6344.7 | 648 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 21 | 560 | 0.098425197 | 312 | 583 | 5689.6 | 573 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 22 | 354 | 0.073219161 | 261 | 496 | 4834.8 | 482 |
| FL | Crystal River | 5 | 2013 | 10/29/2013 | 23 | 96 | 0.02999625 | 166 | 328 | 3200.4 | 304 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 0 | 86 | 0.031037967 | 390 | 284 | 2770.8 | 252 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 1 | 65 | 0.023365326 | 456 | 285 | 2781.9 | 252 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 2 | 73 | 0.026186462 | 412 | 286 | 2787.7 | 252 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 3 | 63 | 0.022556391 | 156 | 286 | 2793 | 251 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 4 | 66 | 0.02268509 | 165 | 298 | 2909.4 | 265 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 5 | 162 | 0.038296062 | 253 | 434 | 4230.2 | 406 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 6 | 238 | 0.04357857 | 327 | 560 | 5461.4 | 544 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 7 | 234 | 0.042547775 | 341 | 564 | 5499.7 | 554 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 8 | 379 | 0.065727862 | 363 | 591 | 5766.2 | 580 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 9 | 590 | 0.092258135 | 428 | 656 | 6395.1 | 646 |

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|----|---------------|---|------|------------|----|------|-------------|------|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 10 | 765 | 0.119183012 | 417 | 658 | 6418.7 | 650 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 11 | 257 | 0.040185761 | 422 | 656 | 6395.3 | 648 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 12 | 69 | 0.012040624 | 355 | 588 | 5730.6 | 576 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 13 | 75 | 0.011827601 | 424 | 650 | 6341.1 | 638 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 14 | 73 | 0.01133963 | 437 | 660 | 6437.6 | 648 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 15 | 76 | 0.011846494 | 436 | 658 | 6415.4 | 648 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 16 | 89 | 0.014006043 | 444 | 652 | 6354.4 | 646 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 17 | 147 | 0.022947595 | 461 | 657 | 6405.9 | 647 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 18 | 328 | 0.051461474 | 490 | 653 | 6373.7 | 648 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 19 | 322 | 0.050525655 | 478 | 653 | 6373 | 646 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 20 | 642 | 0.100513527 | 466 | 655 | 6387.2 | 646 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 21 | 460 | 0.075720165 | 431 | 623 | 6075 | 619 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 22 | 177 | 0.041890517 | 253 | 433 | 4225.3 | 411 |
| FL | Crystal River | 5 | 2013 | 10/30/2013 | 23 | 118 | 0.042177503 | 179 | 287 | 2797.7 | 256 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 0 | 148 | 0.053387202 | 183 | 284 | 2772.2 | 252 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 1 | 164 | 0.059114011 | 183 | 284 | 2774.3 | 252 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 2 | 146 | 0.051911111 | 185 | 288 | 2812.5 | 251 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 3 | 160 | 0.056787933 | 118 | 289 | 2817.5 | 251 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 4 | 121 | 0.042985541 | 146 | 288 | 2814.9 | 252 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 5 | 190 | 0.057657876 | 240 | 338 | 3295.3 | 304 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 6 | 258 | 0.066397303 | 260 | 398 | 3885.7 | 375 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 7 | 248 | 0.065488922 | 257 | 388 | 3786.9 | 364 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 8 | 616 | 0.126673384 | 330 | 498 | 4862.9 | 478 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 9 | 1057 | 0.167615483 | 491 | 647 | 6306.1 | 633 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 10 | 808 | 0.126590211 | 497 | 654 | 6382.8 | 650 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 11 | 872 | 0.136949728 | 477 | 653 | 6367.3 | 646 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 12 | 929 | 0.146617847 | 456 | 650 | 6336.2 | 638 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 13 | 704 | 0.115519674 | 408 | 625 | 6094.2 | 611 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 14 | 1022 | 0.137682038 | 623 | 761 | 7422.9 | 756 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 15 | 1215 | 0.160400275 | 636 | 777 | 7574.8 | 770 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 16 | 836 | 0.110713813 | 626 | 774 | 7551 | 771 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 17 | 821 | 0.10866544 | 612 | 775 | 7555.3 | 769 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 18 | 903 | 0.119496606 | 1987 | 775 | 7556.7 | 771 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 19 | 880 | 0.116468362 | 498 | 775 | 7555.7 | 770 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 20 | 886 | 0.117074976 | 643 | 776 | 7567.8 | 772 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 21 | 755 | 0.104974834 | 510 | 737 | 7192.2 | 735 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 22 | 277 | 0.046710848 | 343 | 608 | 5930.1 | 599 |
| FL | Crystal River | 5 | 2013 | 10/31/2013 | 23 | 111 | 0.027688393 | 200 | 411 | 4008.9 | 390 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 0 | 63 | 0.021693468 | 104 | 298 | 2904.1 | 265 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 1 | 72 | 0.025808302 | 86 | 286 | 2789.8 | 251 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 2 | 80 | 0.028685145 | 86 | 286 | 2788.9 | 251 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 3 | 96 | 0.034255129 | 100 | 287 | 2802.5 | 251 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 4 | 136 | 0.047486034 | 191 | 293 | 2864 | 258 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 5 | 237 | 0.067135007 | 233 | 362 | 3530.2 | 330 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 6 | 351 | 0.077350258 | 290 | 465 | 4537.8 | 440 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 7 | 327 | 0.069490193 | 296 | 482 | 4705.7 | 460 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 8 | 689 | 0.112627707 | 422 | 627 | 6117.5 | 608 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 9 | 1749 | 0.233368025 | 644 | 769 | 7494.6 | 762 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 10 | 1140 | 0.152 | 622 | 769 | 7500 | 765 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 11 | 951 | 0.1268 | 615 | 769 | 7500 | 766 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 12 | 886 | 0.117722091 | 624 | 772 | 7526.2 | 767 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 13 | 846 | 0.112598823 | 608 | 770 | 7513.4 | 766 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 14 | 880 | 0.117074209 | 616 | 771 | 7516.6 | 766 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 15 | 957 | 0.126881008 | 610 | 773 | 7542.5 | 766 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 16 | 1028 | 0.136038218 | 619 | 775 | 7556.7 | 766 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 17 | 1066 | 0.141599033 | 617 | 772 | 7528.3 | 767 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 18 | 1100 | 0.146438223 | 608 | 770 | 7511.7 | 766 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 19 | 998 | 0.132804599 | 601 | 771 | 7514.8 | 767 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 20 | 956 | 0.127095548 | 624 | 771 | 7521.9 | 766 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 21 | 946 | 0.126565343 | 598 | 766 | 7474.4 | 763 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 22 | 264 | 0.042531254 | 415 | 636 | 6207.2 | 628 |
| FL | Crystal River | 5 | 2013 | 11/1/2013 | 23 | 111 | 0.026808356 | 231 | 424 | 4140.5 | 409 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 0 | 51 | 0.018338727 | 172 | 285 | 2781 | 246 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 1 | 48 | 0.018176999 | 169 | 270 | 2640.7 | 226 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 2 | 47 | 0.017748574 | 177 | 271 | 2648.1 | 228 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 3 | 44 | 0.016368439 | 172 | 275 | 2688.1 | 229 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 4 | 40 | 0.014931502 | 174 | 274 | 2678.9 | 230 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 5 | 42 | 0.015824573 | 169 | 272 | 2654.1 | 229 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 6 | 59 | 0.021034618 | 185 | 287 | 2804.9 | 246 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 7 | 76 | 0.023055454 | 220 | 338 | 3296.4 | 302 |

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|----|---------------|---|------|-----------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 8 | 224 | 0.045637912 | 323 | 503 | 4908.2 | 480 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 9 | 324 | 0.055985623 | 382 | 593 | 5787.2 | 574 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 10 | 242 | 0.043441578 | 356 | 571 | 5570.7 | 555 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 11 | 199 | 0.036647576 | 331 | 557 | 5430.1 | 541 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 12 | 151 | 0.03102336 | 296 | 499 | 4867.3 | 483 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 13 | 135 | 0.030537459 | 274 | 453 | 4420.8 | 435 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 14 | 200 | 0.044289922 | 261 | 463 | 4515.7 | 442 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 15 | 159 | 0.038754966 | 246 | 420 | 4102.7 | 401 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 16 | 78 | 0.025656207 | 170 | 311 | 3040.2 | 282 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 17 | 112 | 0.034108905 | 193 | 336 | 3283.6 | 301 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 18 | 156 | 0.042766675 | 204 | 374 | 3647.7 | 345 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 19 | 74 | 0.02648817 | 162 | 286 | 2793.7 | 254 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 20 | 67 | 0.025887717 | 160 | 265 | 2588.1 | 226 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 21 | 78 | 0.030197445 | 162 | 265 | 2583 | 226 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 22 | 80 | 0.031059518 | 159 | 264 | 2575.7 | 227 |
| FL | Crystal River | 5 | 2013 | 11/2/2013 | 23 | 77 | 0.030028859 | 159 | 263 | 2564.2 | 226 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 0 | 76 | 0.029582344 | 161 | 263 | 2569.1 | 227 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 1 | 72 | 0.027997045 | 164 | 263 | 2571.7 | 226 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 2 | 75 | 0.029307178 | 166 | 262 | 2559.1 | 227 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 3 | 83 | 0.032256811 | 164 | 264 | 2573.1 | 226 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 4 | 85 | 0.03306621 | 159 | 263 | 2570.6 | 227 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 5 | 83 | 0.032452299 | 161 | 262 | 2557.6 | 226 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 6 | 83 | 0.03249677 | 163 | 262 | 2554.1 | 227 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 7 | 76 | 0.029766567 | 163 | 262 | 2553.2 | 227 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 8 | 82 | 0.032192211 | 163 | 261 | 2547.2 | 226 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 9 | 84 | 0.032735776 | 164 | 263 | 2566 | 226 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 10 | 86 | 0.033613445 | 161 | 262 | 2558.5 | 226 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 11 | 72 | 0.02831079 | 160 | 260 | 2543.2 | 226 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 12 | 115 | 0.03866456 | 184 | 305 | 2974.3 | 271 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 13 | 182 | 0.04850617 | 210 | 385 | 3752.1 | 355 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 14 | 193 | 0.046177772 | 275 | 428 | 4179.5 | 408 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 15 | 130 | 0.036984353 | 217 | 360 | 3515 | 337 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 16 | 149 | 0.042310313 | 186 | 361 | 3521.6 | 332 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 17 | 109 | 0.037044589 | 170 | 301 | 2942.4 | 271 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 18 | 212 | 0.053124843 | 239 | 409 | 3990.6 | 384 |

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|----|---------------|---|------|-----------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 19 | 100 | 0.032167787 | 171 | 319 | 3108.7 | 294 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 20 | 79 | 0.03027864 | 107 | 267 | 2609.1 | 230 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 21 | 100 | 0.038574294 | 93 | 266 | 2592.4 | 226 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 22 | 82 | 0.031626041 | 88 | 266 | 2592.8 | 227 |
| FL | Crystal River | 5 | 2013 | 11/3/2013 | 23 | 82 | 0.031736202 | 173 | 265 | 2583.8 | 226 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 0 | 78 | 0.030158914 | 173 | 265 | 2586.3 | 226 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 1 | 75 | 0.029054002 | 170 | 264 | 2581.4 | 226 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 2 | 73 | 0.028350616 | 167 | 264 | 2574.9 | 226 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 3 | 81 | 0.031199445 | 173 | 266 | 2596.2 | 226 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 4 | 89 | 0.034373552 | 170 | 265 | 2589.2 | 227 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 5 | 91 | 0.034378542 | 174 | 271 | 2647 | 233 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 6 | 128 | 0.045317755 | 189 | 289 | 2824.5 | 261 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 7 | 105 | 0.037907506 | 191 | 284 | 2769.9 | 253 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 8 | 101 | 0.035937945 | 191 | 288 | 2810.4 | 253 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 9 | 124 | 0.042218515 | 199 | 301 | 2937.1 | 267 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 10 | 122 | 0.042011019 | 191 | 298 | 2904 | 261 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 11 | 143 | 0.046631449 | 196 | 314 | 3066.6 | 279 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 12 | 259 | 0.060409572 | 287 | 439 | 4287.4 | 411 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 13 | 276 | 0.059308922 | 311 | 477 | 4653.6 | 455 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 14 | 293 | 0.062685865 | 294 | 479 | 4674.1 | 461 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 15 | 296 | 0.064037384 | 286 | 474 | 4622.3 | 455 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 16 | 427 | 0.083855384 | 331 | 522 | 5092.1 | 506 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 17 | 682 | 0.116089058 | 399 | 602 | 5874.8 | 592 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 18 | 883 | 0.132233138 | 487 | 685 | 6677.6 | 679 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 19 | 859 | 0.129781834 | 469 | 679 | 6618.8 | 676 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 20 | 686 | 0.112851221 | 401 | 623 | 6078.8 | 623 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 21 | 279 | 0.060049072 | 246 | 476 | 4646.2 | 464 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 22 | 252 | 0.062593145 | 213 | 413 | 4026 | 391 |
| FL | Crystal River | 5 | 2013 | 11/4/2013 | 23 | 103 | 0.0392127 | 176 | 269 | 2626.7 | 237 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 0 | 110 | 0.042600984 | 183 | 264 | 2582.1 | 227 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 1 | 87 | 0.033667428 | 183 | 265 | 2584.1 | 227 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 2 | 88 | 0.034059682 | 178 | 265 | 2583.7 | 226 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 3 | 99 | 0.038167939 | 181 | 266 | 2593.8 | 226 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 4 | 92 | 0.035517122 | 176 | 265 | 2590.3 | 227 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 5 | 147 | 0.04966384 | 207 | 303 | 2959.9 | 267 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 6 | 185 | 0.055645792 | 199 | 341 | 3324.6 | 307 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 7 | 196 | 0.054238039 | 220 | 370 | 3613.7 | 344 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 8 | 233 | 0.059884857 | 252 | 399 | 3890.8 | 372 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 9 | 281 | 0.063772326 | 295 | 452 | 4406.3 | 425 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 10 | 583 | 0.107200647 | 375 | 558 | 5438.4 | 540 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 11 | 895 | 0.139111242 | 463 | 660 | 6433.7 | 654 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 12 | 1116 | 0.150511821 | 622 | 760 | 7414.7 | 751 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 13 | 1265 | 0.168365853 | 616 | 770 | 7513.4 | 772 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 14 | 2022 | 0.269427566 | 607 | 770 | 7504.8 | 773 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 15 | 1437 | 0.189041637 | 615 | 779 | 7601.5 | 773 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 16 | 912 | 0.120945283 | 625 | 773 | 7540.6 | 772 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 17 | 753 | 0.099793257 | 618 | 774 | 7545.6 | 769 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 18 | 788 | 0.104949124 | 638 | 770 | 7508.4 | 769 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 19 | 970 | 0.129307472 | 652 | 769 | 7501.5 | 768 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 20 | 975 | 0.133682507 | 605 | 748 | 7293.4 | 747 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 21 | 722 | 0.116127579 | 416 | 637 | 6217.3 | 628 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 22 | 752 | 0.146723119 | 302 | 525 | 5125.3 | 512 |
| FL | Crystal River | 5 | 2013 | 11/5/2013 | 23 | 361 | 0.09790627 | 217 | 378 | 3687.2 | 348 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 0 | 165 | 0.061663801 | 182 | 274 | 2675.8 | 232 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 1 | 173 | 0.066676944 | 171 | 266 | 2594.6 | 228 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 2 | 131 | 0.050047755 | 175 | 268 | 2617.5 | 226 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 3 | 137 | 0.053170845 | 175 | 264 | 2576.6 | 226 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 4 | 133 | 0.051018451 | 179 | 267 | 2606.9 | 227 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 5 | 135 | 0.052011096 | 192 | 266 | 2595.6 | 226 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 6 | 209 | 0.071715335 | 224 | 299 | 2914.3 | 263 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 7 | 483 | 0.121871215 | 265 | 406 | 3963.2 | 373 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 8 | 391 | 0.089428663 | 297 | 448 | 4372.2 | 422 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 9 | 796 | 0.136715731 | 489 | 597 | 5822.3 | 571 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 10 | 1229 | 0.170351376 | 728 | 740 | 7214.5 | 726 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 11 | 1018 | 0.137230056 | 890 | 761 | 7418.2 | 760 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 12 | 1129 | 0.149086203 | 961 | 777 | 7572.8 | 771 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 13 | 1103 | 0.144982781 | 699 | 780 | 7607.8 | 774 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 14 | 953 | 0.125637747 | 538 | 778 | 7585.3 | 774 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 15 | 1039 | 0.136807732 | 531 | 779 | 7594.6 | 775 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 16 | 1055 | 0.139386172 | 492 | 776 | 7568.9 | 772 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 17 | 1100 | 0.145208771 | 484 | 777 | 7575.3 | 769 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 18 | 1084 | 0.143164679 | 484 | 776 | 7571.7 | 770 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 19 | 1010 | 0.133838652 | 498 | 774 | 7546.4 | 771 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 20 | 969 | 0.128577684 | 504 | 773 | 7536.3 | 772 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 21 | 930 | 0.12691914 | 469 | 751 | 7327.5 | 751 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 22 | 448 | 0.069962832 | 358 | 657 | 6403.4 | 648 |
| FL | Crystal River | 5 | 2013 | 11/6/2013 | 23 | 354 | 0.073278271 | 246 | 495 | 4830.9 | 483 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 0 | 179 | 0.055255441 | 178 | 332 | 3239.5 | 299 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 1 | 160 | 0.061439214 | 164 | 267 | 2604.2 | 226 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 2 | 145 | 0.055698536 | 164 | 267 | 2603.3 | 227 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 3 | 137 | 0.052797903 | 163 | 266 | 2594.8 | 226 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 4 | 122 | 0.046890614 | 158 | 266 | 2601.8 | 227 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 5 | 138 | 0.051101648 | 167 | 277 | 2700.5 | 237 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 6 | 216 | 0.065783463 | 203 | 336 | 3283.5 | 302 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 7 | 285 | 0.072493259 | 232 | 403 | 3931.4 | 373 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 8 | 206 | 0.054293395 | 223 | 389 | 3794.2 | 359 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 9 | 374 | 0.08131849 | 262 | 471 | 4599.2 | 441 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 10 | 605 | 0.112512088 | 295 | 551 | 5377.2 | 529 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 11 | 409 | 0.076758502 | 293 | 546 | 5328.4 | 529 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 12 | 955 | 0.139495479 | 438 | 702 | 6846.1 | 689 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 13 | 1172 | 0.154036222 | 570 | 780 | 7608.6 | 775 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 14 | 954 | 0.12648997 | 558 | 773 | 7542.1 | 775 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 15 | 890 | 0.117709298 | 552 | 775 | 7561 | 775 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 16 | 841 | 0.111556216 | 542 | 773 | 7538.8 | 775 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 17 | 889 | 0.117773303 | 505 | 774 | 7548.4 | 771 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 18 | 1021 | 0.136475432 | 538 | 767 | 7481.2 | 771 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 19 | 1136 | 0.152291069 | 522 | 765 | 7459.4 | 770 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 20 | 659 | 0.098406678 | 408 | 687 | 6696.7 | 685 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 21 | 537 | 0.098711421 | 337 | 558 | 5440.1 | 549 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 22 | 388 | 0.085498336 | 272 | 465 | 4538.1 | 443 |
| FL | Crystal River | 5 | 2013 | 11/7/2013 | 23 | 135 | 0.043095192 | 169 | 321 | 3132.6 | 295 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 0 | 133 | 0.051122386 | 156 | 266 | 2601.6 | 226 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 1 | 134 | 0.051538462 | 161 | 266 | 2600 | 227 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 2 | 131 | 0.050629976 | 160 | 265 | 2587.4 | 227 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 3 | 147 | 0.056717339 | 160 | 265 | 2591.8 | 226 |

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|----|---------------|---|------|-----------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 4 | 144 | 0.055408057 | 161 | 266 | 2598.9 | 227 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 5 | 152 | 0.057735405 | 160 | 270 | 2632.7 | 231 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 6 | 182 | 0.057478525 | 190 | 324 | 3166.4 | 289 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 7 | 173 | 0.046855533 | 210 | 378 | 3692.2 | 350 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 8 | 181 | 0.048610179 | 223 | 382 | 3723.5 | 353 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 9 | 211 | 0.054806618 | 231 | 395 | 3849.9 | 362 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 10 | 277 | 0.063539397 | 265 | 447 | 4359.5 | 423 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 11 | 427 | 0.081314747 | 315 | 538 | 5251.2 | 516 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 12 | 942 | 0.143056737 | 447 | 675 | 6584.8 | 660 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 13 | 1214 | 0.158965025 | 549 | 783 | 7636.9 | 777 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 14 | 924 | 0.122005968 | 552 | 777 | 7573.4 | 775 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 15 | 845 | 0.112185019 | 519 | 772 | 7532.2 | 775 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 16 | 906 | 0.120082706 | 558 | 774 | 7544.8 | 776 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 17 | 1017 | 0.1350777 | 564 | 772 | 7529 | 775 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 18 | 1129 | 0.150162931 | 586 | 771 | 7518.5 | 775 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 19 | 970 | 0.132557123 | 541 | 750 | 7317.6 | 756 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 20 | 539 | 0.088343277 | 335 | 626 | 6101.2 | 621 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 21 | 611 | 0.122952469 | 188 | 509 | 4969.4 | 493 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 22 | 310 | 0.074035155 | 134 | 429 | 4187.2 | 409 |
| FL | Crystal River | 5 | 2013 | 11/8/2013 | 23 | 105 | 0.033949819 | 86 | 317 | 3092.8 | 289 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 0 | 99 | 0.035184988 | 84 | 288 | 2813.7 | 251 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 1 | 93 | 0.036168475 | 74 | 263 | 2571.3 | 226 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 2 | 86 | 0.033474758 | 74 | 263 | 2569.1 | 227 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 3 | 86 | 0.033396761 | 77 | 264 | 2575.1 | 226 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 4 | 87 | 0.033544109 | 98 | 266 | 2593.6 | 227 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 5 | 85 | 0.032980251 | 126 | 264 | 2577.3 | 226 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 6 | 110 | 0.040414432 | 185 | 279 | 2721.8 | 242 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 7 | 104 | 0.036215482 | 209 | 294 | 2871.7 | 256 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 8 | 126 | 0.039173014 | 183 | 330 | 3216.5 | 294 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 9 | 268 | 0.062049964 | 263 | 443 | 4319.1 | 413 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 10 | 304 | 0.063628943 | 267 | 490 | 4777.7 | 461 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 11 | 523 | 0.09351476 | 330 | 573 | 5592.7 | 548 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 12 | 1043 | 0.154294506 | 459 | 693 | 6759.8 | 674 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 13 | 1170 | 0.152761457 | 589 | 785 | 7659 | 777 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 14 | 779 | 0.102058195 | 587 | 783 | 7632.9 | 776 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 15 | 610 | 0.080022039 | 587 | 782 | 7622.9 | 773 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 16 | 675 | 0.089524921 | 542 | 773 | 7539.8 | 767 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 17 | 374 | 0.056755239 | 408 | 676 | 6589.7 | 668 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 18 | 638 | 0.102409348 | 355 | 639 | 6229.9 | 627 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 19 | 542 | 0.113232775 | 258 | 491 | 4786.6 | 474 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 20 | 359 | 0.083862829 | 235 | 439 | 4280.8 | 414 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 21 | 160 | 0.045783615 | 192 | 358 | 3494.7 | 328 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 22 | 173 | 0.050428496 | 185 | 352 | 3430.6 | 315 |
| FL | Crystal River | 5 | 2013 | 11/9/2013 | 23 | 84 | 0.03006012 | 167 | 286 | 2794.4 | 250 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 0 | 82 | 0.030221501 | 133 | 278 | 2713.3 | 241 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 1 | 70 | 0.027052095 | 113 | 265 | 2587.6 | 226 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 2 | 72 | 0.027813188 | 95 | 265 | 2588.7 | 226 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 3 | 67 | 0.02584378 | 108 | 266 | 2592.5 | 226 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 4 | 71 | 0.027423716 | 93 | 265 | 2589 | 226 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 5 | 67 | 0.026012346 | 97 | 264 | 2575.7 | 226 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 6 | 64 | 0.024807163 | 103 | 264 | 2579.9 | 226 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 7 | 82 | 0.031188194 | 97 | 269 | 2629.2 | 231 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 8 | 149 | 0.044125922 | 131 | 346 | 3376.7 | 310 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 9 | 131 | 0.03771195 | 135 | 356 | 3473.7 | 323 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 10 | 343 | 0.074583052 | 197 | 471 | 4598.9 | 446 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 11 | 626 | 0.104927925 | 196 | 612 | 5966 | 586 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 12 | 949 | 0.131790912 | 295 | 738 | 7200.8 | 727 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 13 | 629 | 0.083968549 | 599 | 768 | 7490.9 | 766 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 14 | 684 | 0.090675292 | 588 | 774 | 7543.4 | 766 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 15 | 882 | 0.116600346 | 559 | 776 | 7564.3 | 767 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 16 | 1016 | 0.133689488 | 577 | 779 | 7599.7 | 769 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 17 | 1110 | 0.146085309 | 539 | 779 | 7598.3 | 769 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 18 | 1032 | 0.135968379 | 645 | 778 | 7590 | 769 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 19 | 1024 | 0.135113738 | 560 | 777 | 7578.8 | 768 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 20 | 582 | 0.090471009 | 392 | 660 | 6433 | 656 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 21 | 269 | 0.055477644 | 324 | 497 | 4848.8 | 479 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 22 | 229 | 0.057902855 | 197 | 405 | 3954.9 | 376 |
| FL | Crystal River | 5 | 2013 | 11/10/2013 | 23 | 128 | 0.044487696 | 115 | 295 | 2877.2 | 260 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 0 | 116 | 0.04318368 | 96 | 275 | 2686.2 | 237 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 1 | 92 | 0.03564648 | 209 | 264 | 2580.9 | 226 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 2 | 79 | 0.030289088 | 190 | 267 | 2608.2 | 226 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 3 | 74 | 0.028360097 | 198 | 267 | 2609.3 | 226 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 4 | 75 | 0.02865877 | 183 | 268 | 2617 | 227 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 5 | 88 | 0.032972386 | 181 | 273 | 2668.9 | 237 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 6 | 147 | 0.045340983 | 210 | 332 | 3242.1 | 298 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 7 | 314 | 0.072882575 | 275 | 442 | 4308.3 | 412 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 8 | 347 | 0.073757599 | 282 | 482 | 4704.6 | 459 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 9 | 380 | 0.074534649 | 305 | 523 | 5098.3 | 516 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 10 | 1655 | 0.241948453 | 506 | 701 | 6840.3 | 682 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 11 | 949 | 0.125928875 | 678 | 773 | 7536 | 773 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 12 | 853 | 0.112751642 | 650 | 776 | 7565.3 | 773 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 13 | 894 | 0.118288391 | 627 | 775 | 7557.8 | 776 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 14 | 1003 | 0.131672224 | 624 | 781 | 7617.4 | 774 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 15 | 1137 | 0.149022897 | 640 | 782 | 7629.7 | 774 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 16 | 1109 | 0.145823198 | 638 | 780 | 7605.1 | 773 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 17 | 447 | 0.065584835 | 477 | 699 | 6815.6 | 690 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 18 | 327 | 0.048972623 | 494 | 685 | 6677.2 | 680 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 19 | 317 | 0.047071751 | 505 | 690 | 6734.4 | 678 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 20 | 339 | 0.050581916 | 509 | 687 | 6702 | 679 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 21 | 679 | 0.100535995 | 466 | 692 | 6753.8 | 679 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 22 | 346 | 0.051349025 | 471 | 691 | 6738.2 | 679 |
| FL | Crystal River | 5 | 2013 | 11/11/2013 | 23 | 191 | 0.0345495 | 337 | 567 | 5528.3 | 556 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 0 | 104 | 0.023409188 | 244 | 455 | 4442.7 | 434 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 1 | 54 | 0.016523868 | 127 | 335 | 3268 | 309 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 2 | 44 | 0.015586808 | 104 | 289 | 2822.9 | 252 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 3 | 53 | 0.018864567 | 101 | 288 | 2809.5 | 251 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 4 | 64 | 0.022607651 | 101 | 290 | 2830.9 | 253 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 5 | 103 | 0.032359409 | 114 | 326 | 3183 | 289 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 6 | 245 | 0.053366442 | 169 | 471 | 4590.9 | 442 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 7 | 727 | 0.124674167 | 309 | 598 | 5831.2 | 578 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 8 | 910 | 0.136152131 | 508 | 685 | 6683.7 | 673 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 9 | 1130 | 0.149690683 | 649 | 774 | 7548.9 | 771 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 10 | 884 | 0.117344094 | 632 | 772 | 7533.4 | 774 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 11 | 824 | 0.109212846 | 656 | 774 | 7544.9 | 773 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 12 | 901 | 0.118810576 | 659 | 778 | 7583.5 | 774 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 13 | 873 | 0.115412073 | 665 | 776 | 7564.2 | 774 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 14 | 735 | 0.096594867 | 669 | 780 | 7609.1 | 775 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 15 | 1034 | 0.136993561 | 664 | 774 | 7547.8 | 771 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 16 | 1239 | 0.163088547 | 630 | 779 | 7597.1 | 773 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 17 | 968 | 0.126771262 | 633 | 783 | 7635.8 | 773 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 18 | 869 | 0.114265427 | 616 | 780 | 7605.1 | 774 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 19 | 910 | 0.119400635 | 625 | 782 | 7621.4 | 775 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 20 | 924 | 0.123574017 | 613 | 767 | 7477.3 | 760 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 21 | 356 | 0.059094003 | 343 | 618 | 6024.3 | 607 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 22 | 514 | 0.092552579 | 333 | 569 | 5553.6 | 549 |
| FL | Crystal River | 5 | 2013 | 11/12/2013 | 23 | 436 | 0.108244991 | 213 | 413 | 4027.9 | 395 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 0 | 347 | 0.096058022 | 122 | 370 | 3612.4 | 345 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 1 | 205 | 0.066250848 | 89 | 317 | 3094.3 | 286 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 2 | 148 | 0.052167783 | 90 | 291 | 2837 | 252 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 3 | 148 | 0.052521381 | 87 | 289 | 2817.9 | 252 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 4 | 155 | 0.054729706 | 87 | 290 | 2832.1 | 254 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 5 | 289 | 0.085381706 | 115 | 347 | 3384.8 | 316 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 6 | 993 | 0.156402583 | 285 | 651 | 6349 | 621 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 7 | 460 | 0.071420808 | 457 | 660 | 6440.7 | 656 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 8 | 244 | 0.042192634 | 329 | 593 | 5783 | 577 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 9 | 242 | 0.043615392 | 316 | 569 | 5548.5 | 557 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 10 | 267 | 0.053021427 | 271 | 516 | 5035.7 | 495 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 11 | 446 | 0.088550043 | 282 | 516 | 5036.7 | 496 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 12 | 749 | 0.129872382 | 351 | 591 | 5767.2 | 576 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 13 | 815 | 0.128634111 | 430 | 650 | 6335.8 | 637 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 14 | 730 | 0.109721638 | 485 | 682 | 6653.2 | 676 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 15 | 680 | 0.101595649 | 495 | 686 | 6693.2 | 678 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 16 | 1278 | 0.172005384 | 631 | 762 | 7430 | 758 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 17 | 932 | 0.124328002 | 644 | 769 | 7496.3 | 767 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 18 | 838 | 0.111761646 | 637 | 769 | 7498.1 | 766 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 19 | 835 | 0.111102241 | 661 | 771 | 7515.6 | 766 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 20 | 957 | 0.127824972 | 643 | 768 | 7486.8 | 767 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 21 | 736 | 0.10636453 | 539 | 710 | 6919.6 | 706 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 22 | 339 | 0.058483568 | 371 | 594 | 5796.5 | 581 |
| FL | Crystal River | 5 | 2013 | 11/13/2013 | 23 | 150 | 0.034895082 | 257 | 441 | 4298.6 | 420 |

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|----|---------------|---|------|------------|----|-----|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 0 | 127 | 0.036181305 | 182 | 360 | 3510.1 | 330 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 1 | 119 | 0.040246212 | 115 | 303 | 2956.8 | 272 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 2 | 84 | 0.032398658 | 108 | 266 | 2592.7 | 226 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 3 | 72 | 0.02763067 | 200 | 267 | 2605.8 | 227 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 4 | 82 | 0.029724145 | 209 | 283 | 2758.7 | 243 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 5 | 327 | 0.074866065 | 301 | 448 | 4367.8 | 414 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 6 | 737 | 0.114942529 | 461 | 657 | 6411.9 | 632 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 7 | 752 | 0.117048267 | 494 | 659 | 6424.7 | 647 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 8 | 864 | 0.136949389 | 466 | 647 | 6308.9 | 635 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 9 | 706 | 0.116476663 | 430 | 621 | 6061.3 | 603 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 10 | 555 | 0.098301422 | 383 | 579 | 5645.9 | 558 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 11 | 510 | 0.096790723 | 326 | 540 | 5269.1 | 524 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 12 | 677 | 0.120041846 | 394 | 578 | 5639.7 | 556 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 13 | 850 | 0.140665597 | 435 | 620 | 6042.7 | 603 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 14 | 758 | 0.123047953 | 443 | 632 | 6160.2 | 613 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 15 | 686 | 0.118787879 | 410 | 592 | 5775 | 575 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 16 | 719 | 0.128207414 | 409 | 575 | 5608.1 | 555 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 17 | 773 | 0.131886506 | 445 | 601 | 5861.1 | 583 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 18 | 954 | 0.148097552 | 496 | 660 | 6441.7 | 655 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 19 | 519 | 0.097067405 | 374 | 548 | 5346.8 | 542 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 20 | 245 | 0.074898352 | 202 | 335 | 3271.1 | 319 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 21 | 110 | 0.040150381 | 194 | 281 | 2739.7 | 250 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 22 | 111 | 0.039902222 | 197 | 285 | 2781.8 | 252 |
| FL | Crystal River | 5 | 2013 | 11/14/2013 | 23 | 113 | 0.040904977 | 196 | 283 | 2762.5 | 250 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 0 | 92 | 0.035266608 | 182 | 267 | 2608.7 | 227 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 1 | 94 | 0.03675608 | 171 | 262 | 2557.4 | 225 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 2 | 92 | 0.035562428 | 178 | 265 | 2587 | 225 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 3 | 88 | 0.033846154 | 182 | 266 | 2600 | 225 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 4 | 89 | 0.034077421 | 185 | 268 | 2611.7 | 225 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 5 | 128 | 0.043931906 | 209 | 298 | 2913.6 | 260 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 6 | 292 | 0.070373316 | 286 | 425 | 4149.3 | 394 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 7 | 376 | 0.076147272 | 345 | 506 | 4937.8 | 478 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 8 | 430 | 0.082100239 | 361 | 537 | 5237.5 | 517 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 9 | 739 | 0.123302299 | 437 | 614 | 5993.4 | 599 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 10 | 879 | 0.135041711 | 494 | 667 | 6509.1 | 657 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 11 | 820 | 0.127586743 | 514 | 659 | 6427 | 657 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 12 | 956 | 0.144611847 | 535 | 678 | 6610.8 | 672 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 13 | 982 | 0.146939997 | 548 | 685 | 6683 | 681 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 14 | 913 | 0.136795421 | 554 | 684 | 6674.2 | 681 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 15 | 943 | 0.141296693 | 553 | 684 | 6673.9 | 681 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 16 | 981 | 0.146636771 | 548 | 686 | 6690 | 683 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 17 | 1180 | 0.158083704 | 694 | 765 | 7464.4 | 762 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 18 | 1243 | 0.163783221 | 690 | 778 | 7589.3 | 771 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 19 | 1116 | 0.150519941 | 667 | 760 | 7414.3 | 760 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 20 | 411 | 0.065720042 | 481 | 641 | 6253.8 | 635 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 21 | 618 | 0.114081075 | 373 | 555 | 5417.2 | 541 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 22 | 746 | 0.150551957 | 327 | 508 | 4955.1 | 487 |
| FL | Crystal River | 5 | 2013 | 11/15/2013 | 23 | 458 | 0.105908197 | 281 | 443 | 4324.5 | 422 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 0 | 263 | 0.07912154 | 219 | 341 | 3324 | 313 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 1 | 143 | 0.054989425 | 182 | 266 | 2600.5 | 227 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 2 | 140 | 0.053796496 | 179 | 267 | 2602.4 | 227 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 3 | 134 | 0.05121541 | 185 | 268 | 2616.4 | 226 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 4 | 137 | 0.052059584 | 186 | 270 | 2631.6 | 228 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 5 | 184 | 0.06282222 | 193 | 300 | 2928.9 | 262 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 6 | 235 | 0.071201333 | 204 | 338 | 3300.5 | 304 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 7 | 332 | 0.089070129 | 249 | 382 | 3727.4 | 348 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 8 | 710 | 0.140850659 | 352 | 517 | 5040.8 | 491 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 9 | 1074 | 0.17202441 | 518 | 640 | 6243.3 | 629 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 10 | 1453 | 0.193542372 | 653 | 770 | 7507.4 | 758 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 11 | 974 | 0.128587648 | 696 | 777 | 7574.6 | 770 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 12 | 874 | 0.115391725 | 681 | 777 | 7574.2 | 771 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 13 | 896 | 0.118637784 | 687 | 774 | 7552.4 | 771 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 14 | 1034 | 0.136734505 | 695 | 775 | 7562.1 | 771 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 15 | 1257 | 0.165114477 | 700 | 781 | 7612.9 | 774 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 16 | 1259 | 0.164844517 | 702 | 783 | 7637.5 | 775 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 17 | 1115 | 0.147299725 | 704 | 776 | 7569.6 | 772 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 18 | 1017 | 0.13439759 | 696 | 776 | 7567.1 | 771 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 19 | 983 | 0.129768977 | 719 | 777 | 7575 | 771 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 20 | 781 | 0.108004204 | 643 | 741 | 7231.2 | 735 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 21 | 659 | 0.103325546 | 503 | 654 | 6377.9 | 643 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 22 | 1290 | 0.204953846 | 503 | 645 | 6294.1 | 628 |
| FL | Crystal River | 5 | 2013 | 11/16/2013 | 23 | 465 | 0.088867654 | 345 | 536 | 5232.5 | 523 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 0 | 122 | 0.037163397 | 174 | 336 | 3282.8 | 310 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 1 | 97 | 0.037184697 | 146 | 267 | 2608.6 | 227 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 2 | 107 | 0.040783656 | 81 | 269 | 2623.6 | 226 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 3 | 114 | 0.043616329 | 81 | 268 | 2613.7 | 227 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 4 | 180 | 0.059602649 | 105 | 309 | 3020 | 276 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 5 | 194 | 0.059618931 | 113 | 333 | 3254 | 301 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 6 | 207 | 0.064381687 | 106 | 329 | 3215.2 | 301 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 7 | 201 | 0.062871442 | 92 | 328 | 3197 | 301 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 8 | 227 | 0.068055764 | 113 | 342 | 3335.5 | 318 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 9 | 461 | 0.100628656 | 210 | 470 | 4581.2 | 443 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 10 | 356 | 0.076531161 | 223 | 477 | 4651.7 | 456 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 11 | 727 | 0.13382667 | 418 | 557 | 5432.4 | 528 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 12 | 1753 | 0.241347028 | 719 | 745 | 7263.4 | 723 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 13 | 1035 | 0.135154546 | 758 | 785 | 7657.9 | 773 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 14 | 849 | 0.11122465 | 740 | 783 | 7633.2 | 772 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 15 | 875 | 0.114785711 | 739 | 782 | 7622.9 | 772 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 16 | 1018 | 0.133183317 | 749 | 784 | 7643.6 | 771 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 17 | 1225 | 0.161337056 | 728 | 779 | 7592.8 | 771 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 18 | 1267 | 0.16660092 | 722 | 780 | 7605 | 771 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 19 | 1167 | 0.153423433 | 722 | 780 | 7606.4 | 771 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 20 | 1145 | 0.150284162 | 685 | 781 | 7618.9 | 770 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 21 | 1059 | 0.139080414 | 685 | 781 | 7614.3 | 769 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 22 | 999 | 0.133228422 | 652 | 769 | 7498.4 | 760 |
| FL | Crystal River | 5 | 2013 | 11/17/2013 | 23 | 348 | 0.056401031 | 438 | 633 | 6170.1 | 621 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 0 | 207 | 0.044202434 | 276 | 480 | 4683 | 462 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 1 | 55 | 0.020043001 | 118 | 281 | 2744.1 | 249 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 2 | 59 | 0.022460789 | 107 | 269 | 2626.8 | 227 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 3 | 78 | 0.030110017 | 116 | 265 | 2590.5 | 226 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 4 | 146 | 0.053609459 | 128 | 279 | 2723.4 | 236 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 5 | 430 | 0.106335625 | 258 | 414 | 4043.8 | 383 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 6 | 1238 | 0.193728092 | 575 | 655 | 6390.4 | 633 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 7 | 1039 | 0.138129994 | 722 | 771 | 7521.9 | 767 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 8 | 983 | 0.130697229 | 722 | 771 | 7521.2 | 770 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 9 | 1194 | 0.15848155 | 693 | 773 | 7534 | 770 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 10 | 1122 | 0.147896235 | 682 | 778 | 7586.4 | 770 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 11 | 1048 | 0.137294975 | 671 | 783 | 7633.2 | 772 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 12 | 1064 | 0.139645374 | 685 | 781 | 7619.3 | 771 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 13 | 1100 | 0.143715704 | 673 | 785 | 7654 | 773 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 14 | 1063 | 0.139050584 | 672 | 784 | 7644.7 | 772 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 15 | 1049 | 0.13759362 | 686 | 782 | 7623.9 | 773 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 16 | 1145 | 0.149896578 | 672 | 783 | 7638.6 | 770 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 17 | 1266 | 0.167064754 | 666 | 777 | 7577.9 | 769 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 18 | 1188 | 0.157072216 | 658 | 776 | 7563.4 | 770 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 19 | 1101 | 0.145454065 | 651 | 776 | 7569.4 | 771 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 20 | 1020 | 0.132928466 | 675 | 787 | 7673.3 | 774 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 21 | 1692 | 0.222740018 | 683 | 779 | 7596.3 | 774 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 22 | 720 | 0.107849011 | 520 | 685 | 6676 | 674 |
| FL | Crystal River | 5 | 2013 | 11/18/2013 | 23 | 384 | 0.074789654 | 333 | 526 | 5134.4 | 507 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 0 | 175 | 0.056555602 | 204 | 317 | 3094.3 | 283 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 1 | 160 | 0.060656608 | 197 | 270 | 2637.8 | 227 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 2 | 138 | 0.052359994 | 200 | 270 | 2635.6 | 226 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 3 | 112 | 0.04238571 | 203 | 271 | 2642.4 | 226 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 4 | 118 | 0.044573717 | 206 | 271 | 2647.3 | 227 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 5 | 290 | 0.084398009 | 244 | 352 | 3436.1 | 309 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 6 | 1053 | 0.231693364 | 322 | 466 | 4544.8 | 438 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 7 | 1565 | 0.289450322 | 394 | 554 | 5406.8 | 532 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 8 | 1112 | 0.235743057 | 349 | 484 | 4717 | 466 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 9 | 1023 | 0.220151502 | 329 | 476 | 4646.8 | 454 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 10 | 716 | 0.14699844 | 345 | 499 | 4870.8 | 482 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 11 | 259 | 0.045938276 | 439 | 578 | 5638 | 561 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 12 | 429 | 0.065926973 | 533 | 667 | 6507.2 | 652 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 13 | 764 | 0.122152051 | 494 | 641 | 6254.5 | 630 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 14 | 1009 | 0.171310209 | 435 | 604 | 5889.9 | 588 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 15 | 680 | 0.110783467 | 484 | 629 | 6138.1 | 612 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 16 | 345 | 0.061553284 | 420 | 575 | 5604.9 | 560 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 17 | 382 | 0.066394369 | 460 | 590 | 5753.5 | 571 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 18 | 730 | 0.112259334 | 559 | 667 | 6502.8 | 655 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 19 | 748 | 0.113828314 | 565 | 674 | 6571.3 | 658 |

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|----|---------------|---|------|------------|----|------|-------------|-----|-----|--------|-----|
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 20 | 567 | 0.086600583 | 582 | 671 | 6547.3 | 658 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 21 | 415 | 0.068709747 | 489 | 619 | 6039.9 | 609 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 22 | 261 | 0.053791142 | 325 | 497 | 4852.1 | 479 |
| FL | Crystal River | 5 | 2013 | 11/19/2013 | 23 | 89 | 0.028829646 | 157 | 316 | 3087.1 | 288 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 0 | 110 | 0.038925652 | 124 | 289 | 2825.9 | 252 |
| FL | Crystal River | 5 | 2013 | 11/20/2013 | 1 | 104 | 0.03960396 | 112 | 269 | 2626 | 232 |
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| FL | Crystal River | 5 | 2013 | 11/30/2013 | 7 | #DIV/0! |
| FL | Crystal River | 5 | 2013 | 11/30/2013 | 8 | #DIV/0! |
| FL | Crystal River | 5 | 2013 | 11/30/2013 | 9 | #DIV/0! |
| FL | Crystal River | 5 | 2013 | 11/30/2013 | 10 | #DIV/0! |
| FL | Crystal River | 5 | 2013 | 11/30/2013 | 11 | #DIV/0! |
| FL | Crystal River | 5 | 2013 | 11/30/2013 | 12 | #DIV/0! |
| FL | Crystal River | 5 | 2013 | 11/30/2013 | 13 | #DIV/0! |
| FL | Crystal River | 5 | 2013 | 11/30/2013 | 14 | #DIV/0! |
| FL | Crystal River | 5 | 2013 | 11/30/2013 | 15 | #DIV/0! |
| FL | Crystal River | 5 | 2013 | 11/30/2013 | 16 | #DIV/0! |
| FL | Crystal River | 5 | 2013 | 11/30/2013 | 17 | #DIV/0! |
| FL | Crystal River | 5 | 2013 | 11/30/2013 | 18 | #DIV/0! |
| FL | Crystal River | 5 | 2013 | 11/30/2013 | 19 | #DIV/0! |
| FL | Crystal River | 5 | 2013 | 11/30/2013 | 20 | #DIV/0! |
| FL | Crystal River | 5 | 2013 | 11/30/2013 | 21 | #DIV/0! |
| FL | Crystal River | 5 | 2013 | 11/30/2013 | 22 | #DIV/0! |
| FL | Crystal River | 5 | 2013 | 11/30/2013 | 23 | #DIV/0! |

Exhibit I

| Plant Name | Boiler ID | Step 6 | | | | Step 6 | | | |
|----------------------------------|-----------|--|--|--|--|--|--|--|--|
| | | Ozone Season NO _x 2012 State Budget for Existing Units (tons) | Ozone Season NO _x 2014 State Budget for Existing Units (tons) | Initial Heat Input Based 2012 Ozone Season NO _x Allocation (tons) | Initial Heat Input Based 2014 Ozone Season NO _x Allocation (tons) | 2003 Ozone Season NO _x Emissions (tons) | 2004 Ozone Season NO _x Emissions (tons) | 2005 Ozone Season NO _x Emissions (tons) | 2006 Ozone Season NO _x Emissions (tons) |
| Calculation | | | | Column BS x column BT | Column BS x column BU | | | | |
| Big Bend | BB01 | 28,071 | 27,268 | 375 | 364 | 3,490 | 3,975 | 3,714 | 4,056 |
| Big Bend | BB02 | 28,071 | 27,268 | 375 | 365 | 3,610 | 3,941 | 3,985 | 4,626 |
| Big Bend | BB03 | 28,071 | 27,268 | 384 | 373 | 2,871 | 3,148 | 2,810 | 2,584 |
| Big Bend | BB04 | 28,071 | 27,268 | 435 | 423 | 2,515 | 1,369 | 1,428 | 2,407 |
| C D McIntosh Jr Power Plant | 3 | 28,071 | 27,268 | 327 | 318 | 2,396 | 2,079 | 2,841 | 1,870 |
| Cedar Bay Generating Co. LP | CBA | 28,071 | 27,268 | 107 | 104 | | | | |
| Cedar Bay Generating Co. LP | CBB | 28,071 | 27,268 | 110 | 107 | | | | |
| Cedar Bay Generating Co. LP | CBC | 28,071 | 27,268 | 102 | 99 | | | | |
| Crist Electric Generating Plant | 4 | 28,071 | 27,268 | 81 | 79 | 475 | 475 | 485 | 440 |
| Crist Electric Generating Plant | 5 | 28,071 | 27,268 | 77 | 75 | 450 | 440 | 480 | 379 |
| Crist Electric Generating Plant | 6 | 28,071 | 27,268 | 277 | 269 | 2,261 | 1,968 | 2,319 | 1,388 |
| Crist Electric Generating Plant | 7 | 28,071 | 27,268 | 488 | 474 | 3,957 | 2,189 | 634 | 753 |
| Crystal River | 1 | 28,071 | 27,268 | 280 | 272 | 1,939 | 1,811 | 1,803 | 2,052 |
| Crystal River | 2 | 28,071 | 27,268 | 351 | 341 | 2,447 | 2,515 | 2,201 | 2,631 |
| Crystal River | 4 | 28,071 | 27,268 | 712 | 691 | 6,446 | 5,773 | 6,214 | 5,837 |
| Crystal River | 5 | 28,071 | 27,268 | 674 | 654 | 5,926 | 5,252 | 6,752 | 5,393 |
| Curtis H. Stanton Energy Center | 1 | 28,071 | 27,268 | 454 | 441 | 2,781 | 2,773 | 2,969 | 3,093 |
| Curtis H. Stanton Energy Center | 2 | 28,071 | 27,268 | 445 | 432 | 1,288 | 1,192 | 1,318 | 1,259 |
| Deerhaven | B2 | 28,071 | 27,268 | 220 | 214 | 1,924 | 1,760 | 1,744 | 1,856 |
| Indiantown Cogeneration, LP | 01 | 28,071 | 27,268 | 312 | 303 | 926 | | 974 | 921 |
| Lansing Smith Generating Plant | 1 | 28,071 | 27,268 | 160 | 156 | 1,045 | 1,294 | 1,406 | 1,259 |
| Lansing Smith Generating Plant | 2 | 28,071 | 27,268 | 186 | 181 | 1,154 | 1,243 | 1,225 | 1,266 |
| Northside | 1A | 28,071 | 27,268 | 307 | 298 | 210 | 243 | 294 | 306 |
| Northside | 2A | 28,071 | 27,268 | 295 | 286 | 233 | 256 | 311 | 362 |
| Scholz Electric Generating Plant | 1 | 28,071 | 27,268 | 32 | 31 | 269 | 295 | 297 | 252 |
| Scholz Electric Generating Plant | 2 | 28,071 | 27,268 | 30 | 29 | 347 | 327 | 409 | 225 |
| Seminole (136) | 1 | 28,071 | 27,268 | 650 | 632 | 5,091 | 4,379 | 5,401 | 5,478 |
| Seminole (136) | 2 | 28,071 | 27,268 | 677 | 658 | 4,605 | 4,275 | 5,190 | 5,574 |
| St. Johns River Power | 1 | 28,071 | 27,268 | 639 | 621 | 5,671 | 5,676 | 4,562 | 4,549 |
| St. Johns River Power | 2 | 28,071 | 27,268 | 683 | 664 | 5,202 | 4,227 | 4,131 | 5,582 |

| | | | | | | | Step 8 | Steps 9 & 10 | | | |
|--|--|--|--|--|--|--|---|---|---|-----------------------|------------------------------------|
| 2007 Ozone Season NO _x Emissions (tons) | 2008 Ozone Season NO _x Emissions (tons) | 2009 Ozone Season NO _x Emissions (tons) | 2010 Ozone Season NO _x Emissions (tons) | 2011 Ozone Season Nox Emissions (tons) | 2012 Ozone Season Nox Emissions (tons) | 2013 Ozone Season Nox Emissions (tons) | Ozone Season NO _x Maximum Historic Baseline (2003-2010) (tons) | Final Transport Rule Unit Level NO _x Ozone Season Allocation 2012 (tons) | Final Transport Rule Unit Level NO _x Ozone Season Allocation 2013 (tons) | Proportion over limit | Deficit of Allowances for Facility |
| | | | | | | | Highest value of columns BX - CE | (Lesser of columns CF, CG, and BV + reapportionment if BV < (CF and CG)) | (Lesser of columns CF, CH, and BV + reapportionment if BV < (CF and CH)) | | |
| 4,457 | 3,651 | 2,001 | 475 | 549.122 | 406.486 | 612.176 | 4,457 | 530 | 530 | 1.15504906 | -76 |
| 4,146 | 3,554 | 689 | 495 | 492.923 | 545.399 | 618.556 | 4,626 | 531 | 531 | 1.16488889 | |
| 1,752 | 483 | 692 | 755 | 599.361 | 503.062 | 588.004 | 3,148 | 542 | 542 | 1.08487823 | |
| 521 | 495 | 689 | 360 | 474.159 | 483.427 | 474.805 | 2,515 | 615 | 615 | 0.77204065 | |
| 2,064 | 2,074 | 1,179 | 433 | 825.858 | 843.45 | 473.841 | 2,841 | 463 | 463 | 1.02341469 | -11 |
| | 294 | 243 | 307 | 258.374 | 236.44 | 221.496 | 307 | 152 | 152 | 1.45721053 | -186 |
| | 309 | 258 | 298 | 262.844 | 207.326 | 203.394 | 309 | 156 | 156 | 1.30380769 | |
| | 290 | 228 | 291 | 246.728 | 224.135 | 212.937 | 291 | 144 | 144 | 1.47872917 | |
| 439 | 448 | 74 | 181 | 168.362 | 5.579 | 22.28 | 485 | 115 | 115 | 0.19373913 | 117 |
| 355 | 391 | 345 | 249 | 208.943 | 158.908 | 144.767 | 480 | 108 | 108 | 1.34043519 | |
| 1,221 | 1,081 | 545 | 841 | 578.173 | 554.935 | 286.901 | 2,319 | 392 | 392 | 0.73189031 | |
| 685 | 647 | 613 | 1,498 | 1295.871 | 515.378 | 733.592 | 3,957 | 690 | 690 | 1.06317681 | |
| 1,992 | 1,595 | 1,655 | 1,583 | 1453.55 | 1110.451 | 1416.951 | 2,052 | 396 | 396 | 3.57815909 | -1,091 |
| 2,150 | 2,399 | 1,552 | 1,821 | 1542.348 | 1092.739 | 1289.292 | 2,631 | 496 | 496 | 2.59937903 | |
| 6,198 | 5,880 | 3,460 | 710 | 782.142 | 841.909 | 605.592 | 6,446 | 1,006 | 1,006 | 0.60198012 | |
| 5,654 | 4,841 | 1,027 | 456 | 470.398 | 1145.218 | 628.752 | 6,752 | 952 | 952 | 0.66045378 | |
| 2,839 | 3,032 | 2,013 | 2,050 | 1634.43 | 1041.756 | 1266.584 | 3,093 | 642 | 642 | 1.97287227 | -814 |
| 1,301 | 1,073 | 1,087 | 1,102 | 823.75 | 783.45 | 818.449 | 1,318 | 629 | 629 | 1.30119078 | |
| 1,627 | 1,652 | 435 | 229 | 243.11 | 137.853 | 326.238 | 1,924 | 311 | 311 | 1.04899678 | -15 |
| 918 | 963 | 592 | 642 | 698.634 | 672.046 | 725.515 | 974 | 441 | 441 | 1.64515873 | -285 |
| 1,305 | 1,389 | 556 | 626 | 504.82 | 426.511 | 554.309 | 1,406 | 226 | 226 | 2.45269469 | -427 |
| 1,335 | 1,034 | 610 | 782 | 593.491 | 460.682 | 361.529 | 1,335 | 263 | 263 | 1.37463498 | |
| 344 | 388 | 452 | 350 | 147.7 | 129.614 | 138.061 | 452 | 434 | 434 | 0.3181129 | 402 |
| 304 | 276 | 436 | 448 | 160.142 | 0 | 309.732 | 448 | 416 | 416 | 0.74454808 | |
| 403 | 339 | | 114 | 165.005 | 11.745 | 11.562 | 403 | 45 | 45 | 0.25693333 | 60 |
| 383 | 344 | 17 | 98 | 102.124 | 11.602 | 16.112 | 409 | 43 | 43 | 0.37469767 | |
| 3,962 | 3,930 | 289 | 485 | 449.303 | 451.525 | 455.43 | 5,478 | 919 | 919 | 0.49557127 | 948 |
| 3,867 | 4,398 | 575 | 507 | 389.561 | 457.371 | 473.012 | 5,574 | 957 | 957 | 0.49426541 | |
| 4,607 | 4,248 | 1,499 | 1,381 | 1276.374 | 3316.463 | 2919.223 | 5,676 | 903 | 903 | 3.23280509 | -3,261 |
| 4,738 | 5,322 | 1,126 | 1,448 | 1364.537 | 2910.599 | 2210.478 | 5,582 | 966 | 966 | 2.2882795 | |

Exhibit J

FIFTH AMENDMENT TO SETTLEMENT AGREEMENT AMONG THE ENVIRONMENTAL PROTECTION AGENCY, THE PLAINTIFFS IN CRONIN, ET AL. V. REILLY, 93 CIV. 314 (LTS) (SDNY), AND THE PLAINTIFFS IN RIVERKEEPER, ET AL. V. EPA, 06 CIV. 12987 (PKC) (SDNY)

WHEREAS, on November 22, 2010, the Environmental Protection Agency (“EPA”) entered into a settlement agreement (the “Settlement Agreement”) with the plaintiffs in two actions previously pending in the United States District Court for the Southern District of New York (collectively, “Riverkeeper”) – *Riverkeeper, et al. v. Jackson*, 93 Civ. 0314 (LTS), and *Riverkeeper, et al. v. EPA*, 06 Civ. 12987 (PKC) – concerning EPA’s issuance of rules implementing section 316(b) of the Clean Water Act (“CWA”), 33 U.S.C. § 1326(b);

WHEREAS, pursuant to Paragraph 4 of the Settlement Agreement, EPA agreed, *inter alia*, that on or before July 27, 2012, the “EPA Administrator shall sign for publication in the Federal Register a notice of its final action pertaining to issuance of requirements for implementing section 316(b) of the CWA at existing facilities,” Settlement Agreement ¶ 4.

WHEREAS, on March 11, 2011, EPA and Riverkeeper entered into an amendment to the Settlement Agreement (the “First Amendment”), pursuant to which the parties agreed to certain extensions of deadlines under Paragraphs 3 and 6(a)(i) of the Settlement Agreement;

WHEREAS, on July 17, 2012, EPA and Riverkeeper entered into an amendment to the Settlement Agreement (the “Second Amendment”), pursuant to which the parties agreed to extend the date on or before which EPA is to take the action under Paragraph 4 of the Settlement Agreement from July 27, 2012, to June 27, 2013;

WHEREAS, on June 18, 2013, pursuant to Section 7(a)(2) of the Endangered Species Act (“ESA”), 16 U.S.C. § 1536(a)(2) and its implementing regulations at 50 C.F.R. § 402.14(c), EPA requested formal consultation with the National Marine Fisheries Service and the U.S. Fish and Wildlife Service (collectively, the “Services”) on EPA’s final requirements for implementing section 316(b) of the CWA at existing facilities:

WHEREAS, on June 27, 2013, EPA and Riverkeeper entered into an amendment to the Settlement Agreement (the “Third Amendment”), pursuant to which the parties agreed to

extend the date on or before which EPA is to take the action under Paragraph 4 of the Settlement Agreement from June 27, 2013, to November 4, 2013;

WHEREAS, EPA and Riverkeeper recognize that, from October 1, 2013, to October 16, 2013, a lapse in funding caused a shutdown of certain federal agencies, including EPA, which prevented EPA staff from taking steps necessary during that period to complete the section 316(b) rulemaking, and that accounting for effects of the shutdown extends the deadline for EPA to complete the section 316(b) rulemaking to November 20, 2013;

WHEREAS, on November 12, 2013, EPA and Riverkeeper entered into an amendment to the Settlement Agreement (the "Fourth Amendment"), pursuant to which the parties agreed to extend the date on or before which EPA is to take the action under Paragraph 4 of the Settlement Agreement from November 20, 2013, to January 14, 2014;

WHEREAS, to enable EPA to complete the section 316(b) rulemaking, including to finalize the language of the rule and the preamble and supporting documents for the rule, EPA has requested further modification of the Settlement Agreement to extend the date on or before which EPA is to take the action under Paragraph 4 of the Settlement Agreement to April 17, 2014, and Riverkeeper has consented to such a modification; and

WHEREAS, EPA does not intend to seek a further extension of the date by which EPA is to take the action under Paragraph 4 of the Settlement Agreement beyond April 17, 2014, and Riverkeeper does not intend to agree to any further extension of the deadline for EPA to complete the section 316(b) rulemaking beyond April 17, 2014;

NOW, THEREFORE, EPA and Riverkeeper, intending to be bound by this Fifth Amendment to the Settlement Agreement, hereby stipulate and agree as follows:

1. Paragraph 4 of the Settlement Agreement shall be amended to provide:

"No later than April 17, 2014, the EPA Administrator shall sign for publication in the Federal Register a notice of its final action pertaining to issuance of requirements for implementing section 316(b) of the CWA at existing facilities. EPA shall make a copy of the notice available to the

Cronin Plaintiffs, the SDNY Phase III Plaintiffs, and the SDNY Phase III
Intervenors within five business days following signature.”

2. Within 10 days of the execution of this Fifth Amendment, a link to a copy of this Fifth
Amendment shall be posted on the Office of Water website with an explanation of the reasons
for the extension.

FOR EPA:

Dated: February 7, 2014

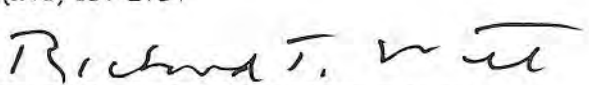
PREET BHARARA
United States Attorney
Southern District of New York



LI YU

Assistant United States Attorney
86 Chambers Street, Third Floor
New York, NY 10007
(212) 637-2734

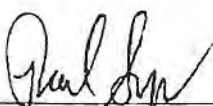
Dated: February 10 2014



RICHARD T. WITT
Office of General Counsel
U.S. Environmental Protection Agency
1200 Pennsylvania Avenue, N.W.
Washington, DC 20460

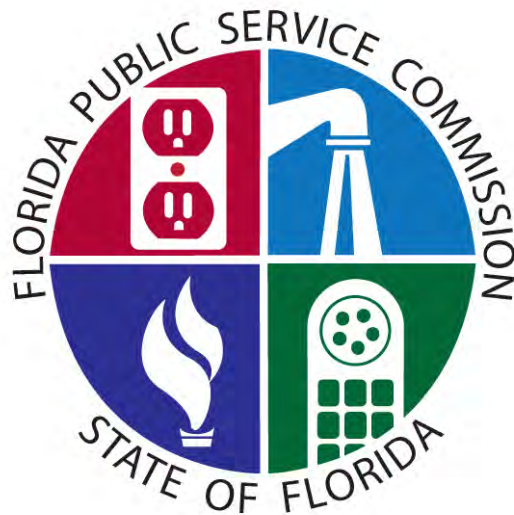
FOR RIVERKEEPER:

Dated: February 7, 2014



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REVIEW OF THE
2012 TEN-YEAR SITE PLANS
FOR FLORIDA'S ELECTRIC UTILITIES



FLORIDA PUBLIC SERVICE COMMISSION

TALLAHASSEE, FL
DECEMBER 2012

TABLE OF CONTENTS

| | |
|---|------------|
| TABLE OF CONTENTS | I |
| LIST OF FIGURES | III |
| LIST OF TABLES | V |
| LIST OF TEN-YEAR SITE PLAN UTILITIES | VI |
| LIST OF ACRONYMS | VII |
| EXECUTIVE SUMMARY | 1 |
| Growth in Demand and Capacity | 1 |
| Demand-Side Management | 2 |
| Fuel Diversity | 2 |
| New and Proposed EPA Rules..... | 4 |
| New Generation Facilities..... | 5 |
| Summary of the State of Florida | 6 |
| INTRODUCTION | 8 |
| Statutory Authority | 8 |
| Information Sources for the Report | 9 |
| Structure of the Report..... | 10 |
| Conclusions..... | 10 |
| STATEWIDE PERSPECTIVE | 11 |
| FLORIDA’S ELECTRICITY FORECAST | 12 |
| Customer Growth Projections | 12 |
| Seasonal Peak Demand Forecast | 14 |
| Demand Side Management | 15 |
| Projected Peak Demands..... | 17 |
| Annual Energy Consumption Forecasts..... | 18 |
| Historical Accuracy of Energy Forecasts..... | 19 |
| Reserve Margin Requirements..... | 20 |
| RENEWABLE GENERATION | 23 |
| Federal Legislation | 23 |
| State Legislation | 23 |
| Commission Rules | 24 |
| Renewable Payment Types | 24 |
| Renewable Resource Outlook..... | 26 |
| Existing Renewable Resources | 27 |
| Firm Capacity Contracts | 28 |
| Non-Firm Renewable Energy Generators..... | 29 |
| Utility-Owned Renewable Facilities | 30 |
| Existing Net Metering..... | 31 |
| Planned Renewables Additions..... | 32 |
| Updated Navigant Consulting Report | 34 |

TABLE OF CONTENTS (CONT.)

| | |
|---|------------|
| TRADITIONAL GENERATION | 36 |
| Fuel Price Forecasts | 36 |
| Fuel Diversity | 38 |
| Opportunities for Unit Modernization | 39 |
| Impact of EPA Regulations | 40 |
| Power Plant Siting Act..... | 42 |
| Transmission Capacity..... | 45 |
| UTILITY PERSPECTIVES | 46 |
| FLORIDA POWER AND LIGHT COMPANY (FPL) | 47 |
| PROGRESS ENERGY FLORIDA, INC. (PEF)..... | 53 |
| TAMPA ELECTRIC COMPANY (TECO)..... | 61 |
| GULF POWER COMPANY (GULF) | 67 |
| FLORIDA MUNICIPAL POWER AGENCY (FMPA)..... | 73 |
| GAINESVILLE REGIONAL UTILITIES (GRU)..... | 78 |
| JEA (FORMERLY JACKSONVILLE ELECTRIC AUTHORITY) | 83 |
| LAKELAND ELECTRIC (LAKELAND)..... | 89 |
| ORLANDO UTILITIES COMMISSION (OUC)..... | 94 |
| SEMINOLE ELECTRIC COOPERATIVE (SEC)..... | 99 |
| CITY OF TALLAHASSEE (TAL) | 105 |

LIST OF FIGURES

Statewide Perspective

| | |
|---|----|
| Figure 1. State of Florida: Natural Gas Usage (Total & Percent NEL) | 3 |
| Figure 2. State of Florida: Natural Gas Usage With Displaced Generation (Total & Percent NEL)..... | 4 |
| Figure 3. State of Florida: Existing and Projected Capacity | 7 |
| Figure 4. State of Florida: Percent State Net Energy for Load by Electric Utility (2011 Actual) | 9 |
| Figure 5. State of Florida: Annual Customer Growth Rate by Customer Class | 13 |
| Figure 6. State of Florida: Average Annual Residential Customer Energy Consumption..... | 14 |
| Figure 7. TYSP Utilities: Example Daily Load Curve | 15 |
| Figure 8. State of Florida: Historic & Projected Summer Peak Demand (With DSM Impacts)..... | 17 |
| Figure 9. State of Florida: Historic & Projected Winter Peak Demand (With DSM Impacts) | 18 |
| Figure 10. State of Florida: Historic & Projected Annual Energy for Load (With DSM Impacts) | 18 |
| Figure 11. State of Florida: Seasonal Reserve Margin (With LM/INT) | 20 |
| Figure 12. State of Florida: Seasonal Reserve Margin (Without LM/INT) | 21 |
| Figure 13. State of Florida: Seasonal Reserve Margin After Potential Unit Retirements (With LM/INT) | 22 |
| Figure 14. Investor Owned Utilities: Average Annual As-Available Energy Rates | 25 |
| Figure 15. Solar PV Output and Utility Seasonal Load Profiles..... | 35 |
| Figure 16. TYSP Utilities: Historic & Projected Weighted Average Fuel Prices (\$/MMBtu) | 37 |
| Figure 17. State of Florida: Net Energy for Load by Fuel Type..... | 38 |
| Figure 18. State of Florida: Net Energy for Load by Fuel Type After Generation Displacement..... | 39 |

Individual Utility Figures

| | |
|---|----|
| FPL Figure 1: Annual Customer Growth Rate by Customer Class | 47 |
| FPL Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts | 49 |
| FPL Figure 3. Seasonal Reserve Margin (With LM/INT) | 50 |
| FPL Figure 4. Seasonal Reserve Margin (Without LM/INT)..... | 51 |
| FPL Figure 5. Net Energy for Load by Fuel Type..... | 51 |
| PEF Figure 1. Annual Customer Growth Rate by Customer Class | 53 |
| PEF Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts | 55 |
| PEF Figure 3. Seasonal Reserve Margin (With LM/INT) | 56 |
| PEF Figure 4. Seasonal Reserve Margin (Without LM/INT)..... | 57 |
| PEF Figure 5. Seasonal Reserve Margin With Potential Unit Retirements / Delays (With LM/INT)..... | 58 |
| PEF Figure 6. Net Energy for Load by Fuel Type..... | 58 |
| PEF Figure 7. Net Energy for Load by Fuel Type with Displaced Generation | 59 |
| TECO Figure 1. Annual Customer Growth Rate by Customer Class | 61 |
| TECO Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts..... | 63 |
| TECO Figure 3. Seasonal Reserve Margin (With LM/INT) | 64 |
| TECO Figure 4. Seasonal Reserve Margin (Without LM/INT) | 65 |
| TECO Figure 5. Net Energy for Load by Fuel Type | 65 |
| GULF Figure 1. Annual Customer Growth Rate by Customer Class..... | 67 |
| GULF Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts..... | 69 |
| GULF Figure 3. Seasonal Reserve Margin..... | 70 |
| GULF Figure 4. Net Energy for Load by Fuel Type | 71 |
| GULF Figure 5. Net Energy for Load by Fuel Type with Displaced Generation..... | 71 |

LIST OF FIGURES (CONT.)

Individual Utility Figures

| | |
|---|-----|
| FMPA Figure 1. Annual Customer Growth Rate by Customer Class | 73 |
| FMPA Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts | 75 |
| FMPA Figure 3. Seasonal Reserve Margin | 76 |
| FMPA Figure 4. Net Energy for Load by Fuel Type..... | 77 |
| | |
| GRU Figure 1. Annual Customer Growth Rate by Customer Class..... | 78 |
| GRU Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts..... | 80 |
| GRU Figure 3. Seasonal Reserve Margin..... | 81 |
| GRU Figure 4. Net Energy for Load by Fuel Type | 82 |
| | |
| JEA Figure 1. Annual Customer Growth Rate by Customer Class | 83 |
| JEA Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts | 85 |
| JEA Figure 3. Seasonal Reserve Margin (With LM/INT)..... | 86 |
| JEA Figure 4. Seasonal Reserve Margin (Without LM/INT)..... | 87 |
| JEA Figure 5. Net Energy for Load by Fuel Type..... | 87 |
| | |
| LAK Figure 1. Annual Customer Growth Rate by Customer Class | 89 |
| LAK Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts | 91 |
| LAK Figure 3. Seasonal Reserve Margin..... | 92 |
| LAK Figure 4. Net Energy for Load by Fuel Type | 93 |
| | |
| OUC Figure 1. Annual Customer Growth Rate by Customer Class..... | 94 |
| OUC Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts..... | 96 |
| OUC Figure 3. Seasonal Reserve Margin..... | 97 |
| OUC Figure 4. Net Energy for Load by Fuel Type | 98 |
| | |
| SEC Figure 1. Annual Customer Growth Rate by Customer Class..... | 99 |
| SEC Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts..... | 101 |
| SEC Figure 3. Seasonal Reserve Margin (With LM/INT)..... | 102 |
| SEC Figure 4. Seasonal Reserve Margin (Without LM/INT) | 103 |
| SEC Figure 5. Net Energy for Load by Fuel Type | 104 |
| | |
| TAL Figure 1. Annual Customer Growth Rate by Customer Class | 105 |
| TAL Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts | 107 |
| TAL Figure 3. Seasonal Reserve Margin (With LM/INT) | 108 |
| TAL Figure 4. Seasonal Reserve Margin (Without LM/INT)..... | 109 |
| TAL Figure 5. Net Energy for Load by Fuel Type..... | 109 |

LIST OF TABLES

Statewide Perspective

| | |
|---|----|
| Table 1. TYSP Utilities: Preliminary Estimates of EPA Rule Compliance Cost..... | 5 |
| Table 2. State of Florida: Proposed Generating Units Without PPSA Certification..... | 6 |
| Table 3. State of Florida: Proposed Transmission Without TLSA Certification..... | 6 |
| Table 4. State of Florida: Customer Numbers and Energy Usage (2011 Actual)..... | 12 |
| Table 5. TYSP Utilities: Historical Accuracy of Net Energy for Load Forecasts..... | 19 |
| Table 6. State of Florida: Market Outlook for Renewable Energy..... | 27 |
| Table 7. State of Florida: Existing Renewable Generation Capacity..... | 28 |
| Table 8. State of Florida: Firm Renewable Resources..... | 29 |
| Table 9. State of Florida: Non-Firm Renewable Resources..... | 30 |
| Table 10. State of Florida: Utility Owned Renewable Generation..... | 31 |
| Table 11. State of Florida: Customer Owned Renewable Generation..... | 32 |
| Table 12. State of Florida: Planned Renewable Resource Net Additions..... | 32 |
| Table 13. State of Florida: Planned Firm Renewable Resources..... | 33 |
| Table 14. State of Florida: Planned Non-Firm Renewable Resources..... | 34 |
| Table 15. State of Florida: Potential Steam Units for Modernization..... | 40 |
| Table 16. TYSP Utilities: Preliminary Estimates of EPA Rule Compliance Cost..... | 41 |
| Table 17. TYSP Utilities: Preliminary Estimates of EPA Rule Compliance Costs by Unit..... | 42 |
| Table 18. State of Florida: Projected Units Requiring Power Plant Siting Act Certification..... | 43 |
| Table 19. State of Florida: Projected Nuclear Uprates & New Units..... | 43 |
| Table 20. State of Florida: Projected New Combustion Turbines..... | 44 |
| Table 21. State of Florida: Projected New Combined Cycle Units..... | 44 |
| Table 22. State of Florida: Proposed Transmission Requiring Transmission Line Siting Act Certification..... | 45 |

Individual Utility Tables

| | |
|---|-----|
| FPL Table 1. Planned Generation Additions..... | 52 |
| PEF Table 1. Planned Generation Additions..... | 60 |
| TECO Table 1. Planned Generation Additions..... | 66 |
| OUC Table 1. Planned Generation Additions..... | 98 |
| SEC Table 1. Planned Generation Additions..... | 104 |

LIST OF TEN-YEAR SITE PLAN UTILITIES

Investor-Owned Electric Utilities

| | |
|------|-------------------------|
| FPL | Florida Power & Light |
| PEF | Progress Energy Florida |
| TECO | Tampa Electric Company |
| GULF | Gulf Power Company |

Municipal Electric Utilities & Rural Electric Cooperatives

| | |
|------|--|
| FMPA | Florida Municipal Power Agency |
| GRU | Gainesville Regional Utilities |
| JEA | JEA (formerly Jacksonville Electric Authority) |
| LAK | Lakeland Electric |
| OUC | Orlando Utilities Commission |
| SEC | Seminole Electric Cooperative |
| TAL | City of Tallahassee |

LIST OF ACRONYMS

| | |
|--------|---|
| AB | Agricultural Byproducts (Biomass) |
| CC | Combined Cycle |
| CR3 | Crystal River 3 Nuclear Unit |
| CT | Combustion Turbine |
| DACS | Department of Agriculture and Consumer Services |
| DEP | Department of Environmental Protection |
| DOE | Department of Energy |
| EIA | Energy Information Agency |
| EPA | Environmental Protection Agency |
| F.A.C. | Florida Administrative Code |
| F.S. | Florida Statutes |
| FEECA | Florida Energy Efficiency & Conservation Act |
| FERC | Federal Energy Regulatory Commission |
| FRCC | Florida Reliability Coordinating Council |
| INT | Interruptible Load |
| IOU | Investor-Owned Utility |
| IPP | Independent Power Producer |
| LFG | Landfill Gas |
| LM | Load Management |
| MMBtu | Million British Thermal Units |
| MSW | Municipal Solid Waste |
| MW | Megawatts |
| MWh | Megawatt-hours |
| NEL | Net Energy for Load |
| NUG | Non-Utility Generators |
| NUG | Non-Utility Generator |
| OBG | Other Biogas (Biomass) |
| PPSA | Power Plant Siting Act |
| QF | Qualifying Facilities |
| REC | Renewable Energy Credits |
| RFP | Request for Proposals |
| RPS | Renewable Portfolio Standard |
| SUN | Solar |
| TLSA | Transmission Line Siting Act |
| TYSP | Ten-Year Site Plan |
| WAT | Hydro / Water |
| WDS | Wood Waste Solids (Biomass) |
| WH | Waste Heat |

EXECUTIVE SUMMARY

Pursuant to Section 186.801(1), Florida Statutes (F.S.), each generating electric utility must submit to the Florida Public Service Commission (Commission) a Ten-Year Site Plan (TYSP or Plan) which estimates the utility's power generating needs and the general locations of its proposed power plant sites over a ten-year planning horizon. The Commission is required to perform a preliminary study of each plan and classify each one as either "suitable" or "unsuitable." This document represents the study of the 2012 Ten-Year Site Plans for Florida's electric utilities. All findings of the Commission are made available to the Florida Department of Environmental Protection (DEP) for its consideration at any subsequent electrical power plant site certification proceedings pursuant to the Power Plant Siting Act (PPSA)¹. In addition, this document is forwarded to the Department of Agriculture and Consumer Services (DACS) pursuant to Section 377.703(2)(e), F.S., which requires the Commission to provide a report on electricity and natural gas forecasts. A copy of this report is also posted on the Commission's website and is available to the public.

The Commission has reviewed the Ten-Year Site Plans filed by the eleven reporting utilities, as well as supplemental data provided through data requests, and finds that the projections of load growth appear reasonable.² The reporting utilities have identified sufficient additional generation facilities to maintain an adequate supply of electricity at a reasonable cost. Therefore, the Commission finds the 2012 Ten-Year Site Plans filed by the reporting utilities, augmented with supplemental data provided, to be suitable for planning purposes.

Since the TYSP is not a binding plan of action for electric utilities, the Commission's classification of these Plans as suitable or unsuitable does not constitute a finding or determination in docketed matters before the Commission. The Commission may address any concerns raised by a utility's TYSP at a public hearing.

Growth in Demand and Capacity

Customer growth remained positive in the last year, and is anticipated to continue at a somewhat slower pace than projected last year, but still below historic levels. Between 2012 and 2021, the annual average growth rate for residential customers is projected at 1.26 percent, slightly below last year's projection of 1.37 percent for 2011 through 2020, and down significantly from the 2.36 percent rate seen for the period 2002 through 2007. In contrast, commercial and industrial customers show a slightly increased rate of growth, but also remain below historic levels.

Generating capacity within the State of Florida is anticipated to grow to meet the increase in customer demand, with approximately 7,200 megawatts (MW) of new generation added over the planning horizon. This figure represents a decrease from last year's TYSPs, which estimated

¹ The Power Plant Siting Act is Sections 403.501 through 403.518, Florida Statutes

² Investor-owned utilities (IOUs) filing 2012 Ten-Year Site Plans include Florida Power & Light Company (FPL) Progress Energy Florida, Inc. (PEF), Tampa Electric Company (TECO), and Gulf Power Company (Gulf). Municipal utilities filing 2012 Ten-Year Site Plans include Florida Municipal Power Agency (FMPA), Orlando Utilities Commission (OUC), City of Lakeland (LAK), City of Tallahassee (TAL), JEA (formerly Jacksonville Electric Authority), and Gainesville Regional Utilities (GRU). Seminole Electric Cooperative (SEC) also filed a 2012 Ten-Year Site Plan.

the need for about 10,300 MW new generation. This reduction in the estimated need for new capacity is primarily due to several units being constructed in 2012, and others being delayed beyond the ten year period due to slightly lower load forecasts. The 2012 Plans include retirements and uprates of existing units, along with new generating units to be added during the ten-year period. As in previous planning cycles, natural gas-fired generating units make up a majority of the generation additions and now represent a majority of energy produced within the state.

All TYSPs are subject to modification due to factors such as changes to fuel price forecast, energy demand forecasts, shifts in energy policy, or other factors. A notable change to the 2012 TYSPs is PEF's delay of the Levy 1 nuclear unit, which was originally planned to start commercial service in June 2021, but has been delayed until June 2024. PEF is anticipated to update their 2013 TYSP to reflect this change in projected installed capacity. While the delay is a significant impact on PEF's reserve margin in 2021, the statewide reserve margin is projected to be adequate to provide reliable service with the planned delay of the Levy nuclear units.

Demand-Side Management

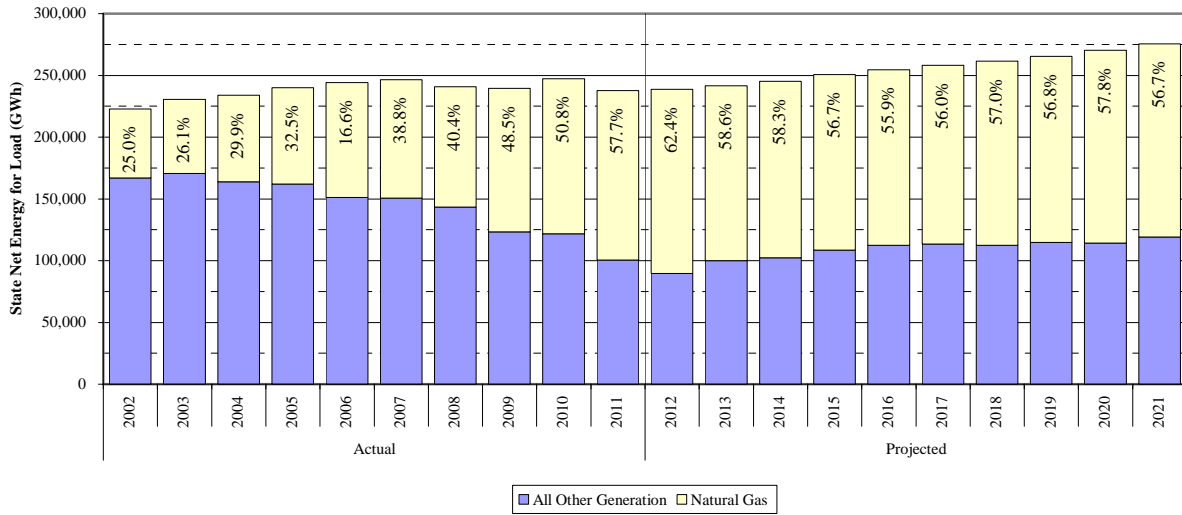
The first step in any resource planning process is to focus on the efficient use of electricity by consumers. Government mandates, such as building codes and appliance efficiency standards, provide the starting point for increasing energy efficiency. Customer choice is the next step in reducing the state's dependence upon expensive fuels and lowering greenhouse gas emissions. Consequently, educating consumers to make smart energy choices is particularly important. Finally, Florida's utilities can efficiently serve their customers by offering demand-side management (DSM) and conservation programs designed to use fewer resources at lower cost.

Florida's utilities project considerable demand and energy savings over the planning period, with conservation and load management programs by 2021 reducing the system's total seasonal peak demand by over 9,000 MW, or 15 percent for summer and winter, and reducing annual energy consumption by over 15,000 GWh or 5 percent.

Fuel Diversity

Natural gas is anticipated to remain the dominant fuel over the planning horizon, with usage in 2011 increasing to 57.7 percent of the state's net energy for load (NEL), up from 50.8 percent of NEL in 2010. Figure 1 below illustrates the increase in the role of natural gas in the state's electricity production during the last ten years, and the projected use during the next decade. Based on the Florida Reliability Coordinating Council (FRCC) 2012 Load and Resource Plan, state-wide natural gas usage is expected to peak in 2012, and then slowly decline throughout the planning period, to 56.7 percent in 2021.

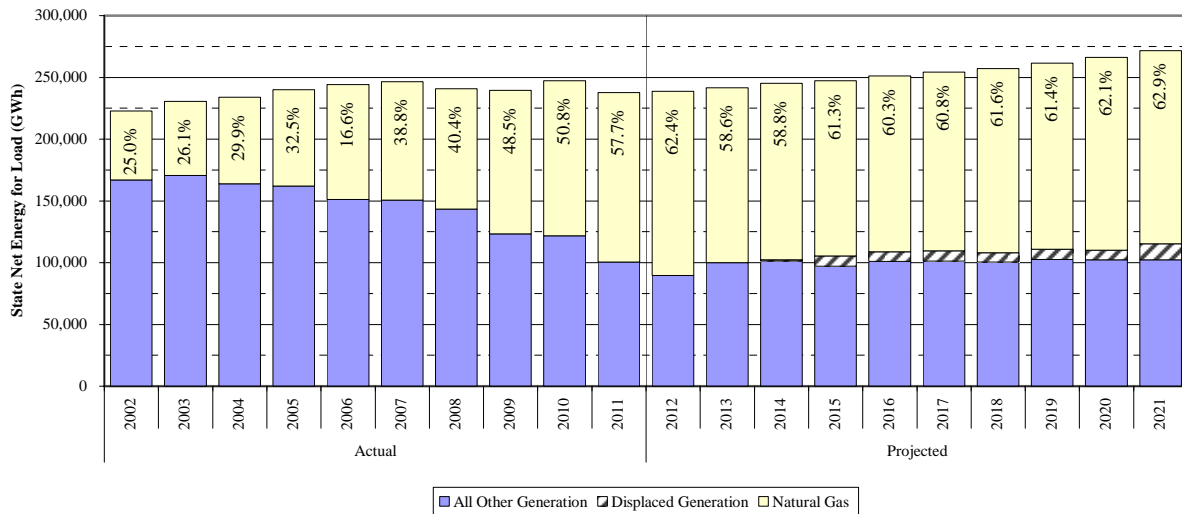
Figure 1. State of Florida: Natural Gas Usage (Total & Percent NEL)



Source: FRCC 2004 - 2012 Load and Resource Plans

While natural gas usage is projected to remain relatively level over the planning period, this situation is due to projected increases in nuclear generation, and a limited impact of new environmental compliance requirements. The FRCC 2012 Load and Resource Plan includes the addition of the Levy 1 nuclear unit in 2021, which has since been delayed until 2024. Also, this projection assumes the return to service in November 2014 of PEF’s Crystal River 3 nuclear unit (CR3). However, no decision has been made regarding the repair or retirement of CR3. Furthermore, as discussed at the 2012 TYSP Workshop, PEF’s Crystal River 1 & 2 coal units, along with GULF’s Lansing Smith 1 & 2 coal units, may face challenges in economically meeting new environmental compliance requirements. If the facilities are unable to install sufficient emissions controls, they would face retirement as early as 2015. If the projected generation associated with these nuclear and coal units is displaced by natural gas, it would have the net effect of increasing natural gas’ share of state electric generation to 62.9 percent by 2021, as shown in Figure 2 below.

Figure 2. State of Florida: Natural Gas Usage With Displaced Generation (Total & Percent NEL)



Source: FRCC 2004 - 2012 Load and Resource Plans, PEF 2012 TYSP, Responses to Staff Data Requests.

In an attempt to reduce natural gas consumption, Florida’s utilities have encouraged other energy resources, including renewable energy and nuclear generation. Approximately 1,421 MW of renewable generation is currently operating in Florida, an increase of about 138 MW from the previous year. Presently, municipal solid waste (MSW) and biomass each represent roughly a third of renewable generation in Florida. Other major types of renewable generation operating in the state include waste heat, hydroelectric, landfill gas, and solar.

Over the planning horizon, approximately 957 MW of additional renewable generation is planned in Florida, an increase of 51 MW from last year. The majority of these additions are solar and biomass. While these new projects represent a significant increase from the existing total, renewable generation continues to provide a relatively small contribution towards the reduction of our state’s reliance on fossil fuels.

While no new nuclear units are projected until 2022, uprates for all five existing nuclear units have been approved by the Commission, representing an increase of approximately 600 MW. Extended outages associated with unit uprates and other major maintenance work has reduced nuclear generation, and is projected to reduce nuclear’s contribution to annual energy in the near future. One of the nuclear units, CR3, has been offline since 2009 due to a delamination of the concrete containment structure discovered during a steam generator replacement project. The unit, including the 154 MW of uprated capacity, is currently scheduled to return to service in the end of 2014. Currently four new nuclear units, Turkey Point 6 & 7, and Levy 1 & 2, totaling over 4,000 MW generation are planned outside of the ten-year horizon.

New and Proposed EPA Rules

Florida’s electric utilities must also consider environmental concerns regarding existing and planned generation to meet Florida’s electric needs. The Environmental Protection Agency

(EPA) has finalized or proposed several new rules in the last year that will have an impact on Florida’s existing generation fleet, as well as on its proposed new facilities.

The new or proposed EPA rules limit emissions from existing power plants on a variety of pollutants, including mercury, other heavy metals, organic toxics, particulates, sulfur oxides, and nitrogen oxides. While many facilities within the state already have sufficient emissions control technologies to address these rules, some will require installation of new equipment to bring emissions into compliance. Other rules address concerns relating to cooling water’s impact on aquatic life, and the disposal of coal ash. All of these activities will require investment and potential for extended outages of the relevant generating units, which will require careful planning to allow for a minimum impact on system reliability.

At this time, a final estimate of costs and units affected is not available, as some of the proposed rules are not yet final. Several of the TYSP utilities have provided preliminary estimates based upon known and proposed rule language, and are shown in Table 1 below.

Table 1. TYSP Utilities: Preliminary Estimates of EPA Rule Compliance Cost

| Utility | Preliminary Total Cost Estimates* |
|--|--------------------------------------|
| | (\$ Millions) |
| Florida Power & Light | \$348 - \$1,741 |
| Progress Energy Florida | \$165 - \$1,330 |
| Tampa Electric Company | \$763 |
| Gulf Power Company | \$1,270 - \$2,737 |
| Florida Municipal Power Agency | \$39 |
| Gainesville Regional Utilities | Not Available |
| JEA | Not Available |
| Lakeland Electric | Not Available |
| Orlando Utilities Commission | \$157 |
| Seminole Electric Cooperative | Not Available |
| City of Tallahassee | \$5 |
| Total of All Utilities | \$2,747 - \$6,772 |
| * These estimates are not final, and may not include all rules. Source: Responses to Staff’s Data Requests. | |

New Generation Facilities

The State of Florida has a total summer generating capacity of 56,973 MW installed as of January 1, 2012. A total of 7,200 MW of new generation units are planned in the ten-year period, all of which will be natural gas-fired units. Other impacts noted in the report reflect changes to existing units and/or purchased power agreements.

As noted previously, the primary purpose of this review of the utilities’ TYSPs is to provide information regarding new electric power plants to the DEP for its use in the certification process. Table 2 displays those generation facilities included in the 2012 TYSPs that have not yet received a certification under the PPSA by the Commission. Certification is generally anticipated at four years in advance of the in-service date for a natural gas-fired combined cycle unit. TECO has recently filed a Request for Proposals (RFP) for their

conversion to combined cycle configuration of their existing Polk Power Station units 2 through 5, and filed a petition for a determination of need on September 12, 2012.

Table 2. State of Florida: Proposed Generating Units Without PPSA Certification

| Utility | Generating Unit Name | Unit Type | Fuel Type | Summer Capacity (MW) | In-Service Date |
|---------|----------------------|-----------|-----------|----------------------|-----------------|
| TECO | Polk 2-5 CC | CC | NG | 1,063 | Jan 2017 |
| PEF | Unknown | CC | NG | 767 | Jun 2019 |
| SEC | Unnamed CC1 | CC | NG | 196 | Dec 2020 |
| SEC | Unnamed CC2 | CC | NG | 196 | Dec 2020 |
| SEC | Unnamed CC3 | CC | NG | 196 | Dec 2021 |

Source: Utilities 2012 TYSP

In addition to generating units, transmission lines that will require the Commission’s certification under the Transmission Line Siting Act (TLSA) are projected during the planning period. Table 3 below details the only TLSA project included in the utility’s plans, which is associated with TECO’s combined cycle conversion at the Polk Power Station.

Table 3. State of Florida: Proposed Transmission Without TLSA Certification

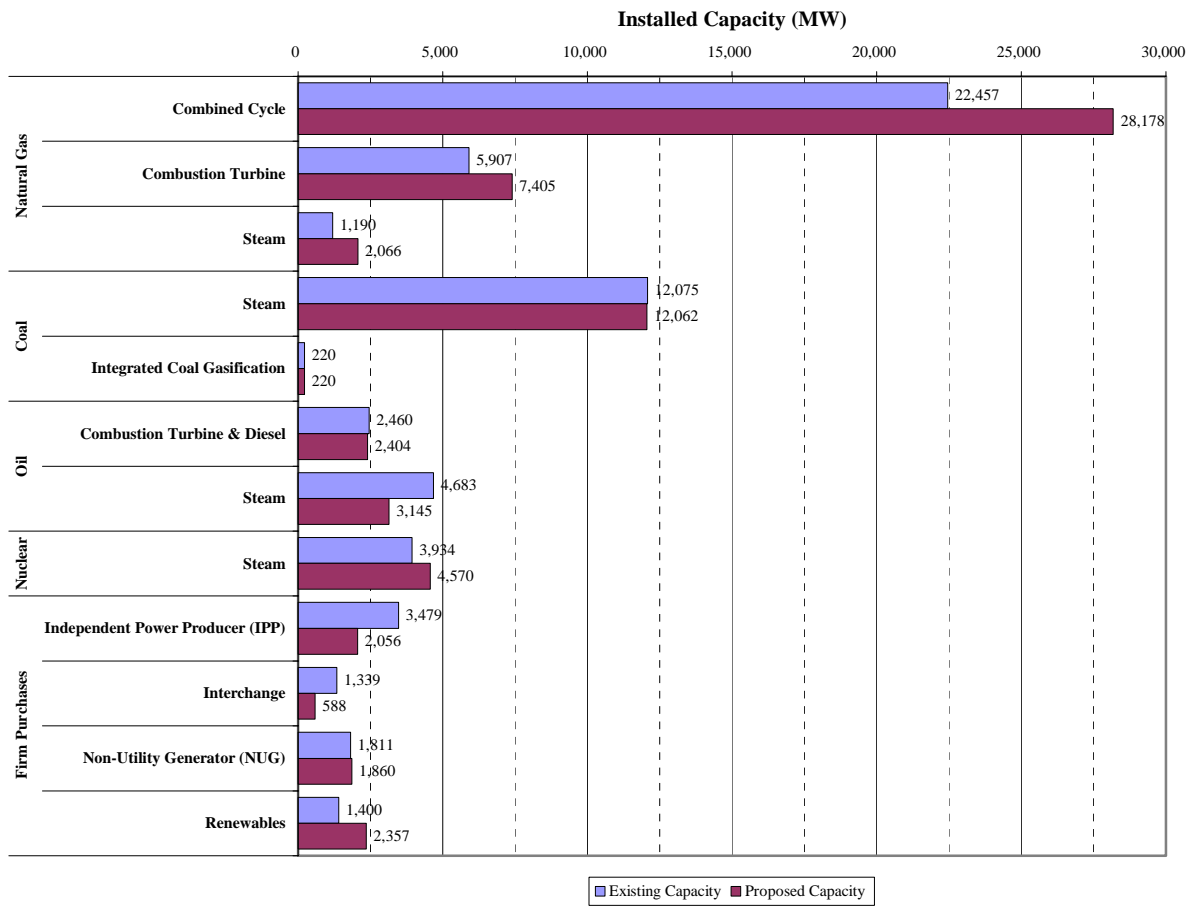
| Utility | Transmission Line | Line Length (Miles) | Nominal Voltage (kV) | Commercial In-Service Date |
|---------|---------------------|---------------------|----------------------|----------------------------|
| TECO | Polk-Aspen-FishHawk | 62.5 | 230 | 2017 |

Source: Utilities 2012 TYSP

Summary of the State of Florida

Figure 3 below illustrates the present and future aggregate capacity mix. The capacity values in Figure 3 incorporate all proposed additions, changes, and retirements contained in the reporting utilities’ 2012 Ten-Year Site Plans.

Figure 3. State of Florida: Existing and Projected Capacity



Source: FRCC 2012 Load and Resource Plan, Responses to Staff Data Requests

INTRODUCTION

The Ten-Year Site Plans of Florida's electric utilities are designed to give state, regional, and local agencies advance notice of proposed power plants and transmission facilities. The Commission receives comments from these agencies regarding any issues with which they may have concerns. Because the TYSPs are considered to be planning documents and can contain tentative data, they may not necessarily contain sufficient information to allow regional planning councils, water management districts, and other reviewing agencies to evaluate site-specific issues within their respective jurisdictions. Each utility is responsible for providing detailed information based on individual assessments during certification proceedings under the Power Plant Siting Act (PPSA), Sections 403.501-403.518, F.S., or the Transmission Line Siting Act (TLSA), Sections 403.52-403.5365, F.S. In addition, other regulatory processes may require utilities to provide additional information as needed.

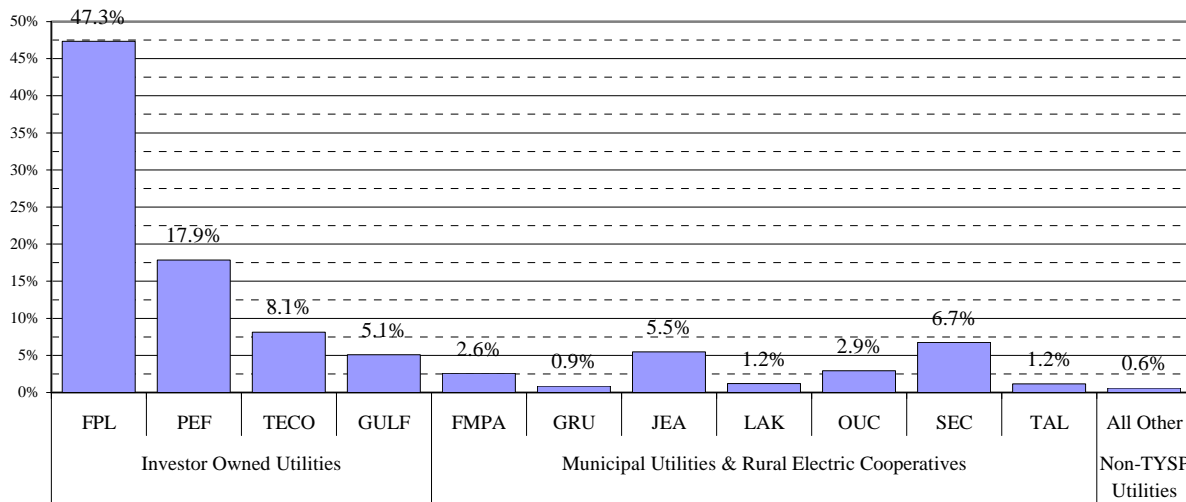
Statutory Authority

Section 186.801, F.S., requires that all major generating electric utilities submit a TYSP to the Commission for annual review. Section 377.703(2)(e), F.S., requires the Commission to analyze these plans and provide natural gas and electricity forecasts to the Department of Agriculture and Consumer Services (DACCS). The Commission has adopted Rules 25-22.070 through 25-22.072, Florida Administrative Code (F.A.C.) in order to fulfill these statutory requirements.

Florida is served by 58 electric utilities, including 5 investor-owned utilities (IOUs), 35 municipal utilities, and 18 rural electric cooperatives. Only generating electric utilities with an existing capacity above 250 megawatts or a planned unit with a capacity of 75 MW or greater are required to file with the Commission a TYSP, at least once every two years. In 2012, eleven utilities filed TYSPs, including 4 IOUs, 6 municipal utilities, and 1 rural electric cooperative.

Figure 4 below illustrates each TYSP utility's representative share of the state's net energy for load for 2011. In total, the investor-owned TYSP utilities represent 78 percent of net energy for load, with the remaining TYSP utilities contributing 21 percent. Those utilities which are not required to file a TYSP make up the remaining 1 percent.

Figure 4. State of Florida: Percent State Net Energy for Load by Electric Utility (2011 Actual)



Source: FRCC 2012 Load & Resource Plan, Utilities 2012 TYSPs

As outlined in the Commission’s rules, each utility’s TYSP contains projections of the utility’s electric power needs, fuel requirements, and general location of proposed power plant sites and major transmission facilities. The utilities provide historic and projected information on existing generating capacity, customer base and energy usage, impact of demand-side management, fuel consumption, fuel diversity, anticipated reserve margin, and proposed new generating units and transmission.

In accordance with Section 186.801, F.S., the Commission performs a preliminary study of each TYSP and makes a determination as to whether it is suitable or unsuitable. This determination is non-binding, and is made in recognition that the information provided is tentative, and is subject to change by the utility upon written notice. The results of the Commission’s study are contained in this report, Review of the 2012 Ten-Year Site Plans, and are forwarded to the DEP for use in subsequent power plant siting proceedings.

Information Sources for the Report

Contained in each utility’s TYSP is a series of required tables which provide detailed information on a number of items. This information, supplemented by additional data requests, provides the basis of the Commission’s review.

The Florida Reliability Coordinating Council (FRCC) is also an important source of information for the Commission’s review. Each year, the FRCC publishes its Regional Load and Resource Plan which contains aggregate data on demand and energy, capacity and reserves, and proposed new generating units and transmission line additions, both for Peninsular Florida and for the state as a whole. In addition to its *2012 Regional Load and Resource Plan*, the Commission used the FRCC’s *2012 Reliability Assessment* as a resource in the production of this review. The Commission held a public workshop on August 13, 2012, to facilitate discussion of

the annual planning process and the Regional Load & Resource Plan and to allow for public comments on the TYSPs that were filed with the Commission.

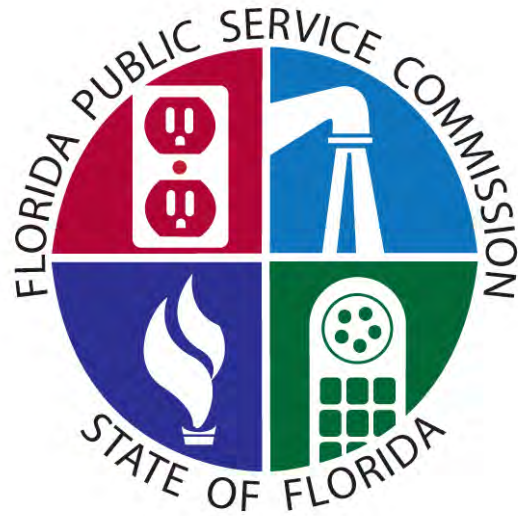
Structure of the Report

This report is divided into multiple sections. The Statewide perspective provides a look at the impact of all planned unit additions to the State as a whole, and is intended as a resource for those seeking understanding of Florida's energy systems. Individual utility reports focus on the issues facing each electric utility and its unique situation. Lastly, Appendix A contains comments received from various review agencies, local governments, and others that have been collected and included in this report.

Conclusions

As discussed in each of the individual utility's reviews, the Commission's review of the eleven reporting utilities' 2012 TYSPs finds them all suitable for planning purposes. Through the review process, the Commission has determined that the projections of load growth appear reasonable, and that reporting utilities have identified sufficient additional generation facilities to maintain an adequate supply of electricity at a reasonable cost.

Since the TYSP is not a binding plan of action for electric utilities, the Commission's classification of these Plans as suitable or unsuitable does not constitute a finding or determination in any docketed matters before the Commission. The Commission may address any concerns raised by a utility's TYSP at a public hearing.



Statewide Perspective

FLORIDA’S ELECTRICITY FORECAST

Forecasting load growth is the first component of system planning for Florida’s electric utilities. In order to maintain a reliable system, utilities must stay abreast of changes in customer base as well as trends in demand and energy consumption. Utilities perform load and energy forecasts to estimate the amount and timing of future capacity needs.

Historical data forms the foundation for utility load and energy forecasts. These sets of data include energy usage patterns, trends in population growth, economic variables, and weather data for each utility’s service territory. Econometric forecast models are then used to quantify the historical impact of population growth, economic conditions, and weather on energy usage patterns.

Finally, sets of forecast assumptions on future population growth, economic conditions, and weather are assembled and together with the forecast models, yield the final demand and energy forecasts. Each utility’s peak demand and energy forecasts serve as a starting point for determining if and when new capacity additions are needed to reliably and efficiently serve the anticipated load.

Customer Growth Projections

The most basic starting point in the utility’s forecast modeling is the projected number and type of electric customers. Florida is dominated by the residential class, which makes up a majority in both number of customers and energy sales, as shown in Table 4 below. As a result, Florida’s electrical demands and energy requirements heavily focus on residential use patterns. While commercial and industrial customers may be lower in number, they typically consume far more per customer, and combined represent the other half of energy consumed in Florida. Compared to last year, Florida experienced a slight growth in the number of customers, but an overall decline in energy consumption.

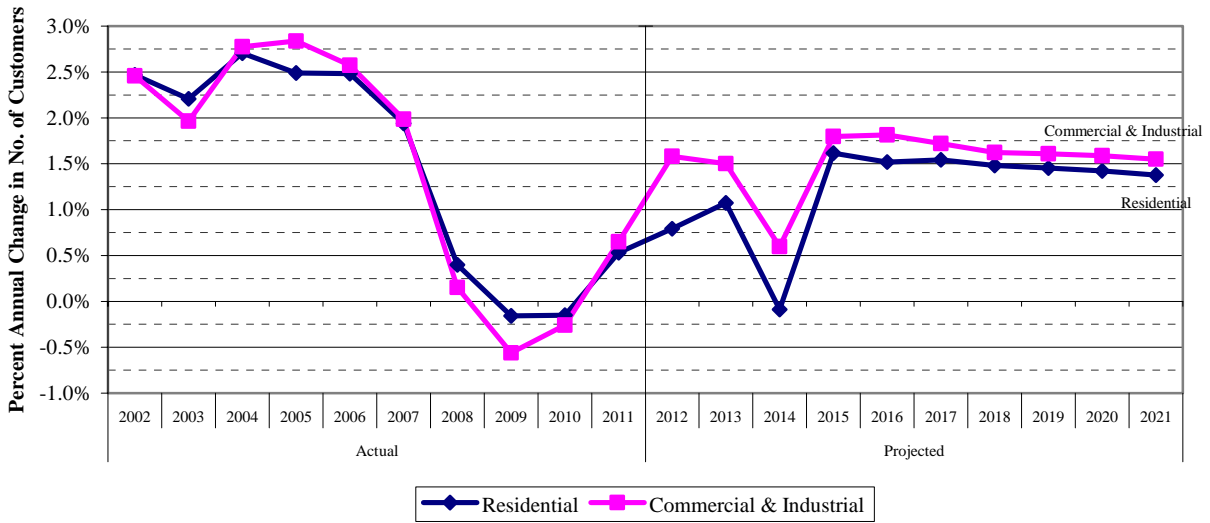
Table 4. State of Florida: Customer Numbers and Energy Usage (2011 Actual)

| Customer Class | Number of Customers | % of Customers | Energy Sales (GWh) | % of Sales |
|----------------|---------------------|----------------|--------------------|------------|
| Residential | 8,369,607 | 88.71% | 113,554 | 52.97% |
| Commercial | 1,037,584 | 11.00% | 80,284 | 37.45% |
| Industrial | 27,202 | 0.29% | 20,556 | 9.59% |
| Total | 9,434,393 | | 214,394 | |

Source: FRCC 2012 Load & Resource Plan

Florida’s annual customer growth rate in 2011 was positive but significantly below historic norms for all customer classes, and is not anticipated to return to its previous rate during the planning period. Figure 5 shows the actual annual growth rate between 2002 and 2011, and the projected customer growth between 2012 and 2021. The historic data clearly shows the decline from high annual customer growth, resulting in significantly lower or even negative customer growth.

Figure 5. State of Florida: Annual Customer Growth Rate by Customer Class

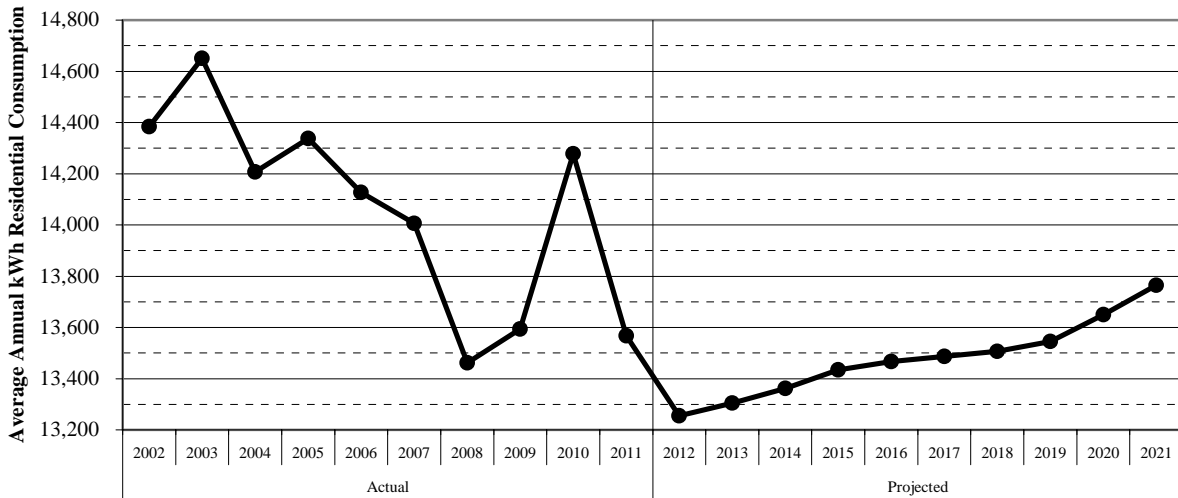


Source: FRCC 2012 Load & Resource Plan

Customer growth is projected to increase and remain higher throughout the planning period, with the exception of 2014. In 2014, both FMPA and SEC note that several member utilities are anticipated to change their service agreements, including the City of Lake Worth (which would leave FMPA’s All Requirements Power Supply Project) and Lee County Electric Cooperative (which would no longer be served by SEC), resulting in the declining customer growth seen above in Figure 5.

Florida’s energy requirements are heavily dependent on the energy consumption behaviors of residential customers. This relationship is a result of the fact that close to 90 percent of electric customers in Florida are residential accounts, with these customers purchasing more than half the energy sold in the state in 2011. Figure 6 shows the actual per-customer consumption from 2002 through 2011, as well as the projection for the period 2012 through 2021. Actual usage has generally decreased, excluding a spike in 2010 that is attributed to extreme winter weather. Per-customer residential sales are expected to decline in 2012, but then slowly rebound throughout the planning period.

Figure 6. State of Florida: Average Annual Residential Customer Energy Consumption



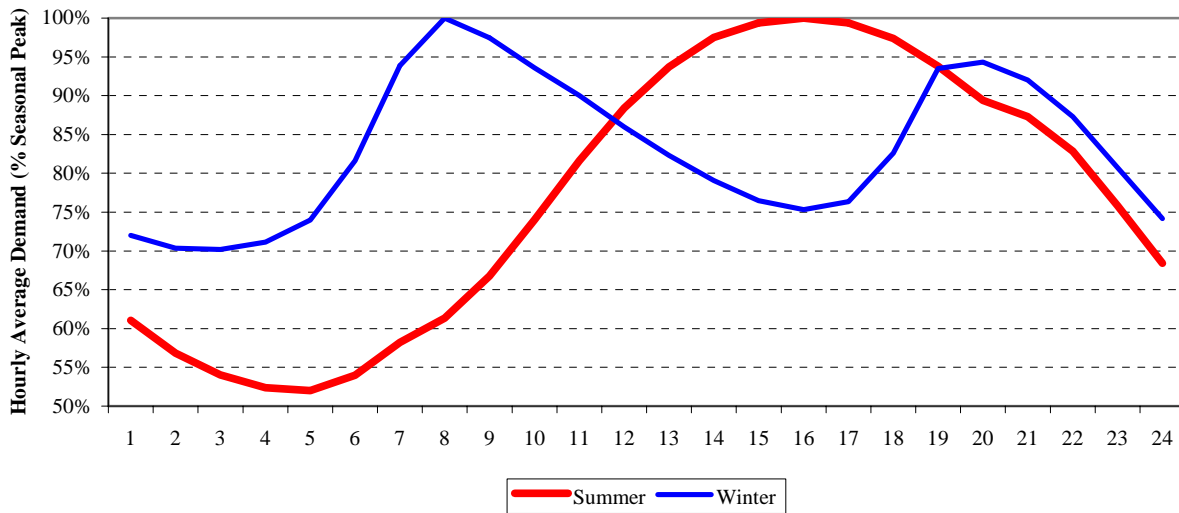
Source: FRCC 2012 Load & Resource Plan

Seasonal Peak Demand Forecast

Since there exists no economically feasible means to store electricity at the grid-scale, electric utilities must supply electricity near instantaneously to the time of its consumption. For a majority of the time, system demand is significantly less than the daily peak. However, system peak demand determines the timing of new generation needs, and is driven by seasonal weather patterns. With a growing customer base dominated by residential customers, both the rate of growth and usage patterns are important considerations in planning sufficient future generation to meet the state’s projected customer load.

Figure 7 illustrates typical daily load curves for each season, which shows evidence of the influence of residential customers. In summer, air-conditioning demand causes a steady climb in the morning and a peak in early evening, before declining into the evening. In contrast, winter’s demand curve is dominated by electric heating and water heating, causing a rapid peak in mid-morning and a second peak in the late evening.

Figure 7. TYSP Utilities: Example Daily Load Curve



Source: Responses to Staff Data Request (2011)

Florida is typically a summer-peaking state, meaning that the summer peak demand generally controls the amount of generation required. While winter peak demands tend to be greater than summer, the higher peak is offset by the increased winter rating of power plants, which can take advantage of lower ambient air and water temperatures to produce more electricity from the same generating unit. During summer peak demand, higher temperatures instead can decrease generation, as high water temperatures may reduce not only the quality, but quantity of cooling water available based on environmental permits.

As with daily load, there is a great variation in seasonal peak load. Generally speaking, Florida's summer season is significantly longer than its winter. The periods between the seasonal peaks are referred to as "shoulder months," and utilities take advantage of these periods of relatively low demand to perform maintenance without impacting their ability to meet the daily peak demand.

In general, a major controlling factor to seasonal peak demand is short-term weather conditions. While utilities forecast annual peak demand based upon historic factors, customer counts, and normalized weather patterns, utilities also continuously monitor weather conditions in their service territory and prepare for any increases (or decreases) in customer demand. By close monitoring of the weather situation, utilities can fine tune maintenance schedules to ensure the highest unit availability during time of the utility's peak demand.

Demand Side Management

The first step in any resource planning process is to focus on the efficient use of electricity by consumers. Government mandates, such as building codes and appliance efficiency standards, provide the starting point for increasing energy efficiency. Customer choice is the next step in reducing the state's dependence upon expensive fuels and lowering greenhouse gas emissions. Consequently, educating consumers to make smart energy choices is

particularly important. Finally, Florida's utilities can efficiently serve their customers by offering DSM and conservation programs designed to use fewer resources at lower cost.

The Florida Legislature directed the Commission to encourage utilities to decrease the growth in seasonal peak demand and energy consumption in Sections 366.80 through 366.85 and Section 403.519, F.S., known as the Florida Energy Efficiency and Conservation Act (FEECA). Under FEECA, the Commission is required to set goals for demand and energy reduction for 7 electric utilities, namely the 5 investor-owned electric utilities (4 of which file TYSPs, the exception being Florida Public Utility Company, which is a non-generating utility) and 2 municipal electric utilities (JEA and OUC). These utilities represent 87 percent of sales in Florida.

DSM Programs generally fall into three categories: interruptible/curtailable load (INT), load management (LM), and conservation. The first two are generally considered dispatchable, meaning that the utility can call upon them during a period of peak demand, but otherwise they are not in active use. In contrast, conservation measures are considered passive and are always working to reduce customer demand.

Interruptible or curtailable load is achieved through the use of agreements with large customers to allow the utility to interrupt selected portions of the customer's load during periods of peak demand. Interrupted or curtailed customers could make up for this generation by reducing their own industrial processes or by activating back-up generation. In exchange for the ability to reduce their electrical load, the utility usually offers such customers a discounted rate for energy or other credits which are paid for by all customers.

Load management programs involve the installation of a device that can interrupt a customer's appliance(s) for a short duration during a period of peak demand. These interruptions tend to have less notice than those provided to interruptible customers, and generally do not fully disconnect customers, but interrupt an individual appliance. Normally, interruptions are kept to short periods and are cycled between groups of customers. Due to the nature of the program, certain devices would be more appropriate to handle different seasonal demands. For example, air conditioning units would be interrupted to reduce a summer peak, while water heaters being interrupted may contribute more towards reducing a winter peak. As of 2012, over 7,165 MW of interruptible load and load management is available for summer peak, and is anticipated to expand to 9,219 MW by 2021.

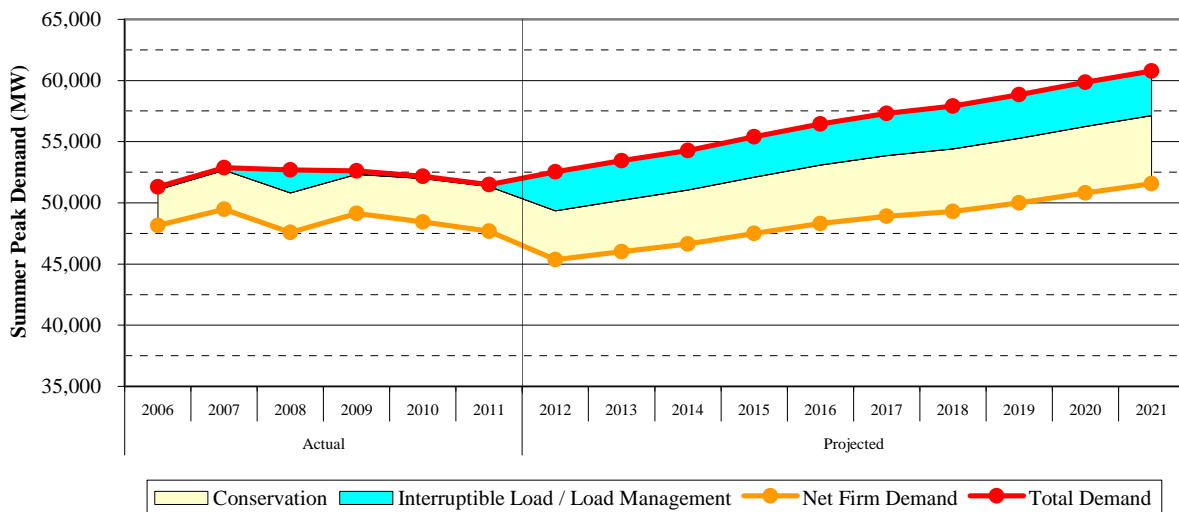
In addition to active measures, customer-based conservation measures can have an impact on peak demand without requiring activation by the utility. These passive conservation measures typically involve improving a home or business' building envelope, such as greater insulation and energy-efficient windows, or installing more efficient appliances. These energy efficiency improvements decrease the customer's load at all times without requiring an interruption or reduction in service, and also have an impact on annual energy consumption.

The seven FEECA utilities currently offer DSM programs to residential, commercial, and industrial programs. Energy audit programs provide a first step for utilities and customers to evaluate conservation opportunities and serve as the foundation for other programs.

Projected Peak Demands

Figure 8 below shows the historic and projected total summer peak demand, as well as demand side management impacts and the resulting net firm demand experienced by the utilities. While summer peak demand has been relatively steady in the past few years, demand is anticipated to increase steadily throughout the planning period. Interruptible load and load management programs have not been fully implemented in past years, with the primary impact shown below in 2008. When planning for future load, the electric utilities use net firm seasonal demand.

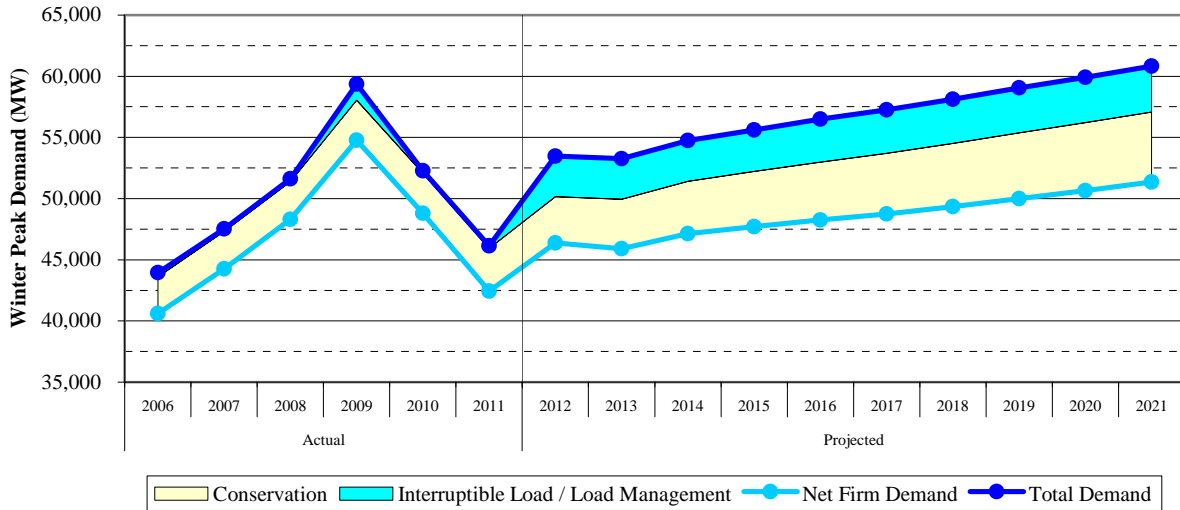
Figure 8. State of Florida: Historic & Projected Summer Peak Demand (With DSM Impacts)



Source: FRCC 2008 - 2012 Load and Resource Plans

Figure 9 below shows the historic and projected total winter peak demand, as well as DSM impacts and the resulting net firm demand experienced by the utilities. As with summer peak demand, demand response resources have not historically been fully utilized, as shown by the small reduction in the actual firm demand.

Figure 9. State of Florida: Historic & Projected Winter Peak Demand (With DSM Impacts)

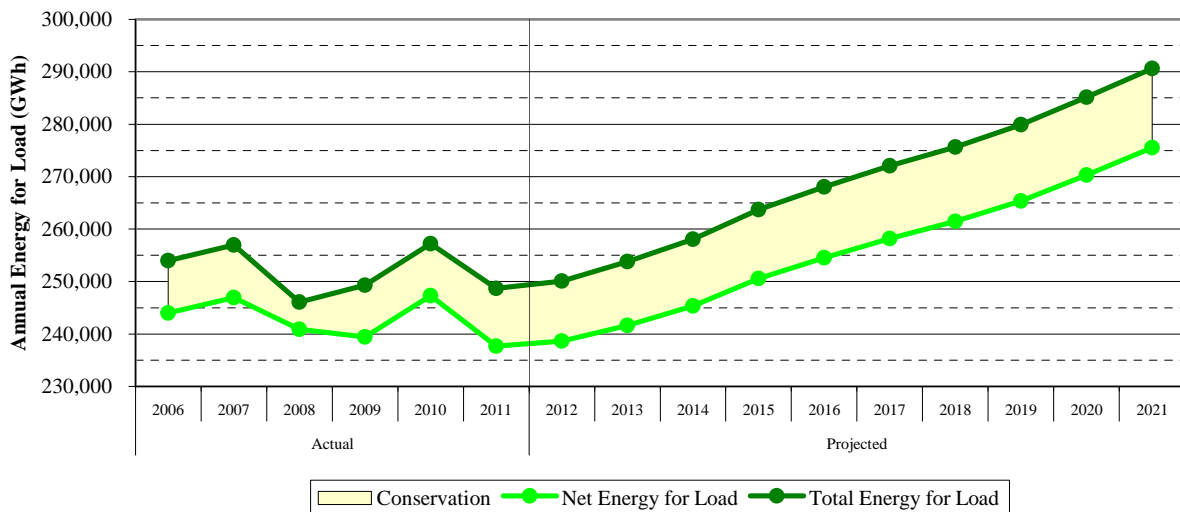


Source: FRCC 2008 - 2012 Load and Resource Plans

Annual Energy Consumption Forecasts

While peak demand is the instantaneous usage of a customer on the system, annual energy consumption addresses the total cumulative demand on the system over time, which determines the type of units required and the resulting amount of fuel consumed. Figure 10 below shows the historic and projected annual energy for load for the state of Florida. While energy consumption has been relatively steady for the past few years, it is anticipated to increase steadily through the end of the planning period.

Figure 10. State of Florida: Historic & Projected Annual Energy for Load (With DSM Impacts)



Source: FRCC 2008 - 2012 Load and Resource Plans

Historical Accuracy of Energy Forecasts

For each utility filing a TYSP, the Commission reviewed the historical forecast accuracy of total retail energy sales for the five-year period 2007 to 2011. The review compared actual energy sales for each year to energy sales forecasts made three, four, and five years prior. For example, the actual 2007 energy sales were compared to the projected 2007 forecasts made in 2002, 2003, and 2004. These differences, expressed as a percentage error rate, were used to calculate the utility's historical forecast accuracy.

Table 5 below illustrates the historical forecast error for 2012 and 2011, on an average error and average absolute error basis. The calculated average error is positive for all TYSP utilities, this shows a tendency to over-forecast, with the resulting average forecast error for all TYSP utilities combined at 11.38 percent in 2012, an increase from 8.45 percent in 2011.

Table 5. TYSP Utilities: Historical Accuracy of Net Energy for Load Forecasts

| TYSP Utility | Forecast Error (%) | | | |
|-------------------------|-----------------------------|------------------|-----------------------------|------------------|
| | 2012 (Years 2011 – 2007) | | 2011 (Years 2010 – 2006) | |
| | Average | Average Absolute | Average | Average Absolute |
| FPL | 12.12% | 12.12% | 10.92% | 10.97% |
| PEF | 11.36% | 11.90% | 6.17% | 7.05% |
| TECO | 13.07% | 13.07% | 8.95% | 8.95% |
| GULF | 5.44% | 7.37% | 1.97% | 5.62% |
| FMPA | 11.81% | 13.99% | 6.09% | 12.83% |
| GRU | 11.40% | 11.40% | 8.32% | 8.32% |
| JEA | 12.72% | 12.72% | 9.78% | 9.78% |
| LAK | 7.89% | 7.89% | 5.69% | 5.69% |
| OUC | 5.83% | 5.83% | 5.87% | 6.61% |
| SEC | 11.41% | 12.63% | 4.41% | 8.38% |
| TAL | 8.77% | 8.85% | 7.04% | 7.28% |
| Weighted Average | 11.38% | 11.38% | 8.45% | 8.63% |

Source: Staff Calculation based on Utilities 2001 – 2012 TYSPs

The high error rate, increased from last year's, represents the impact of the recession on energy usage in Florida. This analysis primarily uses forecasts developed from between 2002 and 2008, a majority of which occurred before the recession. Due to the unexpected nature of the recent recession, it could not have been included in forecasts as far as 5 years preceding the event. As this analysis moves forward and begins to use forecasts developed after the beginning of the recession, the error rate should fall back to typical levels.

As indicated by this high error rate, utilities projected increased need for energy that has not materialized due to the recession. As discussed below, Florida currently has an excess of generation, in part due to these projections. The TYSP utilities have responded to changing circumstances by delaying or cancelling new generation, as discussed in previous annual reviews of the TYSPs.

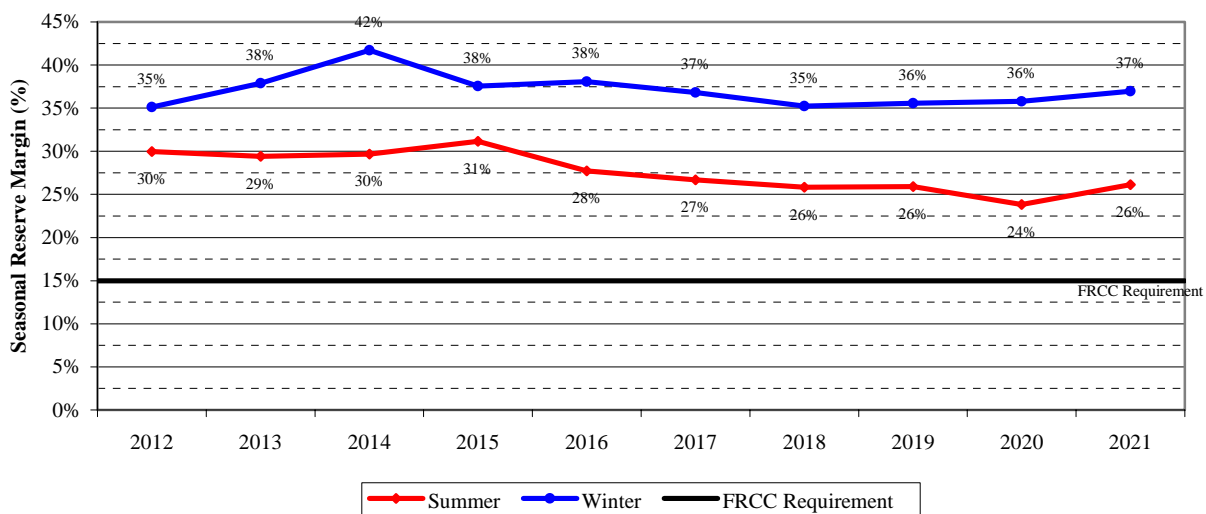
Reserve Margin Requirements

In order to maintain stability in the electric system, utilities must constantly adjust system output to match demand from moment to moment. As demand fluctuates, utilities must generate the precise amount of electrical power that will keep the system in balance while also performing periodic maintenance on its generating units. In addition, utilities must be prepared at any moment to meet unforeseen circumstances, such as extreme weather events or unit outages. Therefore, each utility must maintain a certain amount of “extra” or reserve capacity in the event that demand rises above or supply drops below forecasted levels. This additional amount of generating capacity is expressed as a percentage of firm demand and is referred to as the reserve margin.

Reserve margins in Florida typically remain well above the FRCC minimum of 15 percent for most of the year, and usually will only approach minimum levels in the summer peak season when air conditioning loads are at their highest levels. The higher margins during winter peak seasons are also due to the fact that generating units can operate at a higher capacity in colder temperatures. The three largest IOUs, FPL, PEF, and TECO, were party to a stipulation approved by the Commission setting a 20 percent reserve margin planning criterion.

The values in Figure 11 below include both supply-side and demand-side contributions, and shows that planning is mostly controlled by summer peak demand. It should be noted that the figure below is for the State of Florida, and therefore contains generating capacity outside of the FRCC region.

Figure 11. State of Florida: Seasonal Reserve Margin (With LM/INT)

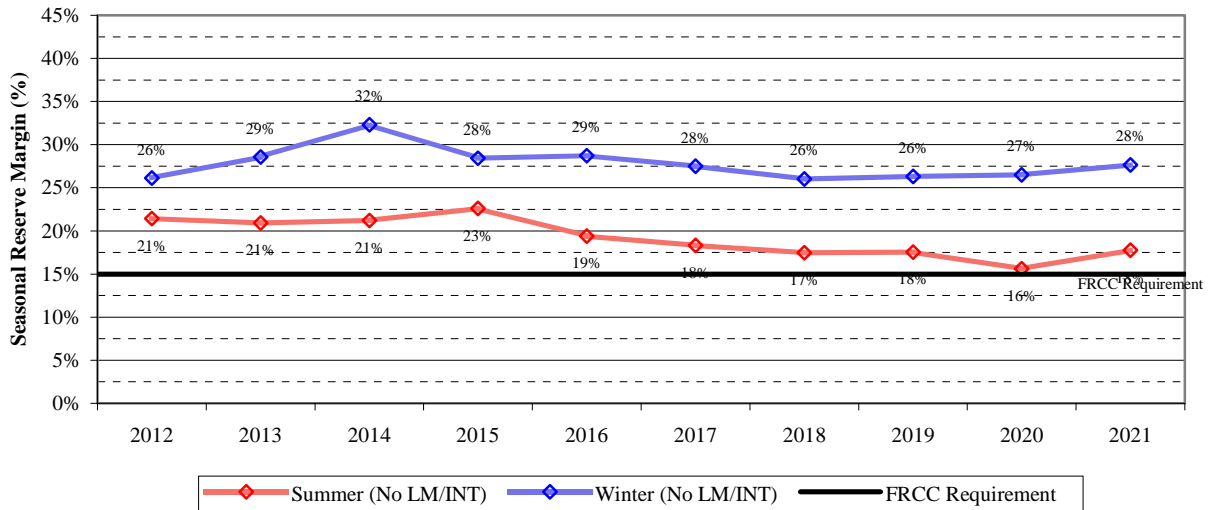


Source: FRCC 2012 Load and Resource Plan

It should be noted that the reserve margin figures above are calculated using the net firm system demand, which assumes full use of interruptible load and load management devices to reduce peak demand. Participation in interruptible rates and load management programs are

voluntary, for which incentives are provided in the form of lower rates or credits paid to the participant. As shown in Figure 12 below, the state as a whole has sufficient generation capacity planned throughout the period to meet the minimum reserve margin of 15 percent without relying on interruptible and load management customers.

Figure 12. State of Florida: Seasonal Reserve Margin (Without LM/INT)

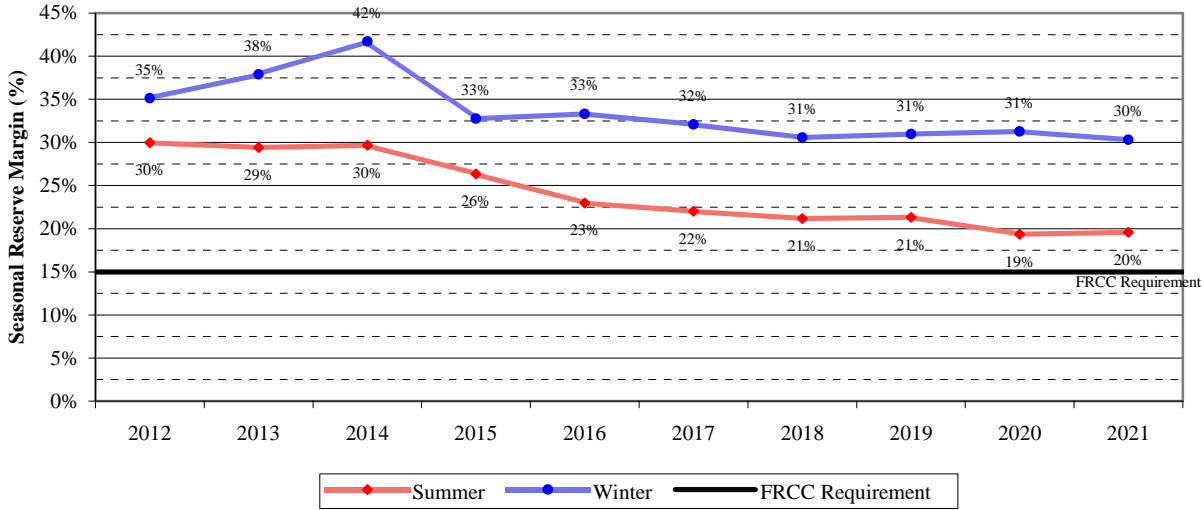


Source: FRCC 2012 Load and Resource Plan

The previous two figures have assumed that the expansion plans filed in the utilities TYSPs will continue as planned. Since the filing of the 2012 TYSPs, PEF has delayed the in-service date of the Levy 1 nuclear unit outside of the planning period. Staff is also aware of the long-term outage at PEF’s CR3 nuclear unit, which is currently offline and scheduled to return to service in November 2014 if repaired. Retirement remains an open option for this unit in the event it is determined to be uneconomic to repair, which would have an impact on the statewide reserve margin. In addition, several coal-fired plants were identified at the Commission’s Workshop on the 2012 Ten-Year Site Plans, which if retired would further decrease the state’s reserve margin.³ Figure 13 shows the total impact of the delay or potential retirement of all the units discussed above and that the state should still retain sufficient generating capacity. The potential impacts to PEF and GULF are discussed in the individual utility section of the report.

³ Specifically, PEF’s Crystal River 1 and 2 and GULF’s Lansing Smith 1 and 2.

Figure 13. State of Florida: Seasonal Reserve Margin After Potential Unit Retirements (With LM/INT)



Source: FRCC 2012 Load and Resource Plan, Staff Calculation

RENEWABLE GENERATION

Federal Legislation

In 1978, the U.S. Congress enacted the Public Utility Regulatory Policies Act (PURPA)⁴. PURPA endorsed three broad national purposes: (1) conservation of electric energy, (2) increased efficiency in the use of facilities and resources by electric utilities, and (3) equitable rates for electricity consumers. Section 210 of Title II, entitled “Cogeneration and Small Power Production,” required electric utilities to interconnect and sell electric energy to qualifying cogeneration and small power production facilities, referred to as Qualifying Facilities, or QFs, and to purchase electric energy from these facilities at the utility’s full avoided cost. The Federal Energy Regulatory Commission (FERC) subsequently adopted rules to implement PURPA. In addition, states were delegated authority to implement the FERC rules for electric utilities over which they have rate making authority.⁵ In 1980, the FERC issued its rules establishing the criteria for determining the qualifying status of a facility and setting out regulations for electric utility interconnection with QFs, along with sales to and purchases from QFs.⁶

State Legislation

In 1981, the Florida Legislature authorized the Commission to establish guidelines for the purchase and sale of capacity and energy from cogenerators and small power producers, which includes renewable generators. In 1989, the statutes were broadened with the enactment of Section 366.051, F.S., which provides, in part, the following:

Electricity produced by cogeneration and small power production is of benefit to the public when included as part of the total energy supply of the entire electric grid of the state or consumed by a cogenerator or small power producer. The electric utility in whose service area a cogenerator or small power producer is located shall purchase, in accordance with applicable law, all electricity offered for sale by such cogenerator or small power producer; or the cogenerator or small power producer may sell such electricity to any other electric utility in the state. The Commission shall establish guidelines relating to the purchase of power or energy by public utilities from cogenerators or small power producers and may set rates at which a public utility must purchase power or energy from a cogenerator or small power producer. In fixing rates for power purchased by public utilities from cogenerators or small power producers, the Commission shall authorize a rate equal to the purchasing utility’s full avoided costs. A utility’s “full avoided costs” are the incremental costs to the utility of the electric energy or capacity, or both, which, but for the purchase from cogenerators or small power producers, such utility would generate itself or purchase from another source.

⁴ Public Law 95-617 (HR 4018) November 9, 1978.

⁵ PURPA at Title II, section 210(f); In Florida, the Florida Public Service Commission has ratemaking jurisdiction over five investor-owned electric utilities: Florida Power & Light Company (FPL), Progress Energy Florida (PEF), Gulf Power Company (Gulf), Tampa Electric Company (TECO), and Florida Public Utilities Company (FPUC).

⁶ 18 C.F.R. 292.101 through 18 CFR 292.602.

In 2005, the Legislature enacted Section 366.91, F.S., which requires IOUs to continuously offer purchase contracts to producers of renewable energy, and adopts the avoided cost standard as defined in Section 366.051, F.S. Section 366.91, F.S., also defines the term “renewable energy” as follows:

“Renewable energy” means electrical energy produced from a method that uses one or more of the following fuels or energy sources: hydrogen produced from sources other than fossil fuels, biomass, solar energy, geothermal energy, wind energy, ocean energy, and hydroelectric power. The term includes the alternative energy resource, waste heat, from sulfuric acid manufacturing operations and electrical energy produced using pipeline-quality synthetic gas produced from waste petroleum coke with carbon capture and sequestration.

Commission Rules

Renewable facilities are permitted to enter into two types of contractual agreements for selling power: standard offer and negotiated contracts. Under these contracts, the energy can be sold as either “firm” or “as-available,” depending on the characteristics of the output of the facility. When the output is continuous, except for occasional shutdowns for maintenance and repair, the utility also makes payments for the dependable capacity. These contract and payment options are outlined in Rules 25-17.0825 and 25-17.0832, F.A.C.

Standard Offer Contracts

Standard offer contracts are pre-approved contracts for the purchase of firm capacity and energy from any renewable generating facility or small QF. Rule 25-17.230, F.A.C., requires each investor-owned electric utility to establish a standard offer contract for each fossil-fueled generating unit type identified in the utility’s TYSP. The renewable energy generator is allowed to select from a number of payment options that best fits its financing requirements as long as the total cumulative present value of such payments does not exceed full avoided cost, and adequate security for front-end loaded payments is provided. For example, the Commission rules allow for levelized payments over the life of the contract which may include both capacity and energy costs.

Negotiated Contracts

Renewable generating facilities are encouraged to negotiate purchased power contracts with IOUs pursuant to Rule 25-17.240, F.A.C. Payments made to a qualified renewable generator under a negotiated contract may be recovered from ratepayers by the purchasing utility as long as the cumulative present value of the payments does not exceed the utility’s full avoided cost and adequate security for front-end loaded payments is provided.

Renewable Payment Types

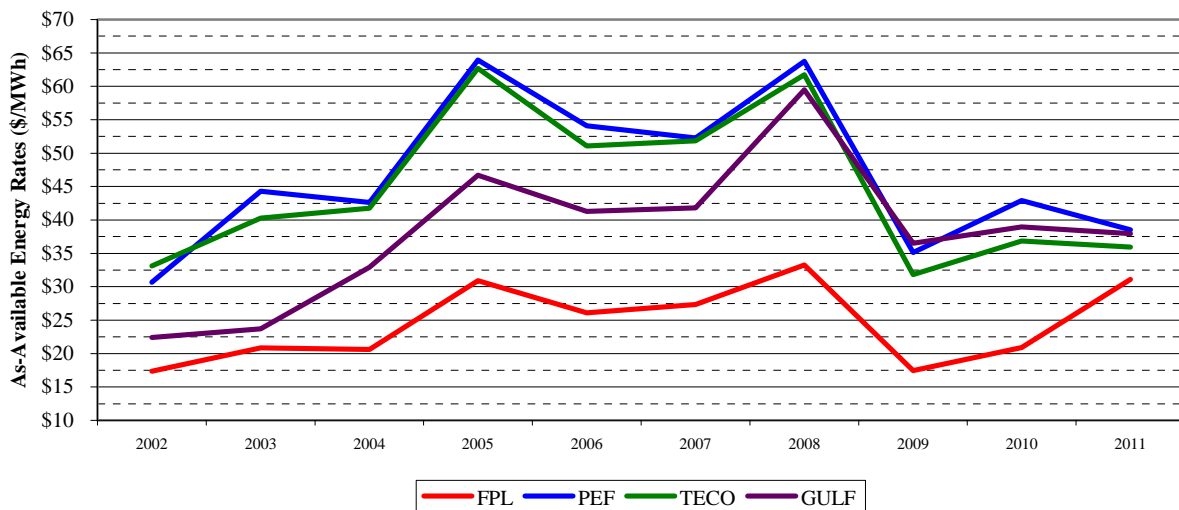
Pursuant to current state and federal law, payments made by utilities to generation facilities using renewable energy sources are capped at the utility’s avoided cost for capacity and energy.

Firm capacity payments: Firm capacity is capacity (MW) produced and sold by a renewable energy generator pursuant to a standard offer contract or a negotiated contract subject to contractual commitments as to the quantity, time, and reliability of delivery. Firm capacity is purchased at a rate specified in a contract which is equal to the utility’s avoided capacity cost or at a negotiated rate which may not exceed the utility’s avoided capacity cost. Full avoided cost is calculated by determining the cumulative present value of a year-by-year value of deferring each avoided unit over the term of the contract.

Firm energy payments: Firm energy is energy (kWh) produced and sold by a renewable energy generator pursuant to a negotiated contract or a standard offer contract subject to contractual commitments as to the quantity, time, and reliability of delivery. Generally, the rate of payment for firm energy, in cents per kWh, is the lesser of the fuel cost associated with the avoided unit or the utility system’s incremental fuel cost.

As-available energy payments: As-available energy is energy (kWh) produced and sold by a renewable energy generator on an hour-by-hour basis for which contractual commitments as to the quantity, time, or reliability of delivery are not required. As-available energy is purchased at a rate in cents per kilowatt hour (kWh) equal to the utility’s hourly incremental system fuel cost, which reflects the highest fuel cost of generation dispatched each hour. No capacity payments are made for as-available energy because no reliability benefits are received. Figure 14 below illustrates historic as-available energy payments from the investor-owned TYSP utilities for the period 2002 through 2011. When natural gas prices spiked in 2008, averaging \$10/MMBtu, as-available energy rates rose as well. As natural gas prices have declined since 2008, as-available energy rates have also decreased.

Figure 14. Investor Owned Utilities: Average Annual As-Available Energy Rates



Source: Responses to Staff Data Requests

Renewable Resource Outlook

In 2003, the Commission, in consultation with the DEP, completed the 2003 Renewable Energy Assessment Report to identify renewable energy viability in Florida. According to the report, the most feasible sources of renewable energy in Florida are from biomass materials, such as agricultural waste products or wood residues, and industrial waste heat. The 2003 report also stressed that technical feasibility does not ensure economic cost-effectiveness when determining energy resource production.

The Commission, in conjunction with the U.S. Department of Energy and the Lawrence Berkeley National Laboratory, retained Navigant Consulting, Inc. to prepare a detailed assessment of Florida's renewable potential. The 2008 Navigant Consulting Renewable Energy Potential Assessment (the 2008 Navigant Consulting Report) reported on the existing renewable conditions and the projected potential for renewable development in Florida through 2020, compared cost-effective differences, and considered the potential levels of economic impact future renewables may have. The 2008 Navigant Consulting Report substantiated the Commission's 2003 assessment by observing that the majority of Florida's existing renewables consist of solid biomass plants and municipal solid waste facilities. Although the 2008 Navigant Consulting Report considered solar technologies to have the largest technical potential of any renewable resource in Florida, only a portion of this potential can actually be economically achieved at this time.

The 2008 Navigant Consulting Report described the comparison of the technical or physical potential versus the achievable potential for renewable energy development in Florida. For example, although the technical potential for solar power in Florida may be relatively high according to Navigant Consulting, cost-effectiveness and siting issues significantly reduce the achievable potential to commercially develop solar energy technology. The driving forces to the expansion and sustainability of the renewable market depend on the overall value of renewable energy, a basis that is determined by the financial environment as well as government regulation and support. As noted in the 2008 Navigant Consulting Report, a favorable scenario for the renewable market which has meaningful growth in Florida assumed the following:

1. High fossil fuel costs
2. Access to low cost capital and debt rates
3. Continual government rebate programs and tax incentives
4. Established pricing of CO₂ emissions
5. Formation of a Renewable Energy Certificate (REC) market

Since the 2008 Navigant Consulting Report was completed, economic and policy conditions have not been favorable for future renewable development. Specifically, Navigant Consulting assumed in their 2008 natural gas costs to be \$11-\$14/MMBtu in the favorable scenario. Natural gas is currently trading at approximately \$2.95/MMBtu. Most forecasts project natural gas prices to gradually increase over the long term.

In the favorable scenario, Navigant assumed the estimated cost of debt to be approximately 6.5 percent, the cost of equity approximately 10 percent, and ready access to debt would make up 70 percent of renewable project financing. Currently credit markets are still tight for small businesses, and obtaining financing for renewable energy projects will be much more difficult for a smaller company than for a large utility.

In the favorable scenario, Navigant Consulting estimated that Florida’s solar rebate program would expire in 2020, with a \$10 million annual funding level. The Florida Energy and Climate Commission was authorized to provide \$25.4 million in rebates for solar energy equipment between 2006 and 2009. Currently the authorized budget has been depleted. Also, the favorable scenario for carbon pricing assumes \$2/ton initially, then scaling to \$50/ton by 2020. Currently, there is no federal or state policy establishing carbon pricing. The favorable scenario also envisioned the creation of a Renewable Energy Credit (REC) market, with REC prices of approximately \$18/MWh initially, decreasing to \$11/MWh by 2020. At this time, no Renewable Energy Credit market has been established in Florida.

Table 6 below compares selected assumptions included in Navigant’s favorable scenario and current market conditions. As detailed in the table, most current market conditions are not aligned with Navigant’s favorable scenario for renewable generation development.

Table 6. State of Florida: Market Outlook for Renewable Energy

| Market Area | 2008 Navigant Consulting Report Favorable Scenario | Current Market Conditions |
|---|---|----------------------------------|
| Natural Gas Prices (\$/MMBTU) | \$11 - \$14 | \$3 - \$4 |
| Access to Capital & Debt | Available at Low Cost | Credit Markets Tight |
| Florida Solar Rebate Program | Expires in 2020, \$10M/year | No Funds Allocated |
| CO2 Emissions Pricing (\$/ton) | \$2 (2009) to \$50 (2020) | No pricing established |
| Renewable Energy Certificates (\$/MWh) | \$18 (2009) to \$11 (2020) | No REC Market established |

Source: 2008 Navigant Consulting Report, Responses to Staff Data Requests

Existing Renewable Resources

Currently, renewable energy facilities provide approximately 1,400 MW of gross electric generation capacity as reported by the FRCC. Compared to figures in the 2011 Ten-Year Site Plan Review, existing renewable generation facilities have increased by approximately 120 MW, or 9 percent. Table 7 summarizes Florida’s existing renewable resources.

Table 7. State of Florida: Existing Renewable Generation Capacity

| Renewable Type | Capacity (MW) |
|------------------------------|----------------------|
| Solar | 143.3 |
| Wind | 0.0 |
| Biomass | 401.5 |
| Municipal Solid Waste | 453.7 |
| Waste Heat | 297.1 |
| Landfill Gas | 58.4 |
| Hydro | 55.7 |
| Total | 1,400 |

Sources: FRCC 2012 Load and Resource Plan, Responses to Staff Data Requests

Firm Capacity Contracts

Roughly 28 percent of all renewable capacity in Florida is from renewable generators with firm capacity contracts, which are required to provide a particular amount of capacity for a specified period of time pursuant to contractual obligations. Approximately 78 percent of this renewable capacity consists of municipal solid waste (MSW) facilities. Although the majority of firm capacity is purchased by investor-owned utilities, a significant portion (137.8 MW) is purchased by Seminole Electric Company (SEC).

Table 8 lists the existing renewable generators that provide firm capacity. Significant changes in the firm contracts since 2011 include rerates from FPL’s Palm Beach County Facility, SEC’s Lee County Resource Recovery Facility, and a new contract agreement for firm energy between McKay Bay Waste to Energy Facility with SEC.

Table 8. State of Florida: Firm Renewable Resources

| Purchasing Utility | Facility Name | Fuel Type | Gross Capacity* (MW) | Commercial In-Service Date |
|---------------------------------|-------------------------------------|-----------|----------------------|----------------------------|
| Investor-Owned Utilities | | | | |
| FPL | (Wheelabrator) Broward-South | MSW | 68 | 1987 |
| FPL | (Wheelabrator) Broward-North | MSW | 62 | 1992 |
| FPL | Solid Waste Authority of Palm Beach | MSW | 40 | 2005 |
| PEF | Pinellas County Resource Recovery | MSW | 61.7 | 1983 |
| PEF | Lake County Resource Recovery | MSW | 14.8 | 1990 |
| PEF | Dade County Resource Recovery | MSW | 43 | 1991 |
| PEF | Pasco County Resource Recovery | MSW | 26 | 1991 |
| PEF | Ridge Generating Station | WDS | 39.6 | 1994 |
| Subtotal of IOUs | | | 227.7 | |
| Municipal Utilities | | | | |
| GRU | G2 Energy | LFG | 4 | 2008 |
| GRU | Solar FIT Program/Net Meter | SUN | 26.8 | 2009 |
| JEA | Trailridge | LFG | 9 | 2008 |
| Subtotal of Municipals | | | 22.3 | |
| Cooperative Utilities | | | | |
| SEC | Lee County Resource Recovery | MSW | 50 | 1999 |
| SEC | Telogia Power, LLC | WDS | 13 | 2004 |
| SEC | Seminole Landfill | LFG | 6.2 | 2007 |
| SEC | Brevard Energy | LFG | 9 | 2008 |
| SEC | Timberline Energy | LFG | 1.6 | 2008 |
| SEC | Hillsborough Waste to Energy | MSW | 42.6 | 2010 |
| SEC | McKay Bay Waste to Energy | MSW | 22 | 2011 |
| Subtotal of Cooperatives | | | 137.8 | |
| Total | | | 387.8 | |

*The capacity listed here represents the gross capacity of the unit, which may be in excess of the contracted firm capacity of the generating unit.

Sources: FRCC 2012 Load and Resource Plan, Responses to Staff Data Requests

Non-Firm Renewable Energy Generators

In addition to the 387.8 MW of firm capacity described in Table 8 above, renewable energy facilities with a total capacity of 680.7 MW produce energy for sale to utilities on an as-available basis. Energy purchased on an as-available basis is considered non-firm capacity, and therefore cannot be counted on by Florida’s utilities for reliability purposes. The energy produced by these providers, however, does contribute to the avoidance of burning fossil fuels in existing generators. Table 9 details the various non-firm energy contracts.

Table 9. State of Florida: Non-Firm Renewable Resources

| Purchasing Utility | Facility Name | Fuel Type | Gross Capacity (MW) | Commercial In-Service Date |
|---------------------------------|---------------------------------|------------------|----------------------------|-----------------------------------|
| Investor-Owned Utilities | | | | |
| FPL | New Hope / Okeelanta | AB | 130 | 1991 |
| FPL | Georgia Pacific | WDS | 56.8 | 1995 |
| FPL | Tomoka Farms | LFG | 3.8 | 1998 |
| FPL | MMA FLA LP | SUN | 0.3 | 2007 |
| FPL | WM Renewable Energy | LFG | 8 | 2010 |
| PEF | Potash Of Saskatchewan | WH | 44.2 | 1986 |
| PEF | Buckeye | WDS | 52.3 | 1993 |
| PEF | G2 | LFG | 3.5 | 2008 |
| TECO | Mosaic: South Pierce | WH | 30 | 1969 |
| TECO | Mosaic: New Wales | WH | 79 | 1984 |
| TECO | CF Industries | WH | 34.9 | 1988 |
| TECO | City Of Tampa Sewage | OBG | 1.5 | 1989 |
| TECO | Mosaic: Ridgewood | WH | 62 | 1992 |
| TECO | Mosaic: Millpoint | WH | 47 | 1995 |
| GULF | Stone Container | AB | 25 | 1960 |
| GULF | International Paper Company | WDS | 56 | 1983 |
| GULF | Bay County Solid Waste | MSW | 13.6 | 2008 |
| Subtotal of IOUs | | | 647.9 | |
| Municipal Utilities | | | | |
| FMPA | US Sugar Corporation | AB | 26.5 | 1984 |
| LAK | Lakeland Center (Solar) | SUN | 0.3 | 2010 |
| OUC | Regenesis Stanton Energy Center | SUN | 6 | 2011 |
| Subtotal of Municipals | | | 32.8 | |
| Total | | | 680.7 | |

Sources: FRCC 2012 Load and Resource Plan, Responses to Staff Data Requests

Utility-Owned Renewable Facilities

Several utilities also own renewable facilities, primarily solar generation, landfill gas, and hydroelectric technologies. Table 10 lists some of the larger utility-owned resources, which consist mostly of non-firm or intermittent resources.

Table 10. State of Florida: Utility Owned Renewable Generation

| Purchasing Utility | Facility Name | Fuel Type | Gross Capacity (MW) | Commercial In-Service Date |
|---------------------------------|--------------------------------|-----------|---------------------|----------------------------|
| Investor-Owned Utilities | | | | |
| FPL | DeSoto | SUN | 25 | 2009 |
| FPL | Martin | SUN | 75 | 2010 |
| FPL | Space Coast Next Generation | SUN | 10 | 2010 |
| GULF | Perdido 1 | LFG | 1.8 | 2010 |
| GULF | Perdido 2 | LFG | 1.8 | 2010 |
| Subtotal of IOUs | | | 113.6 | |
| Municipal Utilities | | | | |
| JEA | North Landfill | LFG | 1.5 | 1997 |
| JEA | Girvin Landfill | LFG | 1.2 | 1999 |
| JEA | Buckman | OBG | 0.8 | 2003 |
| OUC | Co-Fired Stanton Energy Center | LFG | 7 | 1998 |
| TAL | Corn Hydro | WAT | 12.2 | 1985 |
| Subtotal of Municipals | | | 22.7 | |
| Other Utilities | | | | |
| UCEM | Jim Woodruff | WAT | 43.5 | 1957 |
| Subtotal of Other | | | 43.5 | |
| Total | | | 179.8 | |

Sources: FRCC 2012 Load and Resource Plan, Responses to Staff Data Requests

Because most of the energy produced is non-firm, the majority of these renewable facilities serve more to reduce fossil fuel consumption than to provide system capacity. Among some of the recent notable additions to utility-owned renewables are the construction and operation of three solar generators by FPL in 2009 and 2010. The DeSoto, Martin, and Space Coast facilities are currently the largest solar facilities in Florida.⁷ Also in 2010, GULF commissioned two landfill gas generation facilities, Perdido 1 and 2, to provide that utility with a total renewable gross capacity of 3.6 MW.

Existing Net Metering

Net metering is an arrangement between a utility and a customer with renewable generation capability whereby the customer's energy usage is offset, or credited, by the amount of energy generated. The customer will be billed for any net energy consumed that exceeds the energy generated.

In April 2008, the Commission amended Rule 25-6.065, F.A.C., on interconnection and net metering for customer-owned renewable generation. The rule requires the IOUs to offer net metering for all types of renewable generation up to 2 MW in capacity and a standard interconnection agreement with an expedited interconnection process. Customers benefit from

⁷ The DeSoto and Space Coast facilities are direct energy-producing photovoltaic facilities, whereas the Martin facility uses thermal heat to create replacement steam for a pre-existing steam turbine usually supplied through fossil fuel generation.

such renewable systems by reducing their energy purchases from the utility and potentially selling excess energy to the utility.

The Commission’s rule requires all electric utilities to annually report data associated with interconnection and net metering programs. Data submitted in April 2010 show that the number of customers owning renewable generation systems in Florida continues to grow. Statewide, a total of 29.3 MW of solar photovoltaic (PV) capacity from 3,994 systems have been installed, up from 2.8 MW produced by 537 systems in 2008. Table 11 displays the information on customer-owned renewable generation for 2011 reported by Florida’s utilities.

Table 11. State of Florida: Customer Owned Renewable Generation

| Utility Type | Connections | Non-Firm Capacity (MW) |
|-----------------------------|--------------|------------------------|
| Investor-Owned | 2,826 | 20.4 |
| Municipal | 615 | 5.0 |
| Rural Electric Cooperatives | 553 | 3.9 |
| Total | 3,994 | 29.3 |

Sources: 2012 Interconnection and Net Metering of Customer-Owned Generation Report

Planned Renewables Additions

Florida’s utilities plan to construct or purchase an additional 957 MW of renewable generation over the ten-year planning period. The expected major contributors to actual energy generation are planned biomass resources. Table 12 summarizes the overall proposed planned increases by generation type of all utilities. The largest source of planned renewable generation comes in the form of non-firm solar capacity built by a single vendor, National Solar. The company has as-available energy contracts with PEF, and as they have no capacity portion, are not considered for reliability purposes.

Table 12. State of Florida: Planned Renewable Resource Net Additions

| Fuel Type | Capacity (MW) |
|-----------------------|---------------|
| Solar | 553.4 |
| Wind | 0 |
| Biomass | 321 |
| Municipal Solid Waste | 70 |
| Waste Heat | 0 |
| Landfill Gas | 13 |
| Hydro | 0 |
| Total | 957.4 |

Sources: FRCC 2012 Load and Resource Plan, Responses to Staff Data Requests

As of January 2012, firm capacity contracts represent 39 percent of total planned renewable additions. Table 13 and Table 14, provide detailed lists of the renewable resources planned for construction in Florida over the ten-year planning horizon. Table 13 shows that, of the renewable firm capacity planned over the ten-year horizon, the majority is woody biomass that will be purchased by PEF and GRU.

Table 13. State of Florida: Planned Firm Renewable Resources

| Purchasing Utility | Facility Name | Fuel Type | Gross Capacity* (MW) | Commercial In-Service Date |
|---------------------------------|-------------------------------------|------------------|-----------------------------|-----------------------------------|
| Investor-Owned Utilities | | | | |
| PEF | FB Energy | AB | 60 | 2013 |
| PEF | Trans World Energy | WDS | 40 | 2013 |
| PEF | US EcoGen | WDS | 60 | 2014 |
| FPL | Solid Waste Authority of Palm Beach | MSW | 70 | 2016 |
| | Subtotal of IOUs | | 230 | |
| Municipal Utilities | | | | |
| JEA | Trailridge | LFG | 9 | 2012 |
| OUC | Port Charlotte | LFG | 4 | 2012 |
| OUC | Harmony | WDS | 5 | 2012 |
| GRU | American Renewables LLC | WDS | 116 | 2013 |
| GRU | Solar FIT Program | SUN | 9.3 | 2021 |
| | Subtotal of Municipals | | 143.3 | |
| | Total | | 373.3 | |

Sources: FRCC 2012 Load and Resource Plan, Responses to Staff Data Requests

Table 14 shows that most of the non-firm capacity planned in Florida will be purchased by PEF, primarily from National Solar, discussed above.

Table 14. State of Florida: Planned Non-Firm Renewable Resources

| Purchasing Utility | Facility Name | Fuel Type | Capacity (MW) | Commercial In-Service Date |
|---------------------------------|---------------------------------|-----------|---------------|----------------------------|
| Investor-Owned Utilities | | | | |
| FPL | INEOS Bio | AB | 2 | 2011 |
| PEF | Eliho | WDS | 8 | 2011 |
| PEF | E2E2 | WDS | 30 | 2012 |
| PEF | Blue Chip Energy #1 | SUN | 50 | 2013 |
| PEF | National Solar #5-10 | SUN | 450 | 2021 |
| All IOUs | Solar Installations (Aggregate) | SUN | 0.1 | 2021 |
| Subtotal of IOUs | | | 540.1 | |
| Municipal Utilities | | | | |
| OUC | CNL/City Hall | SUN | 0.4 | 2012 |
| OUC | GSLD Solar | SUN | 0.8 | 2012 |
| TAL | SDA | SUN | 2 | 2012 |
| TAL | SolarSink | SUN | 0.5 | 2012 |
| TAL | SunnyLand Solar | SUN | 1 | 2012 |
| LAK | Regenesis Power | SUN | 15 | 2016 |
| LAK | SunEdision | SUN | 24 | 2017 |
| All Munis | Solar Installations (Aggregate) | SUN | 0.2 | 2021 |
| Subtotal of Municipals | | | 43.9 | |
| Total | | | 584 | |

Sources: FRCC 2012 Load and Resource Plan, Responses to Staff Data Requests

Updated Navigant Consulting Report

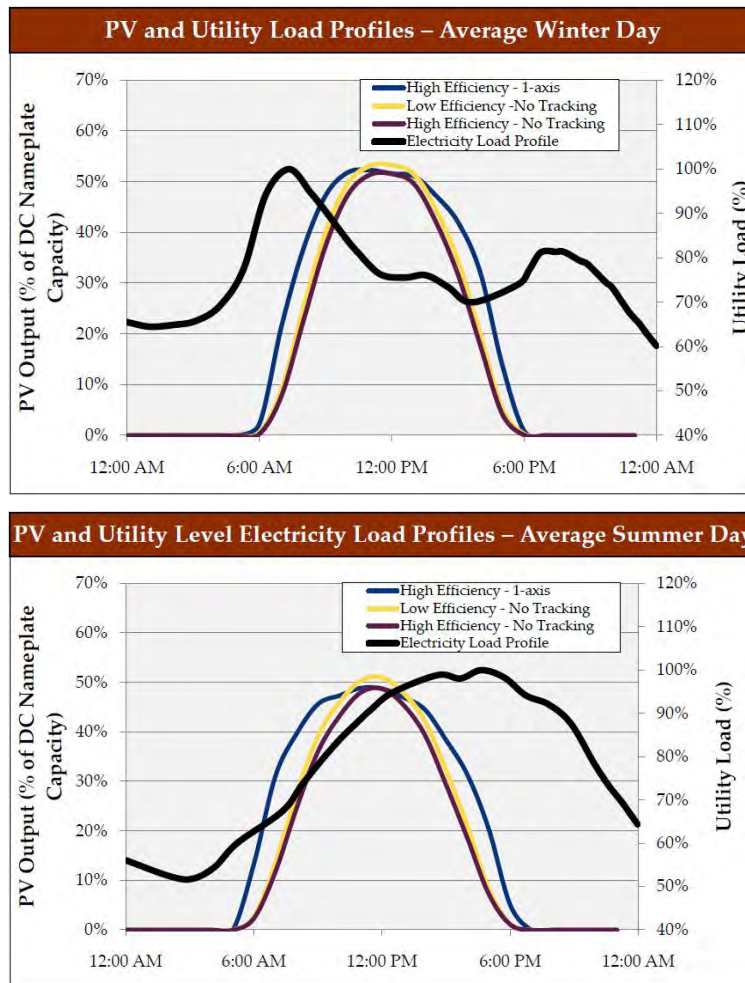
The Commission contracted with Navigant Consulting in early 2010 to update its 2008 analysis with current conditions. In June 2010, Navigant Consulting released new comparisons of cost estimates for different renewable generating facilities. Navigant Consulting also provided additional detail pertaining to Florida’s renewable resource which it identified as having the most technical potential for growth, solar PV facilities. Findings from the report are summarized below.

In the 2010 Navigant Consulting Report Update, the most meaningful findings include changes in prices of renewable technologies. PV module prices have fallen and commodity costs for PV units have decreased during the recession, but both are returning to near their pre-recession levels. Wind power prices have also decreased due to the recession, while utility turbine prices have risen as worldwide demand catches up with supply. According to the 2010 Navigant Consulting Report Update, no large performance breakthroughs occurred for any technology. Because Navigant Consulting found solar resources to hold the most potential in Florida, the remainder of the 2010 Navigant Consulting Report Update focuses on solar power.

The 2010 Navigant Consulting Report Update estimates that solar power systems have increased in efficiency while overall prices have decreased up to 40 percent since 2008. In spite of these changes, solar power systems continue to have some of the highest capital costs per kW of any renewable generating system. Varying the methods of using solar energy involving solar tracking technology and alternating solar film receptors produces a slight range of energy output and net capacity factors. In addition, the ability of solar PV systems to provide energy are limited to daytime hours. Supplemental battery storage units may alleviate this issue, but the costs of batteries are not included in Navigant Consulting’s estimates.

Even with these advancements, capacity factors of solar panels are projected to remain below 25 percent. Such results indicate that solar PV facilities operate more like a conventional peaking unit and will not replace the need for base-load generating facilities. However, Navigant Consulting also reported that operating characteristics for these systems do not correlate with daily peak load hours. As shown in Figure 15, Navigant Consulting estimates that the peak output from solar PV facilities reaches a maximum of approximately 50 percent of the rated capacity, and occurs after the system’s winter peak hour and before the system’s summer peak hour. As a result, a solar PV facility’s ability to provide reliability benefits appears limited.

Figure 15. Solar PV Output and Utility Seasonal Load Profiles



Sources: 2010 Navigant Consulting Report Update

TRADITIONAL GENERATION

Current demand and energy forecasts continue to indicate that in spite of increased levels of conservation, energy efficiency, and renewable generation, the need for traditional generating capacity still exists. While reductions in demand have been significant, the total demand for electricity and the per-capita consumption is expected to increase, making the addition of traditional generating units necessary to satisfy reliability requirements and provide sufficient electric energy to Florida's consumers. Because any capacity addition has certain economic impacts based on the capital required for the project, and due to increasing environmental concerns relating to solid fuel-fired generating units, Florida's utilities must carefully weigh the factors involved in selecting a supply-side resource for future traditional generation projects.

In addition to traditional economic analyses, utilities also consider several strategic factors, such as fuel availability, generation mix, and environmental compliance prior to selecting a new supply-side resource. Limited supplies, access to water or rail delivery points, pipeline capacity, water supply and consumption, land area limitations, cost of environmental controls, and fluctuating fuel costs are all important considerations.

Gas fired units have almost exclusively been selected in recent years due to higher thermal efficiencies, lower capital costs, short periods for permitting and construction, and sometimes the smaller land areas required. With the recent decrease in fuel prices due to unconventional natural gas production using hydraulic fracturing, natural gas is the favored fuel for all traditional generating units with the exception of new nuclear units.

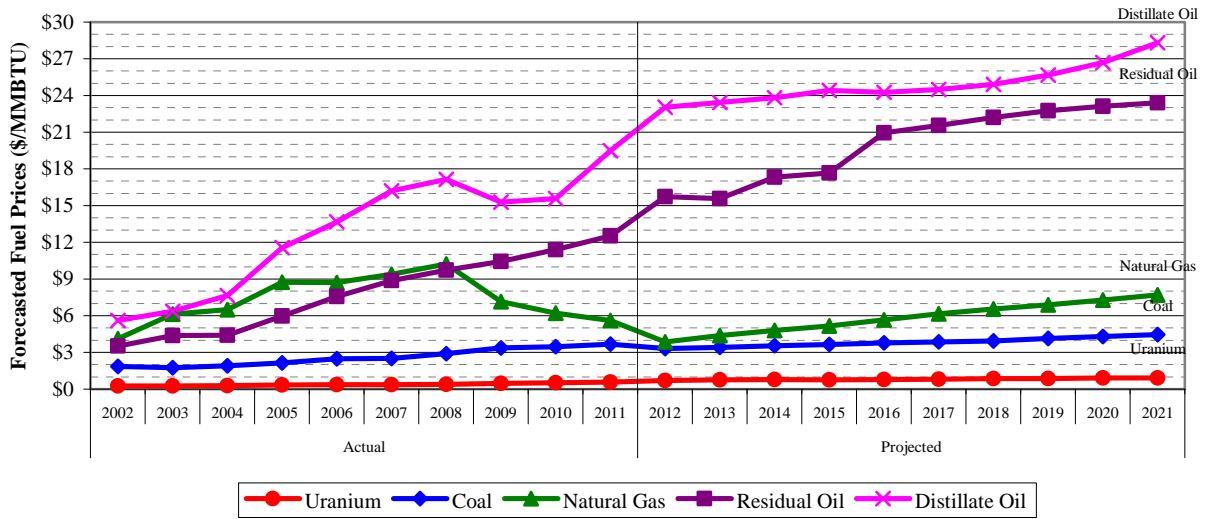
In the last ten years, almost 97 percent of all capacity additions to Florida's electric system use natural gas as the primary fuel. Coal units that were planned have been cancelled, and new nuclear units that have been approved have been delayed beyond the planning horizon. Currently, other than approximately 950 MW of renewable generation and 600 MW in uprates for existing nuclear units, all of the additional generation planned for the next ten years will use natural gas as a fuel source.

Fuel Price Forecasts

Fuel price forecast is the primary factor affecting the type of generating unit added by an electric utility. In general, the capital cost of a generating unit is inversely proportional to the cost of the fuel used to generate electricity from that unit. Historically, when the forecasted price difference between coal or nuclear and natural gas was small, the addition of a natural gas unit became the more attractive option. As the fuel price gap widened, a coal-fired or nuclear unit would normally be the more likely choice.

From 2003 to 2005, the price of natural gas was substantially higher than utilities had forecasted. This disparity led to concern regarding escalating customer bills and an expectation that natural gas prices would continue to be high and extremely volatile. As a result, Florida's utilities began making plans to build coal-fired units rather than continuing to increase the reliance on natural gas. However, as Figure 16 shows, the price of natural gas began to return to more historic levels after peaking in 2008, and has declined in the years since. Forecasts predict that gas prices will increase at a steady level throughout the planning horizon.

Figure 16. TYSP Utilities: Historic & Projected Weighted Average Fuel Prices (\$/MMBtu)



Source: Responses to Staff Data Request

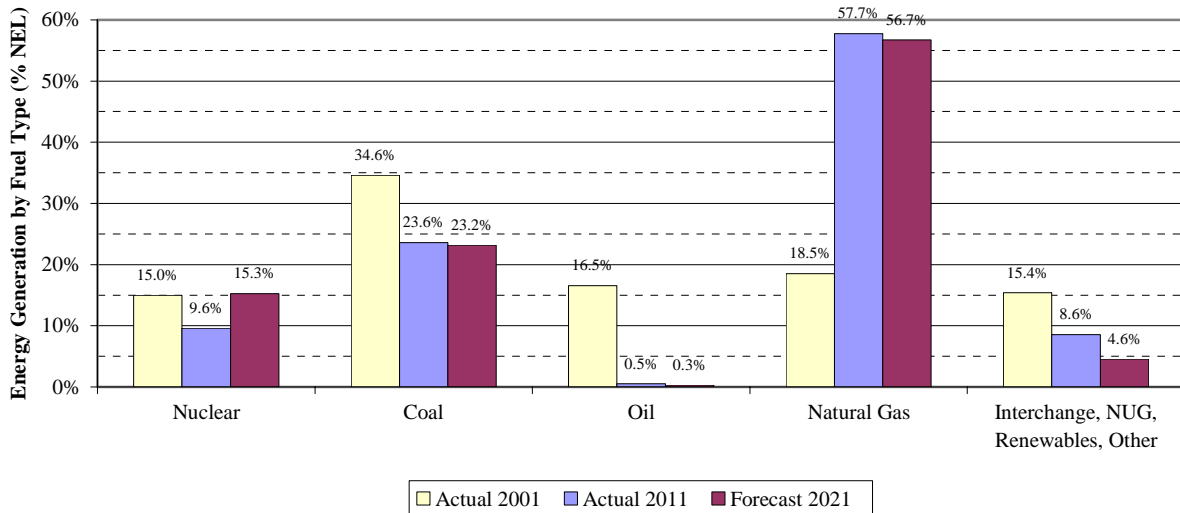
Previous TYSP reviews indicated that increases in gas prices may bring an end to the almost exclusive addition of natural gas-fired generation. As can be seen from Figure 16, the expectation of high prices for natural gas has not materialized and although it is forecasted to increase steadily, the rate of increase is more moderate than was previously contemplated.

Utility plans for a balanced fuel system have historically been highly dependent upon the accuracy of long-term fuel price forecasts, mostly due to the long lead times required for coal and especially nuclear generators. However, in recent years the options available to utilities for the addition of supply-side generation have been limited, and this situation seems unlikely to change at this time. Utilities will be faced with selecting technologies for new generation that will either continue to increase the already very high percentage of natural gas resources, or attempting to obtain approval for solid fuel resources that may have a negative near term rate impact.

Fuel Diversity

Natural gas has risen to become one of the dominant fuels in the state in the last ten years, displacing coal, and in 2011 generated more net energy for load than any two fuels combined in Florida. As Figure 17 shows, natural gas now makes up greater than 57.7 percent of electric energy consumed in Florida. Natural gas usage is anticipated to peak in 2012 at 62.4 percent, and then decline slightly to 56.7 percent by 2021.

Figure 17. State of Florida: Net Energy for Load by Fuel Type



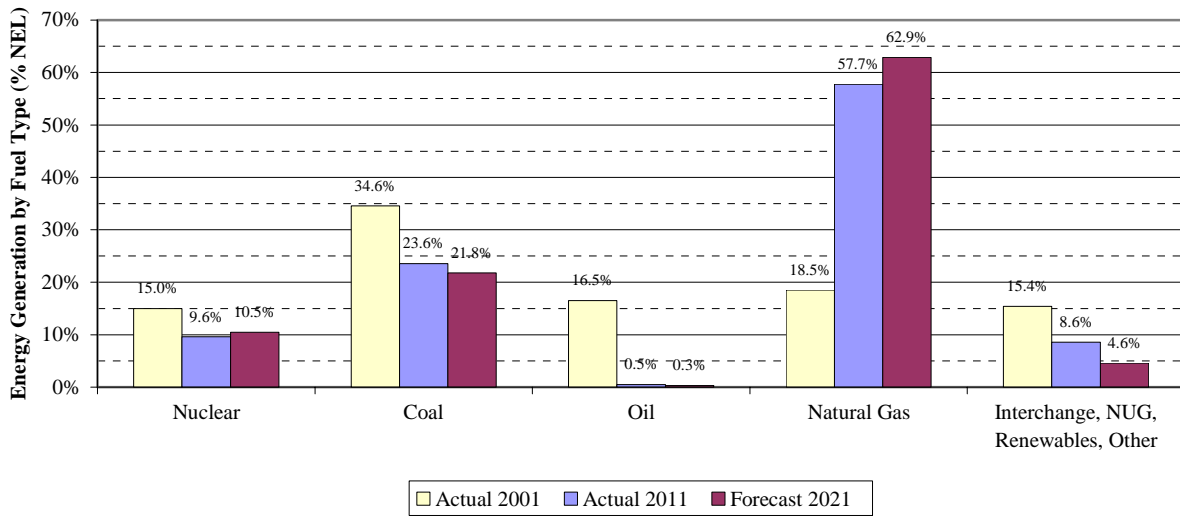
Source: FRCC 2002 and 2012 Load and Resource Plans

The anticipated decline in natural gas consumption by the end of the planning period is the result of increased nuclear generation and relatively stable contribution to NEL from coal-fired generation. Nuclear generation may decline from that projected in the FRCC 2012 Load and Resource Plan, primarily due to the delay of the Levy 1 nuclear unit, discussed below, and if the CR3 nuclear unit is retired instead of repaired. CR3 has been offline since 2009, following a delamination incident during a steam generator replacement project.

Coal generation, beyond the reduction in dispatch due to the cost-competitiveness of natural gas as a baseload fuel, faces challenges relating to new environmental compliance requirements. As discussed below, new EPA regulations will potentially require installation of new environmental controls, which could lead to the retirement of units if it is deemed uneconomic to upgrade its emission control equipment. During the 2012 TYSP Workshop, four coal units, PEF's Crystal River 1 & 2, and GULF's Lansing Smith 1 & 2, were identified by the Sierra Club/Earthjustice as potential units to consider retirement, though at this time all four are scheduled to remain in-service throughout the planning period.

If the projected generation associated with the nuclear and coal units discussed above is displaced by natural gas, it would have the net effect of increasing natural gas' share of state electric generation to 62.9 percent by 2021, as shown in Figure 18 below.

Figure 18. State of Florida: Net Energy for Load by Fuel Type After Generation Displacement



Source: FRCC 2002 and 2012 Load and Resource Plans, Utilities 2012 TYSPs, Responses to Staff Data Requests.

Because a balanced fuel supply can enhance system reliability and mitigate the effects of volatile fuel price fluctuations, it is important that utilities have the greatest possible level of flexibility in their generation fuel source mix. Although the Commission has cited the growing lack of fuel diversity within the State of Florida as a major strategic concern for the past several years, natural gas is anticipated to remain the dominant fuel over the planning horizon. Excluding renewables, all new generation facilities planned within the State of Florida over the ten-year period are natural gas-fired units.

Opportunities for Unit Modernization

Florida’s generating fleet consists of incremental new additions to the historic base fleet, with units retiring as they become uneconomical to operate or maintain. Currently Florida’s existing capacity ranges greatly in age and fuel type, and legacy investments continue.

While some units must be retired upon reaching the end of their economic life and cannot be refurbished, others have the potential for modernization. The modernization of existing generating units allows for significant improvement in both performance and emissions, typically at a price lower than new construction. Modernization typically involves the conversion of a generating unit from less efficient fossil steam generation to combined cycle operation. For some power plant sites, modernization does not involve using any of the existing generator units themselves, but rather the generation site’s existing facilities such as transmission or fuel handling for an entirely new unit. For some steam units, generation output can be improved by installing more advanced equipment, such as the nuclear uprates discussed below. Other modernizations allow for changes in fuel type, or increased ability to use alternate fuels. Due to low natural gas price forecasts, the ability to run a unit on higher quantities of natural gas instead of fuel oil may be an economically viable option, even for an older generating unit.

Since the existing unit must be removed from service for a period of time, a utility's reliability is affected during the conversion process. As a result, scheduling modernizations during periods of temporary excess capacity is more desirable. With the forecasted decline in load, several of Florida's utilities may have sufficient reserve margins to allow some of their smaller units to be converted, and the upcoming ten-year planning horizon appears to be an ideal window for completing these types of projects. Not all sites are candidates for modernization due to site layout and other concerns, and to minimize rate impacts, modernization of existing units should be investigated before considering new construction. Utilities should continue to explore potential conversion projects and report the feasibility and economic viability of each conversion in next year's TYSPs and before any need determination filing.

In response to a staff data request, the TYSP utilities identified the following facilities as potentially capable of conversion. Table 15 below summarizes their responses for conversion from fossil steam generation. Additional units were identified for conversion from simple cycle combustion turbines to combined cycle units.

Table 15. State of Florida: Potential Steam Units for Modernization

| Utility | Generating Unit Name | Fuel Type | Summer Capacity (MW) | Original In-Service Date | Modernization Type |
|---------|----------------------------|----------------|----------------------|--------------------------|--------------------|
| FPL | Manatee Units 1 & 2 | Oil / NG | 1624 | 1976 - 1977 | CC |
| FPL | Martin Units 1 & 2 | Oil / NG | 1652 | 1980 - 1981 | CC |
| FPL | Sanford Unit 3 | Oil / NG | 138 | 1959 | CC |
| FPL | Turkey Point Units 1 & 2 | Oil / NG | 788 | 1967 - 1968 | CC |
| FPL | Cutler Unit 5 & 6 | NG | 205 | 1954 - 1955 | CC |
| PEF | Anclote Units 1 & 2 | NG / Oil | 1011 | 1974 - 1978 | CC |
| PEF | Suwannee River Units 1 - 3 | NG / Oil | 129 | 1953 - 1956 | CC/RF |
| PEF | Crystal River Units 1 & 2 | Coal | 873 | 1966 - 1969 | CC/IGCC |
| PEF | Crystal River Units 4 & 5 | Coal | 1422 | 1982 - 1984 | CC/IGCC |
| GULF | Crist Units 4 & 5 | Coal | 150 | 1959 - 1961 | Natural Gas |
| GULF | Scholz Units 1 & 2 | Coal | 92 | 1953 | Biomass |
| JEA | SJRPP Units 1 & 2 | Coal / Petcoke | 626 | 1987 - 1988 | CC |
| JEA | Northside Unit 3 | NG / Oil | 524 | 1977 | CC |

Source: Responses to Staff Data Request

The Commission has previously granted determinations of need for three conversions from fossil steam to combined cycle units. The approved conversions, located at FPL's Cape Canaveral, Riviera, and Port Everglades sites, represent a significant increase in generating capacity while reusing the plant site and reducing fuel usage and emissions. PEF has also recently conducted a conversion of its Bartow plant from fossil steam to a combined cycle unit. This conversion did not require a PPSA determination of need.

Impact of EPA Regulations

In addition to maintaining a fuel efficient and diverse fleet, Florida's utilities must also comply with changing environmental requirements. Within the past several years, the EPA has finalized or proposed several rules which will impact both existing and planned units within the

state. Potential environmental requirements and their associated costs must be considered to fully evaluate any new supply-side resources, as well as the maintenance and dispatch of existing generating units.

While at this time no units are anticipated to be retired as a result of any of these regulations, they do represent an increase cost of operations. Each utility should evaluate whether these additional costs or limitations allow the continued economic operation of each impacted unit, and whether installation of emissions control equipment, fuel switching, or retirement is the proper course of action to maintain the lowest cost to customers and meet environmental requirements. Several of the TYSP utilities have provided preliminary estimates based upon known and proposed rule language, and are shown in Table 16 below.

Table 16. TYSP Utilities: Preliminary Estimates of EPA Rule Compliance Cost

| Utility | Preliminary Total Cost Estimates* |
|--|--------------------------------------|
| | (\$ Millions) |
| Florida Power & Light | \$348 - \$1,741 |
| Progress Energy Florida | \$165 - \$1,330 |
| Tampa Electric Company | \$763 |
| Gulf Power Company | \$1,270 - \$2,737 |
| Florida Municipal Power Agency | \$39 |
| Gainesville Regional Utilities | Not Available |
| JEA | Not Available |
| Lakeland Electric | Not Available |
| Orlando Utilities Commission | \$157 |
| Seminole Electric Cooperative | Not Available |
| City of Tallahassee | \$5 |
| Total of All Utilities | \$2,747 - \$6,772 |
| * These estimates are not final, and may not include all rules. Source: Responses to Staff Data Request | |

Table 17 is a partial listing of notable units and their anticipated unit costs for compliance. At this time, several of the proposed EPA Rules are the subject of litigation, or have not yet produced a final rule. More precise data associated with compliance costs for all units is anticipated in future filings by the utilities once rules are finalized and environmental compliance methods are determined.

Table 17. TYSP Utilities: Preliminary Estimates of EPA Rule Compliance Costs by Unit

| Primary Owner | Facility Name | Fuel | Net Summer Capacity | EPA Rule Impact (\$ Million) | | | | Total |
|---------------------|-------------------|------|---------------------|------------------------------|--------------------|--------------------|-------------------|--------------------|
| | | | | MATS ⁸ | CSPAR ⁹ | CWIS ¹⁰ | CCR ¹¹ | |
| PEF | Anclote 1&2 | Oil | 1011 | 80 | - | 15-130 | - | 95-210 |
| PEF | Bartow 4 | NG | 1,133 | - | - | 10-170 | - | 10-170 |
| PEF | Crystal River 1&2 | Coal | 873 | TBD | - | 45-780 | TBD | 45-780 |
| PEF | Crystal River 4&5 | Coal | 1422 | 5-50 | - | 2-5 | TBD | 7-55 |
| PEF | Suwannee 1-3 | Oil | 129 | - | - | 5-75 | - | 5-75 |
| TECO | Big Bend 1-4 | Coal | 1552 | 10 | - | 400 | 3-6 | 413-416 |
| TECO | Polk 1 | Coal | 220 | - | - | - | 1-2.5 | 1-2.5 |
| TECO | Bayside 1&2 | NG | 1,630 | - | - | 400 | - | 400 |
| GULF | Daniel 1-2 | Coal | 510 | 310-617 | | 1-2 | 110-210 | 421-829 |
| GULF | Crist 4-5 | Coal | 150 | 40-305 | | 26-47 | 170-450 | 236-802 |
| GULF | Crist 6-7 | Coal | 756 | | | | | |
| GULF | Smith 1-2 | Coal | 357 | 60-288 | | 1-65 | 30-260 | 91-613 |
| GULF | Scholz 1-2 | Coal | 92 | 6-97 | | 1-50 | 160-180 | 167-327 |
| OUC | Stanton 1&2 | Coal | 886 | 2 | 118 | - | 13 | 133 |
| Total Impact | | | 10,721 | 631-1,557 | | 904-2,124 | 487-1,122 | 2,024-4,813 |

Source: Responses to Staff Data Request

Power Plant Siting Act

The Florida PSC is given exclusive jurisdiction by the Legislature, through the PPSA, to be the forum for determining the need for new electric power plants. Any proposed steam or solar generating unit of at least 75 MW requires certification under the Power Plant Siting Act.

Approximately 7,200 MW of new generating units are planned to enter service over the next 10-year period, consisting solely of natural gas-fired combustion turbines and combined cycle units. A majority of this capacity has already received a determination of need from the Commission or is exempted from the statutory requirements of the PPSA. Only 2,418 MW still requires certification, as shown in Table 18. TECO has recently issued a Request for Proposals (RFP) for its planned unit, a combined cycle conversion of several existing simple cycle combustion turbines at the Polk Power Station, and filed for a need determination on September 12, 2012.

⁸ Mercury and Air Toxics Standards (MATS) Rule.

⁹ Cross-State Air Pollution Rule (CSAPR)

¹⁰ Cooling Water Intake Structures (CWIS) Rule

¹¹ Coal Combustion Residuals (CCR) Rule.

Table 18. State of Florida: Projected Units Requiring Power Plant Siting Act Certification

| Utility | Generating Unit Name | Summer Capacity (MW) | Certification Dates | | In-Service Date |
|-------------|-----------------------------|----------------------|----------------------------|----------------|-----------------|
| | | | Need Approved (Commission) | PPSA Certified | |
| FPL | St. Lucie Unit 1 Uprate | 129 | 01/2008 | 09/2008 | 05/2012 |
| FPL | Turkey Point Unit 3 Uprate | 123 | 01/2008 | 10/2008 | 06/2012 |
| FPL | St. Lucie Unit 2 Uprate | 84 | 01/2008 | 09/2008 | 10/2012 |
| FPL | Turkey Point Unit 4 Uprate | 123 | 01/2008 | 10/2008 | 02/2013 |
| FPL | Cape Canaveral | 1,210 | 09/2008 | 10/2009 | 06/2013 |
| FPL | Riviera Beach | 1,212 | 09/2008 | 11/2009 | 06/2014 |
| PEF | Crystal River Unit 3 Uprate | 154 | 02/2007 | 08/2008 | 11/2014 |
| FPL | Port Everglades | 1,277 | 04/2012 | 02/2013* | 06/2016 |
| TECO | Polk 2-5 CC | 1,063 | - | - | 01/2017 |
| PEF | Unknown | 767 | - | - | 06/2019 |
| SEC | Unnamed CC1 | 196 | - | - | 12/2020 |
| SEC | Unnamed CC2 | 196 | - | - | 12/2020 |
| SEC | Unnamed CC3 | 196 | - | - | 12/2021 |

*Estimated Date for Siting Board Hearing on Site Certification.
Source: Utilities 2012 TYSPs

Nuclear

Nuclear capacity, while an alternative to natural gas-fired generation, is capital-intensive and requires a long lead time to construct. Florida’s utilities project an expansion of nuclear power in the state through uprates at existing nuclear power plants, and the construction of four new nuclear units. FPL’s and PEF’s TYSPs anticipate approximately 600 MW of capacity to be added by uprates.

While PEF’s 2012 TYSP originally projected the in-service date for Levy Unit 1 in 2021, PEF’s filing in Docket No. 120009-EI indicates that it will be delayed until 2024. Table 19 below provides a summary of nuclear capacity additions planned in the State.

Table 19. State of Florida: Projected Nuclear Uprates & New Units

| Utility | Generating Unit Name | Summer Capacity (MW) | In-Service Date |
|--------------------------------------|----------------------|----------------------|-----------------|
| Existing Nuclear Unit Uprates | | | |
| FPL | St. Lucie Unit 1 | 129 | 05/2012 |
| FPL | Turkey Point Unit 3 | 123 | 06/2012 |
| FPL | St. Lucie Unit 2 | 84 | 10/2012 |
| FPL | Turkey Point Unit 4 | 123 | 02/2013 |
| PEF | Crystal River Unit 3 | 154 | 11/2014 |
| New Nuclear Units | | | |
| FPL | Turkey Point 6 | 1100 | 06/2022 |
| FPL | Turkey Point 7 | 1100 | 06/2023 |
| PEF | Levy 1 | 1092 | 06/2024 |
| PEF | Levy 2 | 1092 | 06/2025 |

Source: Utilities 2012 TYSPs, Utilities filings in Docket 120009-EI

Natural Gas

With the exception of the aforementioned renewable and nuclear capacity, all remaining new generation comes in the form of natural gas fired combustion turbines or combined cycle units. The 2012 TYSPs include approximately 7,200 MW of natural gas-fired generation.

A total of 1,571 MW of natural gas-fired combustion turbine capacity is expected to enter service by 2021. Because these units are not steam-fired capacity, they do not require siting under the PPSA. A list of all combustion turbine units entering service is included in Table 20.

Table 20. State of Florida: Projected New Combustion Turbines

| Utility | Generating Unit Name | Summer Capacity (MW) | In-Service Date |
|---------|----------------------|----------------------|-----------------|
| SEC | Unnamed CT1 | 158 | 12/2018 |
| TECO | Future CT 1 | 149 | 05/2019 |
| SEC | Unnamed CT2 | 158 | 12/2019 |
| SEC | Unnamed CT3 | 158 | 12/2020 |
| SEC | Unnamed CT4 | 158 | 12/2020 |
| SEC | Unnamed CT5 | 158 | 12/2020 |
| SEC | Unnamed CT6 | 158 | 05/2021 |
| SEC | Unnamed CT7 | 158 | 12/2021 |
| SEC | Unnamed CT8 | 158 | 12/2021 |
| SEC | Unnamed CT9 | 158 | 12/2021 |

Source: Utilities 2012 TYSPs

The remainder of the natural gas-fired additions come from combined cycle units, which currently represent the most abundant type of generating capacity in the State of Florida, making up approximately a third of installed capacity in 2012. As combined cycles utilize steam generated from the waste heat of combustion turbines, they fall under the PPSA when they have greater than 75 MW of steam capacity. Table 21 below includes all combined cycle units planned to enter service by 2021. With these new additions (6,117 MW in total), natural gas-fired combined cycles will represent approximately half of all generation within the state.

Table 21. State of Florida: Projected New Combined Cycle Units

| Utility | Generating Unit Name | Summer Capacity (MW) | In-Service Date |
|---------|----------------------|----------------------|-----------------|
| FPL | Cape Canaveral | 1,210 | 06/2013 |
| FPL | Riviera Beach | 1,212 | 06/2014 |
| FPL | Port Everglades | 1,277 | 06/2016 |
| TECO | Polk 2-5 CC | 1,063 | 01/2017 |
| PEF | Unknown | 767 | 06/2019 |
| SEC | Unnamed CC1 | 196 | 12/2020 |
| SEC | Unnamed CC2 | 196 | 12/2020 |
| SEC | Unnamed CC3 | 196 | 12/2021 |

Source: Utilities 2012 TYSPs

Transmission Capacity

As generation capacities increase, the transmission system must grow accordingly to maintain the capability of delivering the energy to the end user. The Commission has been given broad authority pursuant to Chapter 366, F.S., to require reliability within Florida’s coordinated electric grid and to ensure the planning, development, and maintenance of adequate generation, transmission, and distribution facilities within the state.

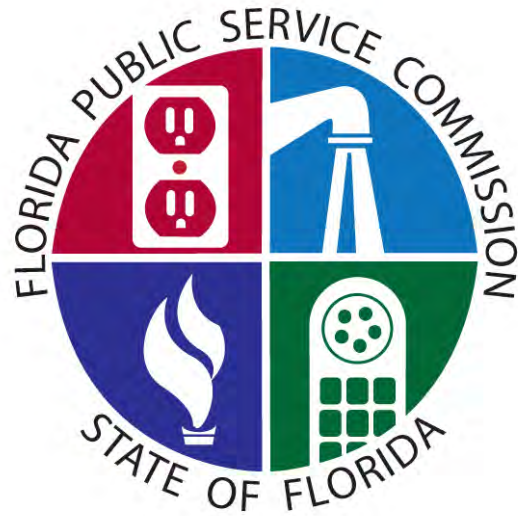
The Commission has authority over certain proposed transmission lines under the Transmission Line Siting Act (TLSA). To require certification under Florida’s TLSA, a proposed transmission line must meet the following criteria: a nominal voltage rating of at least 230 kV, crossing a county line, and a length of at least 15 miles. Proposed lines in an existing corridor are also exempt from TLSA requirements. The Commission determines the reliability need for and the proposed starting and ending points for lines requiring TLSA certification. The Commission must issue a final order granting or denying a determination of need within 90 days of the petition filing. The proposed corridor route is determined by the DEP during the certification process. Much like the PPSA, the Governor and Cabinet sitting as the Siting Board ultimately must approve or deny the overall certification of the proposed line.

Table 22 below lists all proposed transmission lines in the 2012 TYSPs that require TLSA certification. The Polk-Aspen-FishHawk line is directly associated with the combined cycle conversion at the Polk Power Station, and is anticipated to be reviewed concurrently.

Table 22. State of Florida: Proposed Transmission Requiring Transmission Line Siting Act Certification

| Utility | Transmission Line | Line Length (Miles) | Nominal Voltage (kV) | Certification Dates | | Commercial In-Service Date |
|---------|-----------------------------|---------------------|----------------------|----------------------------|----------------|----------------------------|
| | | | | Need Approved (Commission) | TLSA Certified | |
| PEF | Intercession City - Gifford | 13 | 230 | 09/2007 | 01/2009 | 05/2013 |
| FPL | Manatee – Bobwhite | 30 | 230 | 08/2006 | 11/2008 | 12/2014 |
| FPL | St Johns – Pringle | 25 | 230 | 05/2005 | 04/2006 | 12/2016 |
| TECO | Polk-Aspen-FishHawk | 62.5 | 230 | - | - | 01/2017 |

Source: FRCC 2012 Load & Resource Plan, Utilities 2012 TYSPs



Utility Perspectives

FLORIDA POWER AND LIGHT COMPANY (FPL)

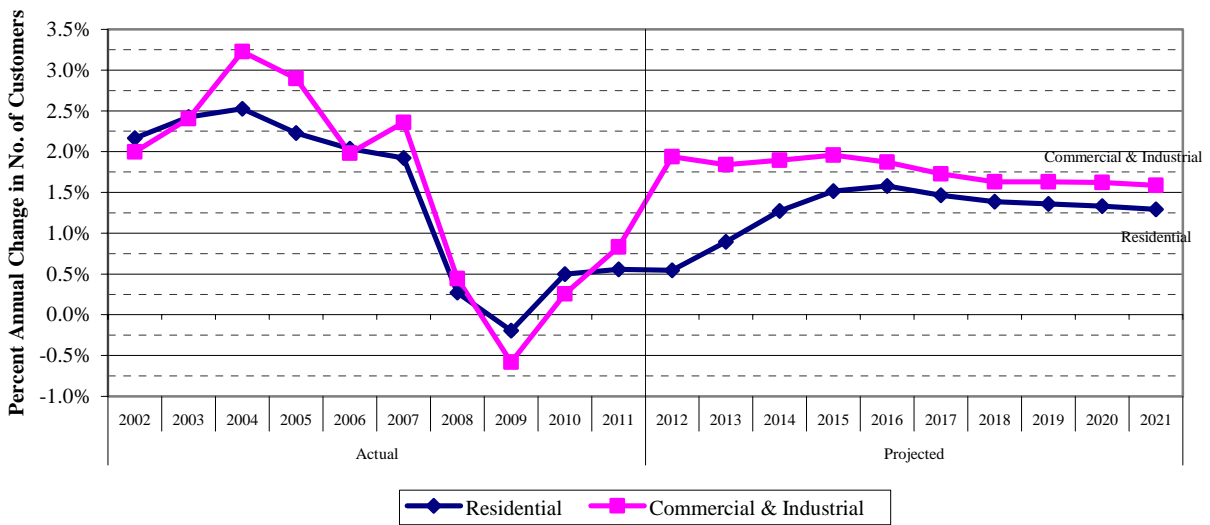
FPL is the state’s largest electric utility. The utility’s service territory is within the FRCC region, and is primarily in southern Florida and along the east coast. As FPL is an IOU, the Commission has regulatory authority over all aspects of operations, including rates and safety.

In 2011, FPL had an average of 4,547,051 customers, and had a total net energy for load of 103,327 GWh, approximately 47.3 percent of the NEL generated in the entire state last year.

Peak Demand and Energy Forecasts

FPL Figure 1 illustrates the company’s actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth for 2012 through 2021. Positive growth is anticipated over the entire planning period, with an average annual growth rate (AAGR) of 1.39 percent. This compares to the actual AAGR of 2.27 for the period 2002 through 2007.

FPL Figure 1: Annual Customer Growth Rate by Customer Class



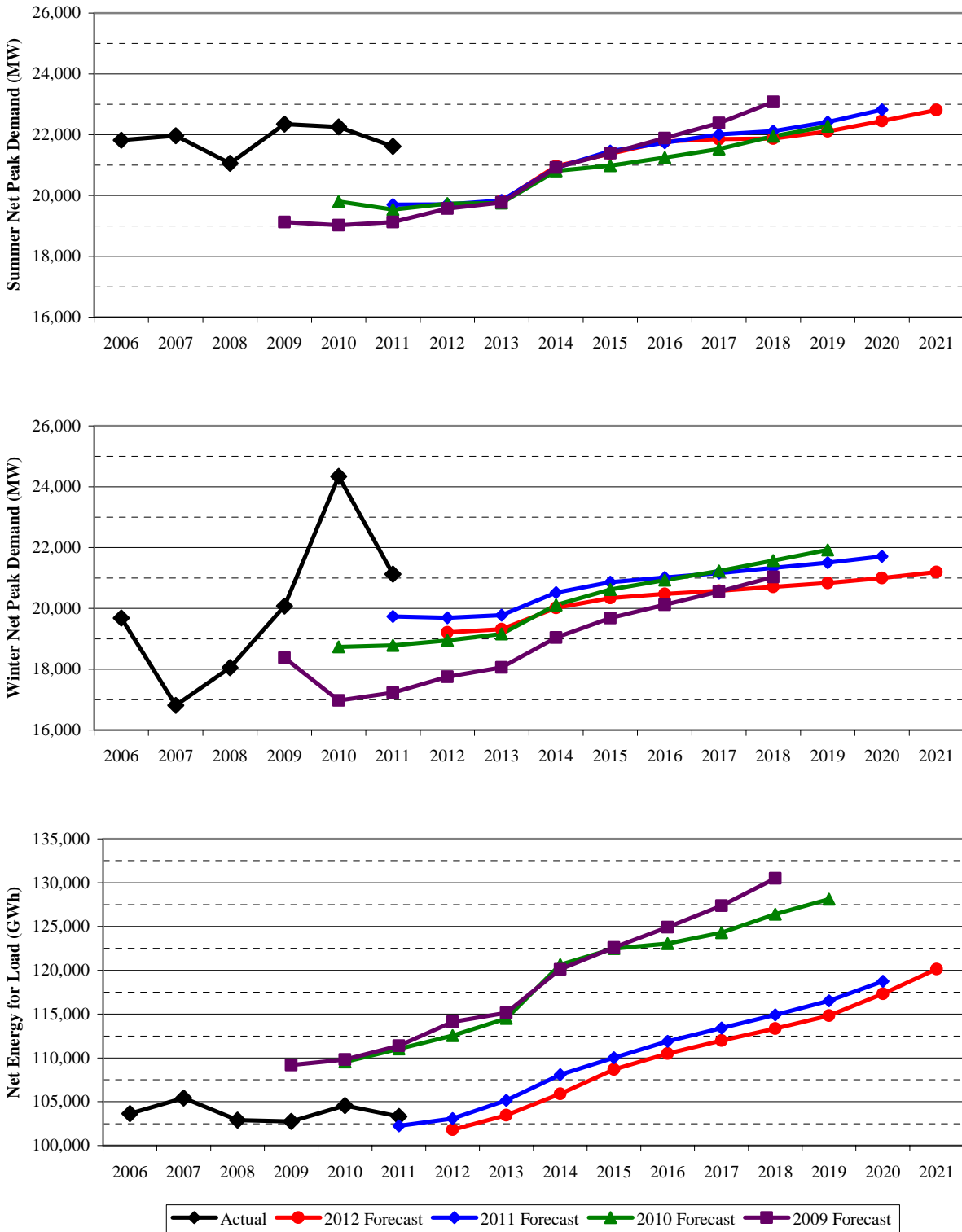
Source: FPL 2012 TYSP

The following three graphs in FPL Figure 2 show FPL’s historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current year and three previous forecast years. These figures show that the current forecast is similar but slightly lower than the 2011 values for both seasons of peak demand and NEL.

Analysis of FPL’s historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that FPL’s average forecast error is 12.12 percent. This value indicates that the company tends to over-forecast its retail energy sales by 12.12 percent, which is unfavorable when compared to the average forecast error for all eleven of the TYSP utilities, which was

11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

FPL Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts

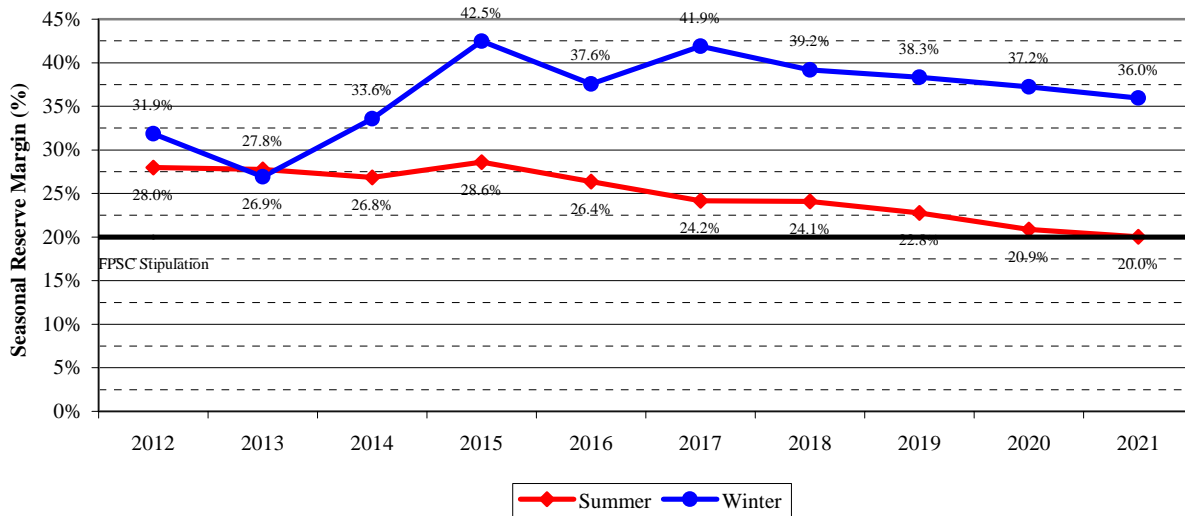


Source: FPL 2009 -2012 TYSPs

Reserve Margin Requirements

As mentioned in the Statewide Perspective, FPL maintains a minimum 20 percent reserve margin for planning purposes based on a stipulation approved by the Commission. FPL Figure 3 displays the projected reserve margin for FPL through the planning period for both seasonal peaks. As shown in the figure, summer peak demand would be the driving force for generation additions. The reserve margin shown below includes the cumulative impact of conservation and demand response on FPL’s system demand.

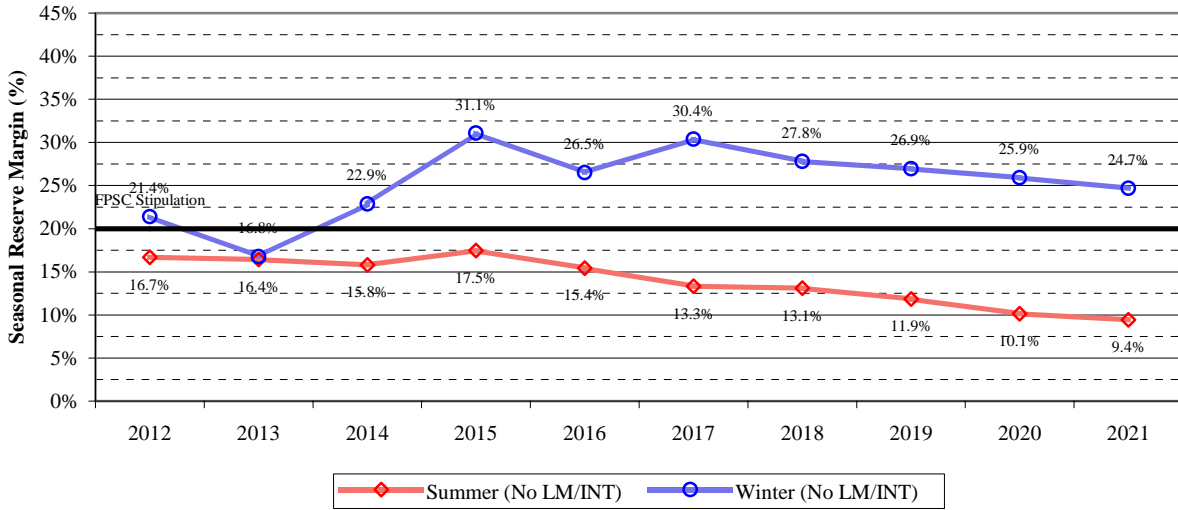
FPL Figure 3. Seasonal Reserve Margin (With LM/INT)



Source: FPL 2012 TYSP

Some concerns have been expressed regarding increased dependence upon demand response to meet customer peak demand. The concern is that interruptible load and load management programs are voluntary, and that customers may elect to opt-out of an existing program if the utility interrupted service too frequently. FPL Figure 4 shows the impact of excluding demand response programs from meeting customer demand, which causes the reserve margin to fall below both the company’s stipulated 20 percent reserve margin and the FRCC Region’s 15 percent planning margin for the summer only. FPL has indicated that it is continuing to study the possibility of instituting a generation-only minimum reserve.

FPL Figure 4. Seasonal Reserve Margin (Without LM/INT)

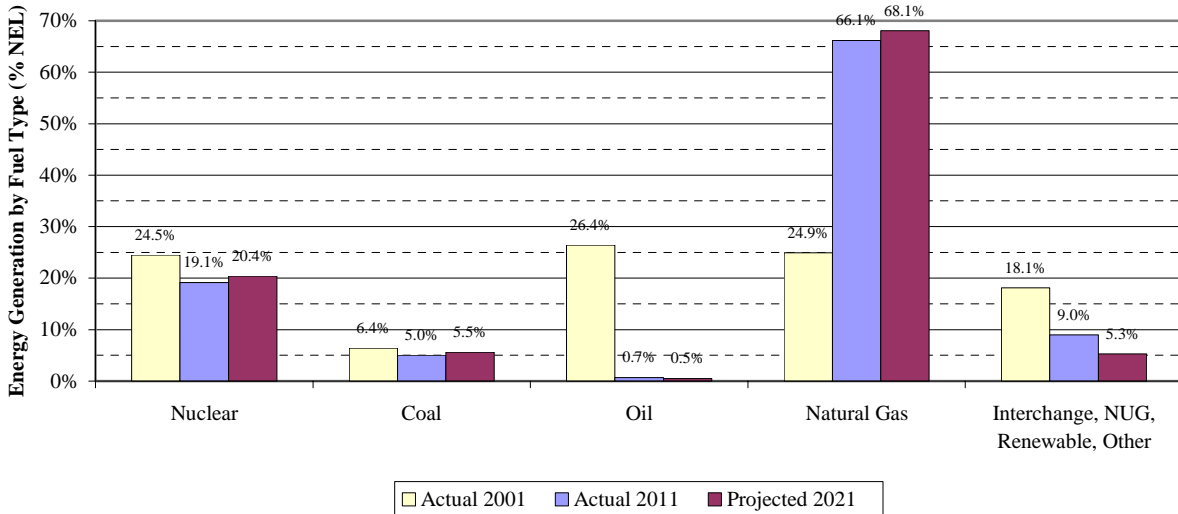


Source: FPL 2012 TYSP

Fuel Diversity

FPL Figure 5 shows FPL’s historic fuel mix for 2001 and 2011, and the projected fuel mix for 2021. FPL’s primary generation fuel is natural gas, which has increased from about a quarter of system energy in 2001, to approximately two-thirds by 2011. Natural gas is projected to remain the main system fuel, with 68.1 percent of net energy for load generated by natural gas.

FPL Figure 5. Net Energy for Load by Fuel Type



Source: FPL 2002 and 2012 TYSPs

Generation Additions

FPL's 2012 TYSP includes 3 new generating units, all of which are natural gas-fired combined cycles. FPL also anticipates uprates at all its nuclear generation units by 2013, and two new nuclear units, Turkey Point 6 & 7, which are planned beyond the planning horizon. All of the new generation units that FPL is planning to add to its system are shown in FPL Table 1.

FPL Table 1. Planned Generation Additions

| Generating Unit Name | Summer Capacity (MW) | Certification Dates (if Applicable) | | In-Service Date |
|---|----------------------|-------------------------------------|----------------|-----------------|
| | | Need Approved (Commission) | PPSA Certified | |
| Nuclear Unit Uprates | | | | |
| St. Lucie Unit #1 Uprates | 129 | 09/2008 | 09/2008 | 5/2012 |
| St. Lucie Unit #2 Uprates * | 84 | 09/2008 | 09/2008 | 10/2012 |
| Turkey Point Unit # 3 Uprates | 123 | 09/2008 | 10/2008 | 6/2012 |
| Turkey Point Unit # 4 Uprates | 123 | 09/2008 | 10/2008 | 2/2013 |
| Combined Cycle Unit Additions | | | | |
| Cape Canaveral Next Generation Clean Energy Center | 1,210 | 09/2008 | 10/2009 | 6/2013 |
| Riviera Beach Next Generation Clean Energy Center | 1,212 | 09/2008 | 11/2009 | 6/2014 |
| Port Everglades Next Generation Clean Energy Center | 1,277 | 4/2012 | 02/2013*** | 6/2016 |
| Nuclear Unit Additions | | | | |
| Turkey Point Unit #6** | 1,100 | 3/2008 | 12/2013*** | 6/2022 |
| Turkey Point Unit #7** | 1,100 | 3/2008 | 12/2013*** | 6/2023 |

*31 MW of St. Lucie Unit #2 uprates have already been achieved in 2011.

** These units are outside of the 2012-2021 planning period

*** This is the anticipated date of the Siting Board Hearing on Site Certification.

Source: FPL 2012 TYSP

PROGRESS ENERGY FLORIDA, INC. (PEF)

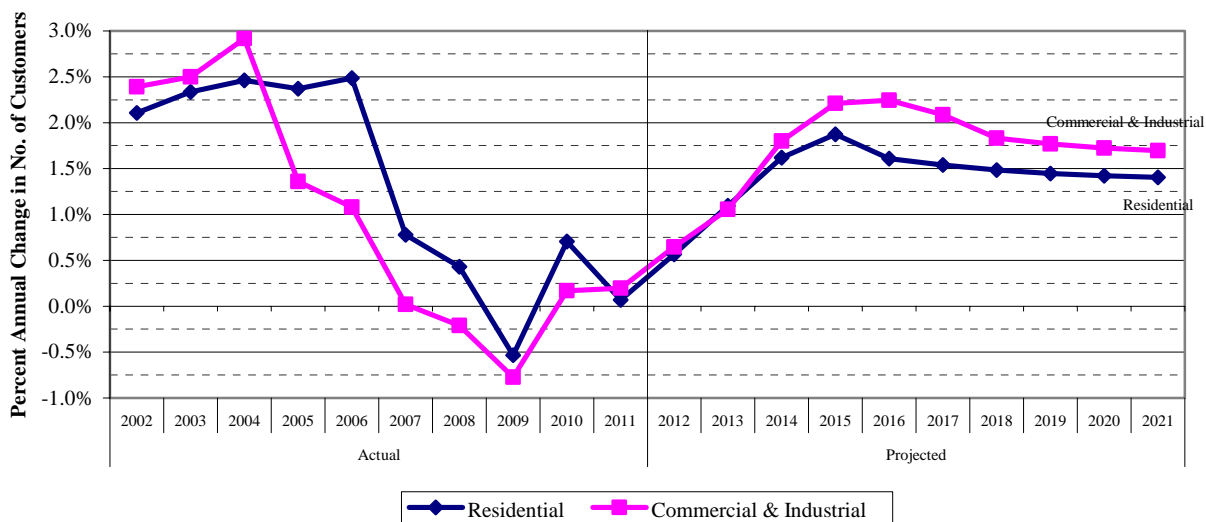
PEF is an investor-owned utility, and Florida’s second largest TYSP utility. The utility’s service territory is within the FRCC region, and is primarily located in central and west central Florida. As PEF is an IOU, the Commission has regulatory authority over all aspects of operations, including rates and safety.

In 2011, PEF had an average of 1,642,161 customers, and had a total net energy for load of 42,490 GWh, approximately 17.9 percent of the NEL generated in the entire state last year.

Peak Demand and Energy Forecasts

PEF Figure 1 illustrates the company’s actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth for 2012 through 2021. Customer growth is anticipated to increase from the period of the economic downturn until approximately 2015, and then remain steady or decline somewhat while remaining positive until the end of the period, yielding an average annual growth rate of 1.53 percent. This compares with the actual rate of 2.03 for the period 2002 through 2007.

PEF Figure 1. Annual Customer Growth Rate by Customer Class

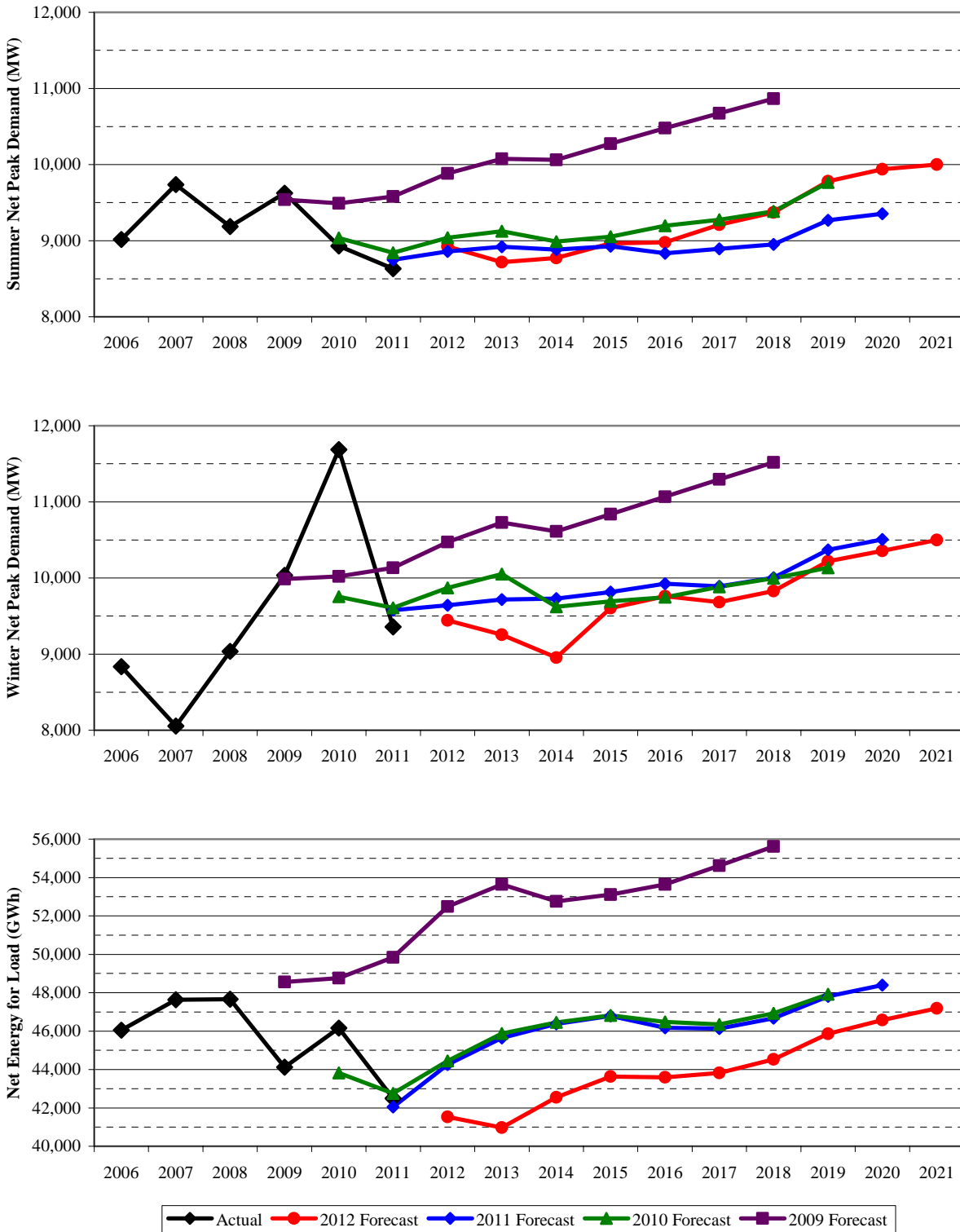


Source: PEF 2012 TYSP

The following three graphs in PEF Figure 2 show PEF’s historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current year and three previous forecast years. These figures show that the current forecast is significantly above last year’s in summer peak demand, but below the 2011 forecast for winter peak demand and NEL.

Analysis of PEF's historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that PEF's average forecast error is 11.36 percent. This value indicates that the company tends to over-forecast its retail energy sales by 11.36 percent, which is approximately equivalent to the average forecast error for all eleven of the TYSP utilities, which was 11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

PEF Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts

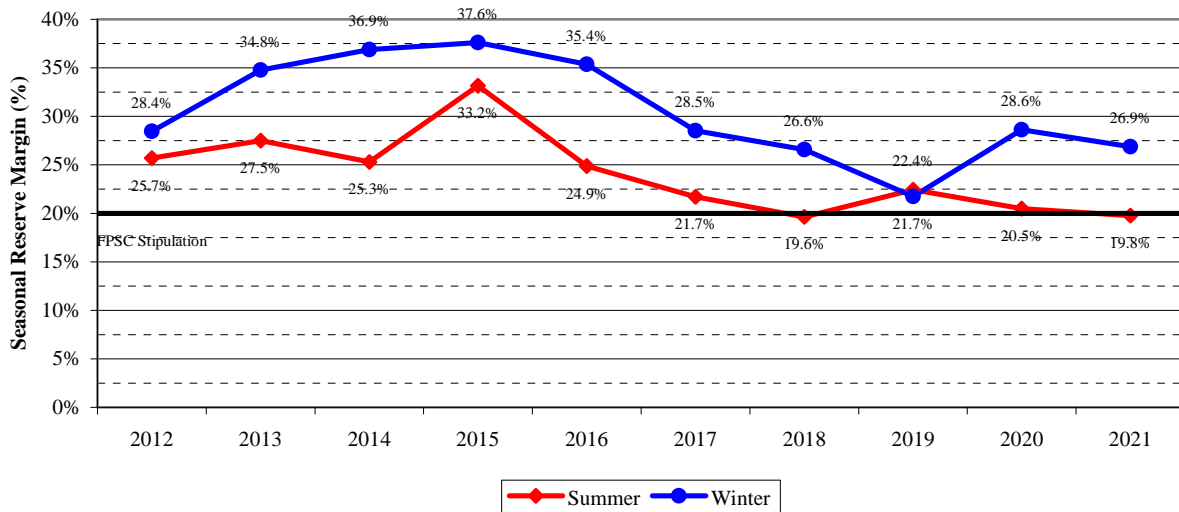


Source: PEF 2009 - 2012 TYSPs

Reserve Margin Requirement

As mentioned in the Statewide Perspective, PEF maintains a minimum 20 percent reserve margin for planning purposes based on a stipulation approved by the Commission. PEF Figure 3 displays the projected reserve margin for PEF through the planning period for both seasonal peaks. As shown in the figure, summer peak demand would be the driving force for generation additions. The reserve margin shown below includes the cumulative impact of conservation and demand response on PEF's system demand. The delay of the Levy 1 nuclear unit and its decrease of the company's reserve margin in 2021 is included in the graph.

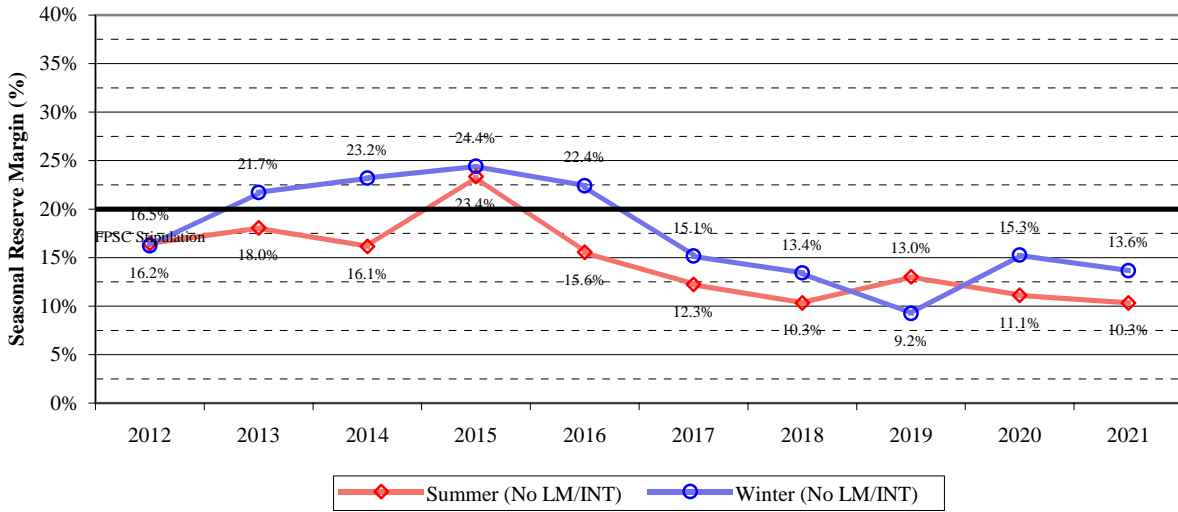
PEF Figure 3. Seasonal Reserve Margin (With LM/INT)



Source: PEF 2012 TYSP

Some concerns have been expressed regarding increased dependence upon demand response to meet customer peak demand. The concern is that interruptible load and load management programs are voluntary, and that customers may elect to opt-out of an existing program if the utility interrupted service too frequently. PEF Figure 4 shows the impact of excluding demand response programs from meeting customer demand, which causes the reserve margin to fall below both the company's stipulated 20 percent reserve margin and the FRCC Region's 15 percent planning margin.

PEF Figure 4. Seasonal Reserve Margin (Without LM/INT)

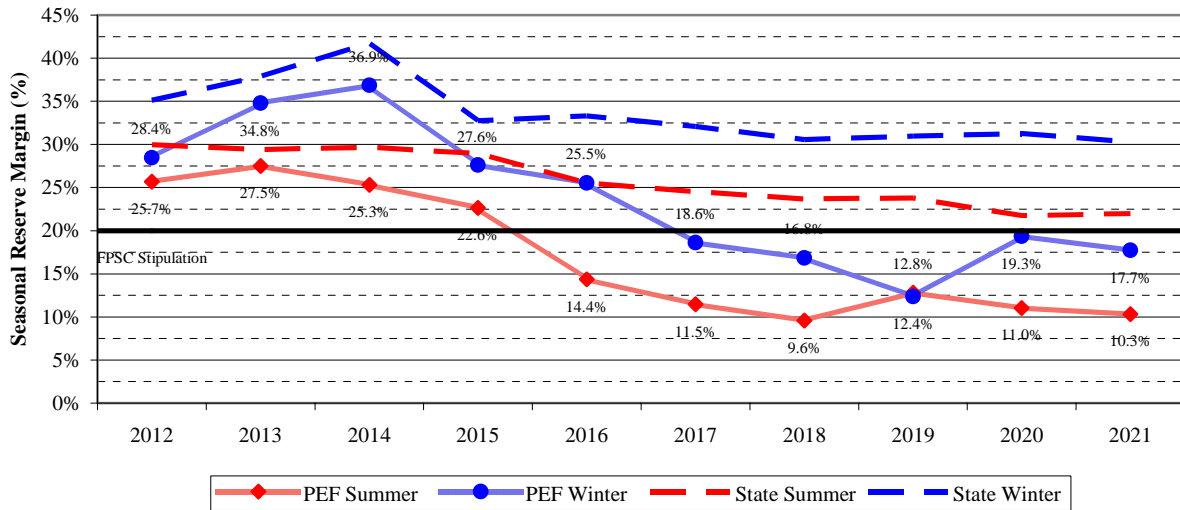


Source: PEF 2012 TYSP

Crystal River 3 Outage

The CR3 nuclear unit has been offline since 2009 due to a concrete delamination experience during a steam generator replacement project. Currently PEF anticipates CR3 returning to service in November 2014, but at this time the decision to repair or retire the unit has not been decided. PEF Figure 5 illustrates the reliability impact of not returning CR3 to service in 2014 and assuming no other changes to PEF’s available generation. As shown, PEF would fall below its 20 percent reserve requirement as early as the summer of 2016, and falling to a minimum reserve margin of 9.6 percent for the 2018 summer peak. In the event CR3 is retired or its return to service delayed past 2014, PEF must seek additional firm capacity to meet its reserve requirements, which may be from purchased power contracts, acceleration of currently planned units, and/or new generating units. While the loss of capacity associated with CR3 has a significant impact on PEF’s system, the statewide reserve margin appears adequate for possible purchased power agreements.

PEF Figure 5. Seasonal Reserve Margin With Potential Unit Retirements / Delays (With LM/INT)

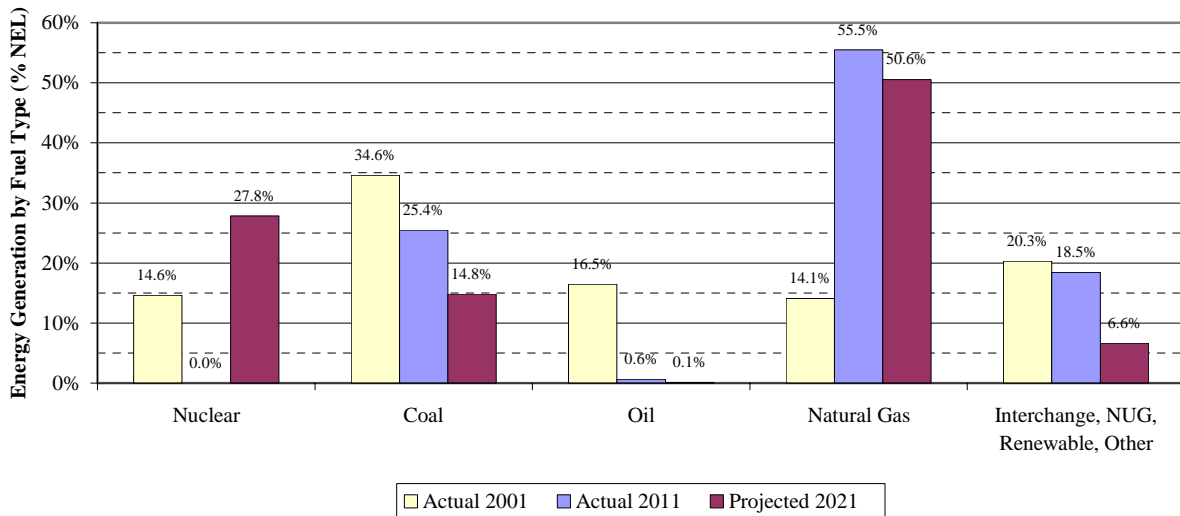


Source: PEF 2012 TYSP, Responses to Staff Data Request

Fuel Diversity

PEF Figure 6 shows PEF’s historic fuel mix for 2001 and 2011, and the projected fuel mix for 2021. PEF’s primary generation fuel is natural gas, which has increased from approximately 14 percent in 2001, to over 55 percent in 2011. Natural gas is projected to remain the main system fuel, but decline somewhat to 50.6 percent of net energy for load by 2021.

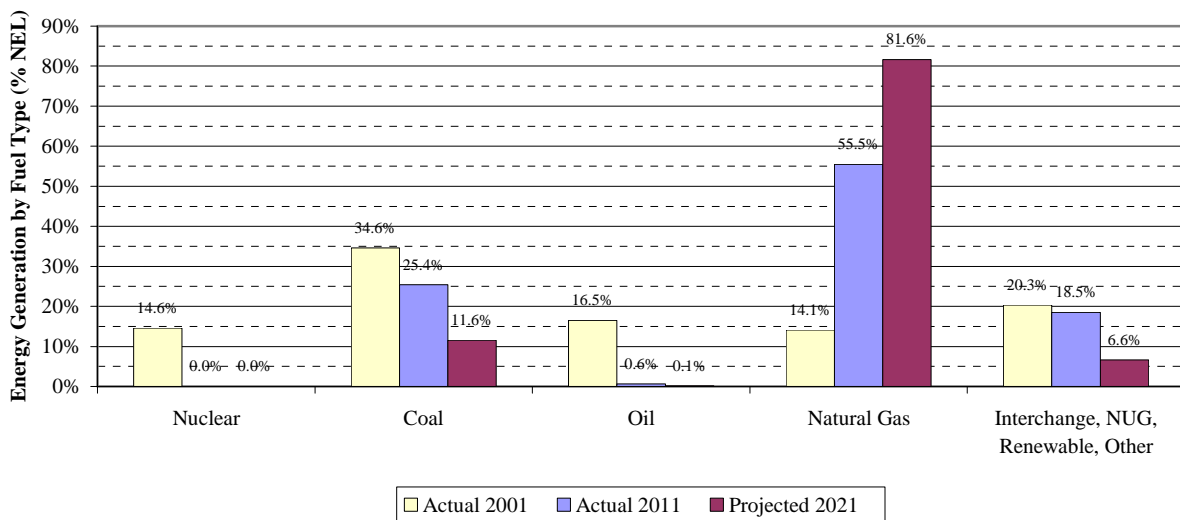
PEF Figure 6. Net Energy for Load by Fuel Type



Source: PEF 2002 and 2012 TYSPs

The decline in natural gas usage is primarily the result of an increase in nuclear generation from the inclusion of the now delayed Levy 1 nuclear unit and the return to service of CR3. While usage of coal for generation is expected to decline, this does not take into account the potential impact of retirements due to new environmental compliance requirements. During the 2012 TYSP workshop, PEF’s Crystal River 1 and 2, both coal-fired units, were identified by the Sierra Club/Earthjustice as facing challenges if new emissions control equipment was required. If the projected generation from these nuclear and coal units is displaced by natural gas, it would have the net effect of increasing natural gas’ share of PEF’s electric generation to 81.6 percent by 2021, as shown in PEF Figure 7 below.

PEF Figure 7. Net Energy for Load by Fuel Type with Displaced Generation



Source: PEF 2002 and 2012 TYSPs, Responses to Staff Data Requests

Generation Additions

PEF’s 2012 TYSP includes three generation additions, one of which has been delayed. The first is the uprate of the CR3 nuclear unit, which is subject to the uncertainties discussed above. The second is an unsited 767 MW combined cycle unit, scheduled to begin commercial operation in 2019. The last unit, the Levy 1 nuclear unit, has been delayed outside of the TYSP planning horizon. These are summarized in PEF Table 1.

PEF Table 1. Planned Generation Additions

| Generating Unit Name | Summer Capacity (MW) | Certification Dates (if Applicable) | | In-Service Date |
|--------------------------------------|----------------------|-------------------------------------|----------------|-----------------|
| | | Need Approved (Commission) | PPSA Certified | |
| Nuclear Unit Upgrades | | | | |
| Crystal River 3 Upgrade | 154 | 2/2007 | 8/2008 | 11/2014 |
| Combined Cycle Unit Additions | | | | |
| Unknown | 767 | - | - | 6/2019 |
| Nuclear Unit Additions | | | | |
| Levy 1* | 1092 | 5/2008 | 8/2009 | 6/2024 |
| Levy 2* | 1092 | 5/2008 | 8/2009 | 6/2025 |

* These units are outside of the 2012-2021 planning period
 Source: PEF 2012 TYSP

TAMPA ELECTRIC COMPANY (TECO)

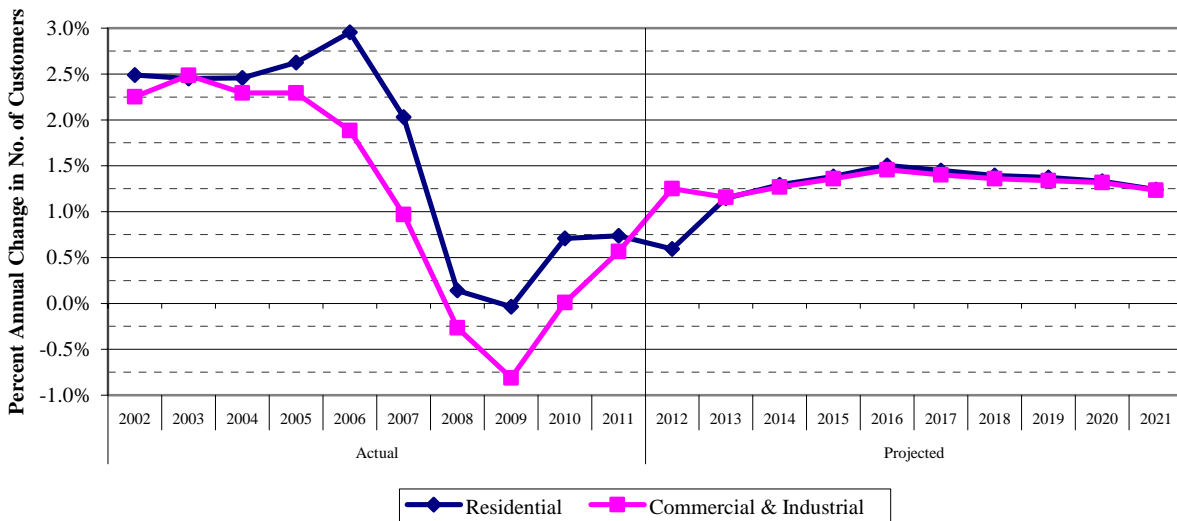
TECO is an investor-owned electric utility, and Florida’s third largest TYSP utility. The utility’s service territory is within the FRCC region, and consists primarily of the Tampa metropolitan area. As TECO is an IOU, the Commission has regulatory authority over all aspects of operations, including rates and safety.

In 2011, TECO had an average of 675,799 customers, and had a total net energy for load of 19,325 GWh, approximately 8.1 percent of the NEL generated in the state last year.

Peak Demand and Energy Forecasts

TECO Figure 1 illustrates the company’s actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth for 2012 through 2021. Customer growth is anticipated to stay relatively stable over the planning period, with an average annual growth rate of 1.34 percent. This compares with the actual rate of 2.45 percent for the period 2002 through 2007.

TECO Figure 1. Annual Customer Growth Rate by Customer Class



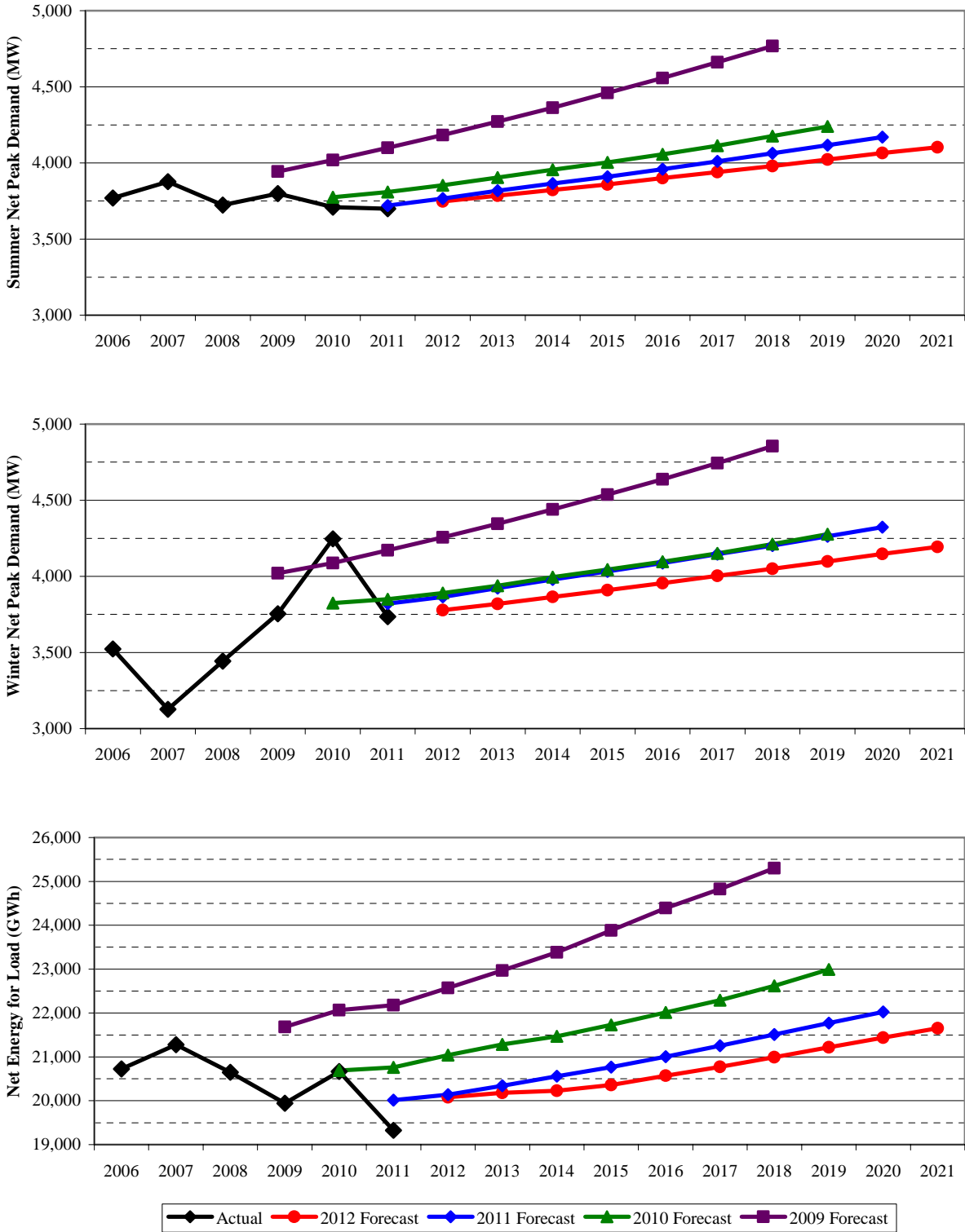
Source: TECO 2012 TYSP

The following three graphs in TECO Figure 2 show TECO’s historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current year and three previous forecast years. These figures show that the current forecast is lower than the 2011 forecast values for both seasons of peak demand and NEL.

Analysis of TECO’s historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that TECO’s average forecast error is 13.07 percent. This value indicates that the company tends to over-forecast its retail energy sales by 13.07 percent, which is

unfavorable when compared to the average forecast error for all eleven of the TYSP utilities, which was 11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

TECO Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts

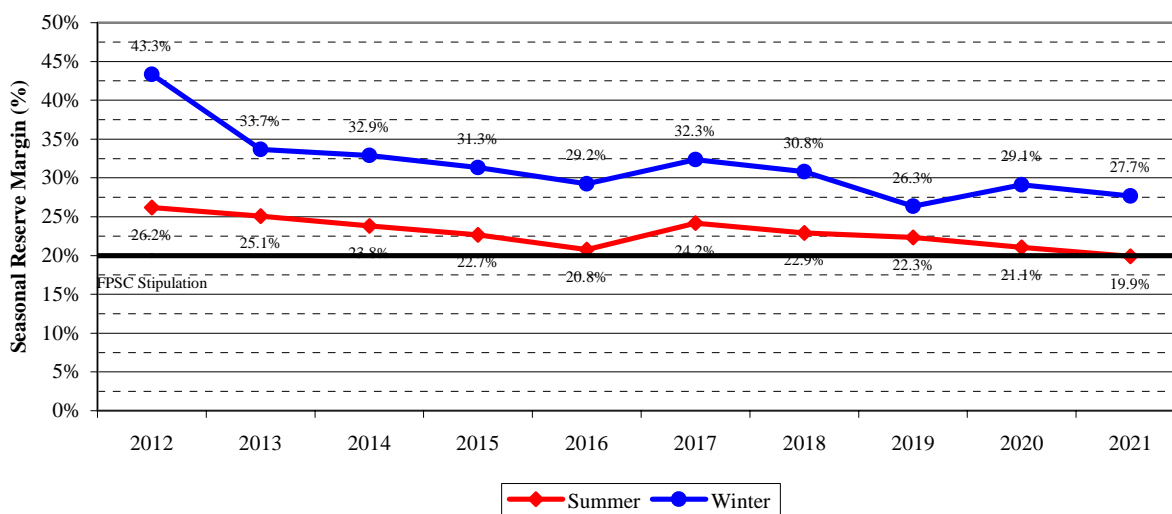


Source: TECO 2009 - 2012 TYSPs

Reserve Margin Requirement

As mentioned in the Statewide Perspective, TECO maintains a minimum 20 percent reserve margin for planning purposes based on a stipulation approved by the Commission. TECO Figure 3 displays the projected reserve margin for TECO through the planning period for both seasonal peaks. As shown in the figure, summer peak demand would be the driving force for generation additions. The reserve margin shown below includes the cumulative impact of conservation and demand response on TECO’s system demand.

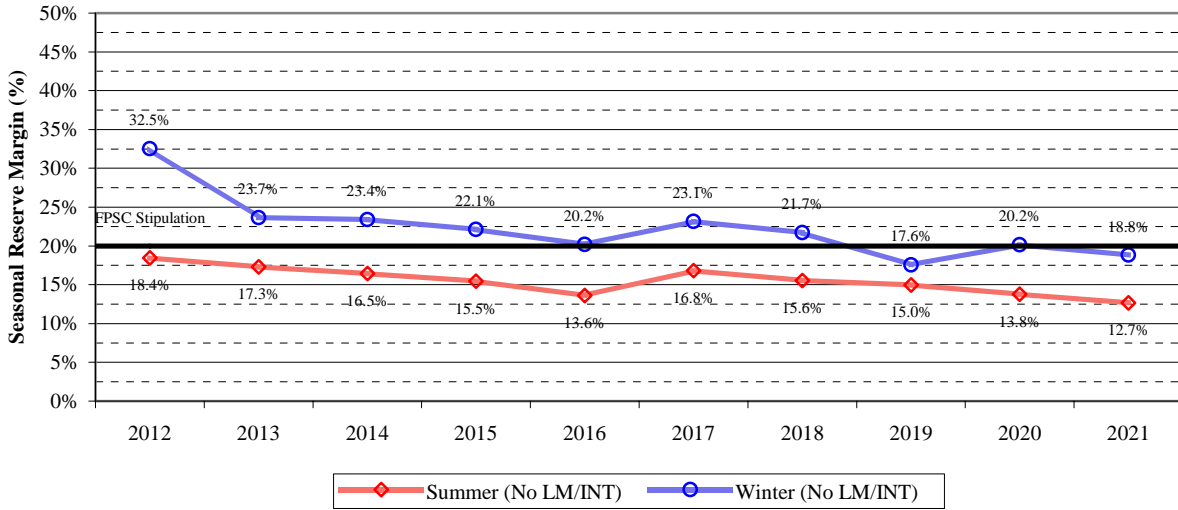
TECO Figure 3. Seasonal Reserve Margin (With LM/INT)



Source: TECO 2012 TYSP

TECO is the only IOU that currently maintains a minimum supply-side contribution to reserve margin, set at 7 percent. As with other utilities, the concern is that interruptible load and load management programs are voluntary, and that customers may elect to opt-out of an existing program if the utility interrupted service too frequently. TECO Figure 4 shows the impact of excluding demand response programs from meeting customer demand, which causes the reserve margin to fall below the company’s stipulated 20 percent reserve margin. Even without demand response, TECO exceeds its own supply-side requirements, and generally maintains the FRCC Region’s 15 percent planning margin, excluding three summer periods where it falls as low as 12.7 percent in 2021.

TECO Figure 4. Seasonal Reserve Margin (Without LM/INT)

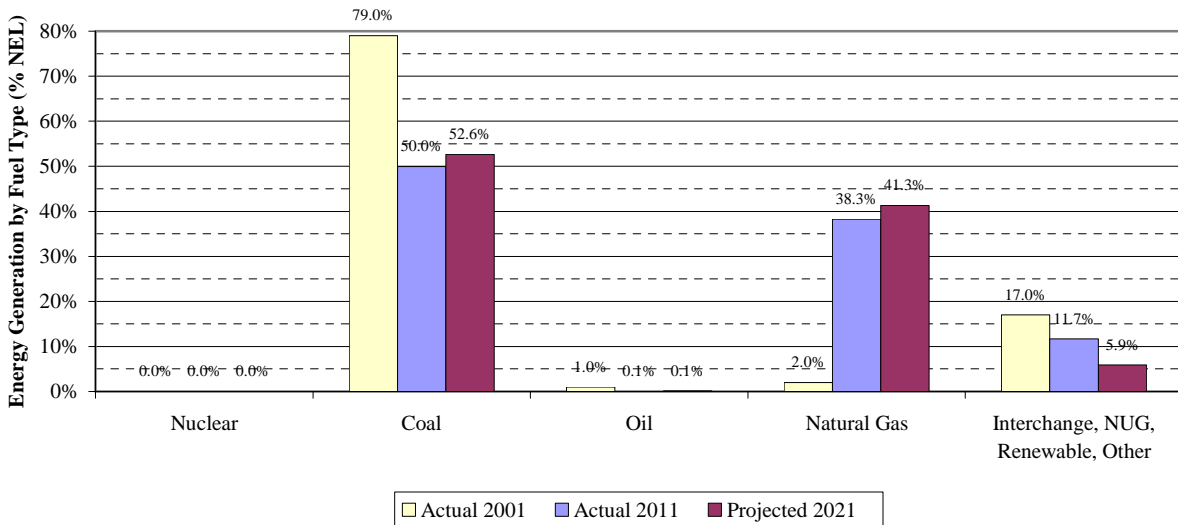


Source: TECO 2012 TYSP

Fuel Diversity

TECO Figure 5 shows TECO’s historic fuel mix for 2001 and 2011, and the projected fuel mix for 2021. TECO’s primary generation fuel is coal, although this has decreased from nearly 80 percent of system energy in 2001, to only 50 percent in 2011. A slight rebound is anticipated by the end of the planning period, with 52.6 percent of energy from coal-fired generation. Natural gas has increased from a minor fuel on the system, at 2.0 percent in 2001, to the secondary fuel at 38.3 percent in 2011, is also expected to make gains, increasing to 41.3 percent by the end of the planning period.

TECO Figure 5. Net Energy for Load by Fuel Type



Source: TECO 2002 and 2012 TYSPs

Generation Additions

TECO's 2012 TYSP includes two unit additions, including a conversion of its existing Polk facility to combined cycle operation in 2017, and the addition of a single 149 MW combustion turbine in 2019. This represents a reduction from the 2011 TYSP, where TECO included 8 smaller combustion turbines in addition to the Polk CC conversion. TECO's planned additions are summarized in TECO Table 1 below. TECO has recently issued a Request for Proposals (RFP) for its planned combined cycle conversion of several existing simple cycle combustion turbines at the Polk Power Station, and filed for a need determination on September 12, 2012.

TECO Table 1. Planned Generation Additions

| Generating Unit Name | Summer Capacity (MW) | Certification Dates (if Applicable) | | In-Service Date |
|--|----------------------|-------------------------------------|----------------|-----------------|
| | | Need Approved (Commission) | PPSA Certified | |
| Combined Cycle Unit Additions | | | | |
| Polk 2-5 CC | 1,063 | - | - | 01/2017 |
| Combustion Turbine Unit Additions | | | | |
| Future CT 1 | 149 | N/A | N/A | 05/2019 |

Source: TECO 2012 TYSP

GULF POWER COMPANY (GULF)

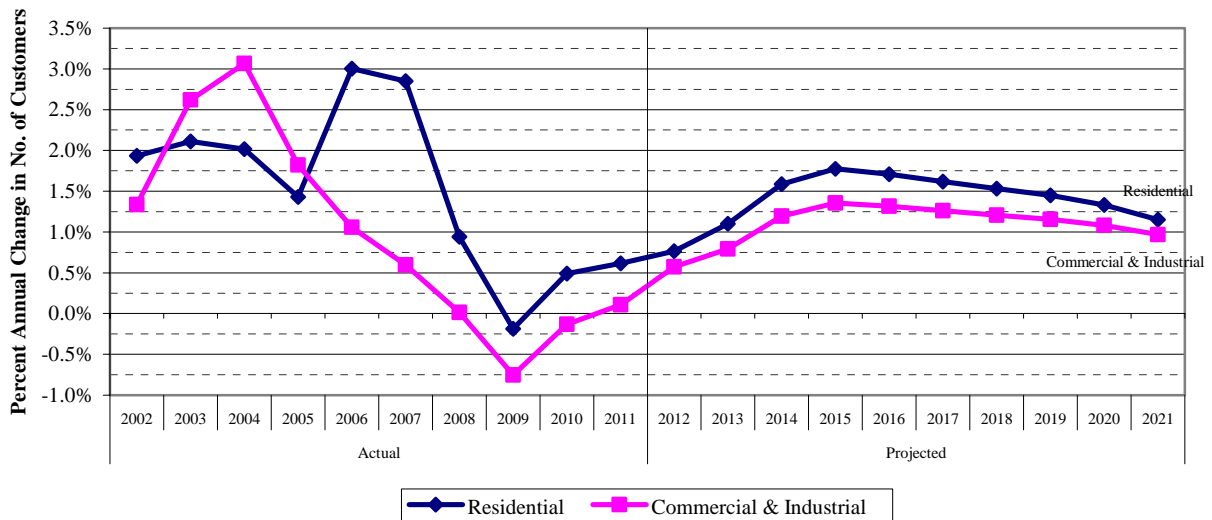
GULF is the smallest investor-owned generating utility, and the sixth largest TYSP utility. The utility’s service territory includes western Florida, and is the only TYSP utility outside of the FRCC region. Gulf Power, along with Alabama Power, Georgia Power, and Mississippi Power, are members of the Southern Company electric system. GULF therefore has SERC as its regional reliability entity. Because GULF plans and operates its system in conjunction with the other Southern Company utilities, not all of the energy generated by the GULF units is consumed in Florida. As GULF is an IOU, the Commission has regulatory authority over all aspects of operations, including rates and safety.

In 2011, GULF had an average of 432,403 customers, and had a total net energy for load of 12,086 GWh, approximately 5.1 percent of the NEL generated in the state last year.

Peak Demand and Energy Forecasts

GULF Figure 1 illustrates the company’s actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth for 2012 through 2021. As shown below, GULF anticipates annual customer growth rates to climb until approximately 2015, and then begin to decline slightly but remain positive till the end of the planning period, with an average annual growth rate of 1.43 percent. This compares to the actual rate of 2.22 percent for the period 2002 through 2007.

GULF Figure 1. Annual Customer Growth Rate by Customer Class



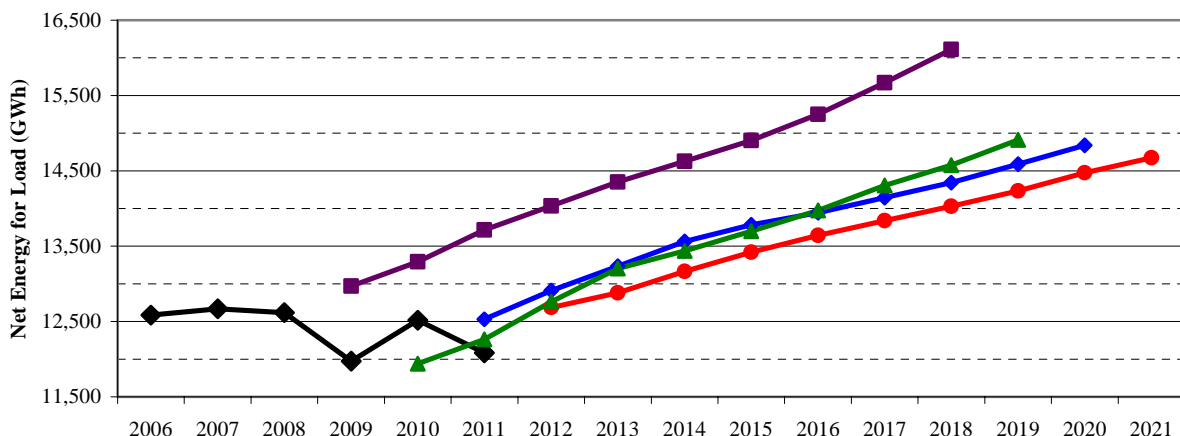
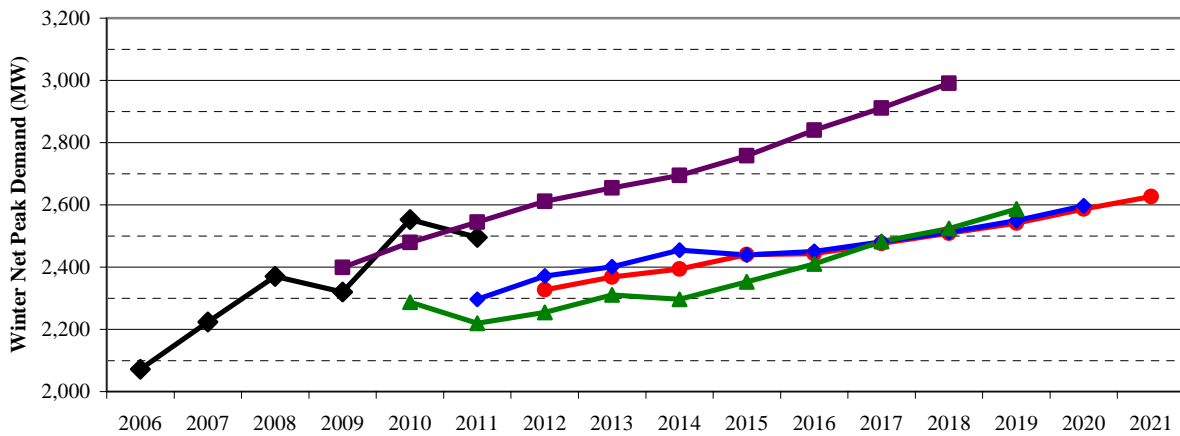
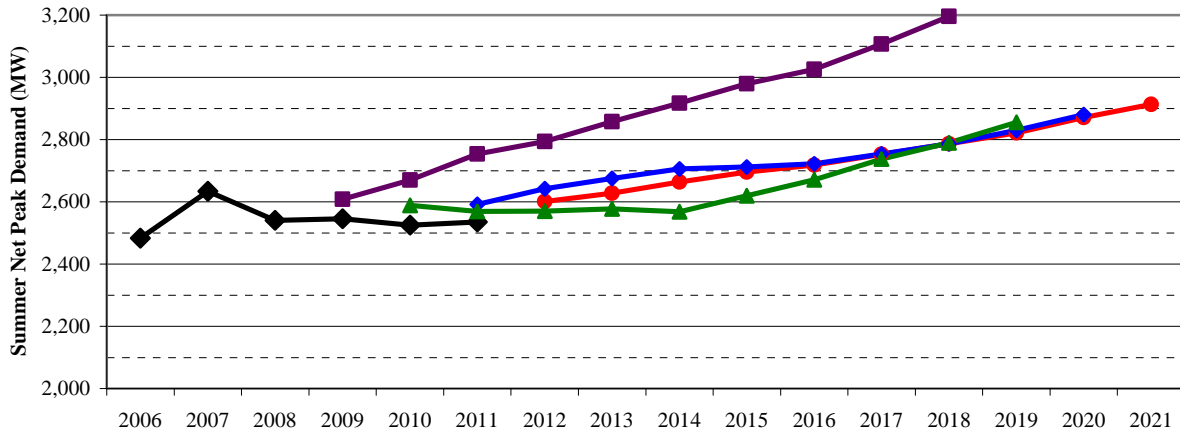
Source: GULF 2012 TYSP

The following three graphs in GULF Figure 2 show GULF’s historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current

year and three previous forecast years. These figures show that the current forecast is similar but slightly below last year's forecast in both seasonal peak demand and NEL.

Analysis of GULF's historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that GULF's average forecast error is 5.44 percent. This value indicates that the company tends to over-forecast its retail energy sales by 5.44 percent, the lowest of the TYSP Utilities. GULF's forecast error is favorable when compared to the average forecast error for all eleven of the TYSP utilities, which was 11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

GULF Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts



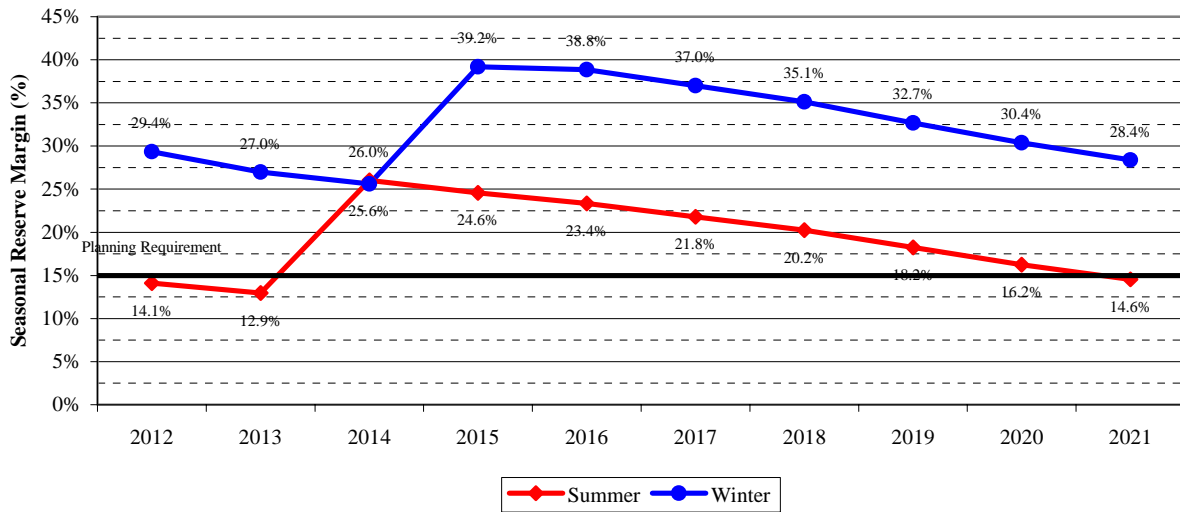
Actual
 2012 Forecast
 2011 Forecast
 2010 Forecast
 2009 Forecast

Source: GULF 2009 - 2012 TYSPs

Reserve Margin Requirement

GULF is not within the FRCC region, and therefore not subject to its minimum reserve margin requirements. GULF operates within SERC, and as part of the Southern Power Pool has a planning reserve margin of 15 percent after 2015. The company's projected reserve margin for summer and winter peak demand is shown below in GULF Figure 3. The reserve margin shown below includes the cumulative impact of conservation, but as GULF does not administer any active demand response programs, there are no non-firm load components in its reserve margin.

GULF Figure 3. Seasonal Reserve Margin

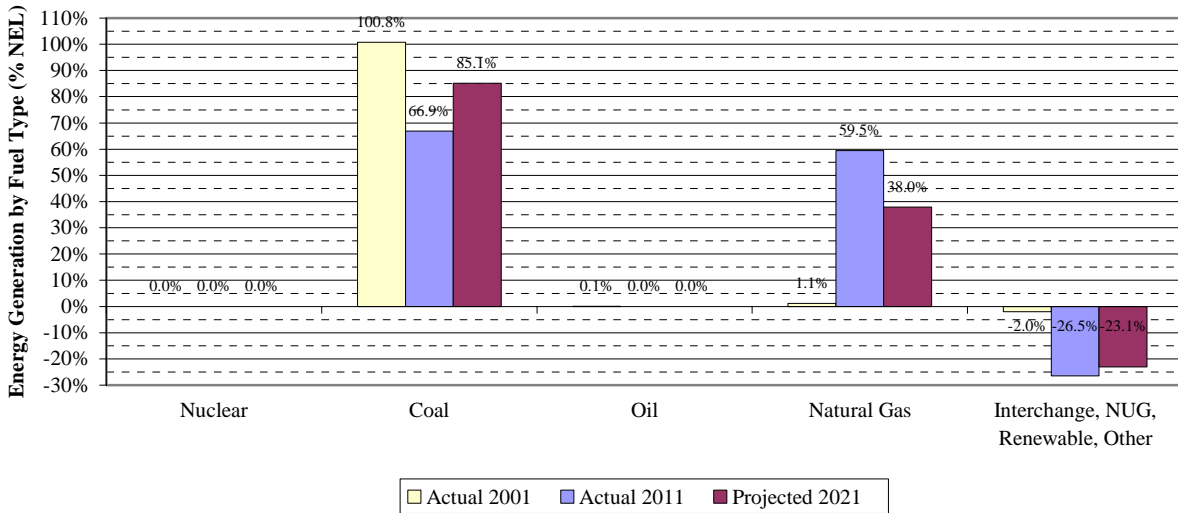


Source: GULF 2012 TYSP

Fuel Diversity

GULF Figure 4 shows GULF's historic fuel mix for 2001 and 2011, and the projected fuel mix for 2021. The negative value for interchange/other category of generation represents power sales, as GULF generates more energy than its native customers consume. GULF's primary generation fuel has been coal, with 66.9 percent of native load served by it in 2011, down from 100.8 percent in 2001. This is anticipated to rebound by the end of the planning period, with a projected 85.1 percent of native NEL from coal in 2021. The main source of reduction in coal generation comes from natural gas, which was used to produce 59.5 of native NEL in 2011, and is projected to decline to 38.0 percent by 2021.

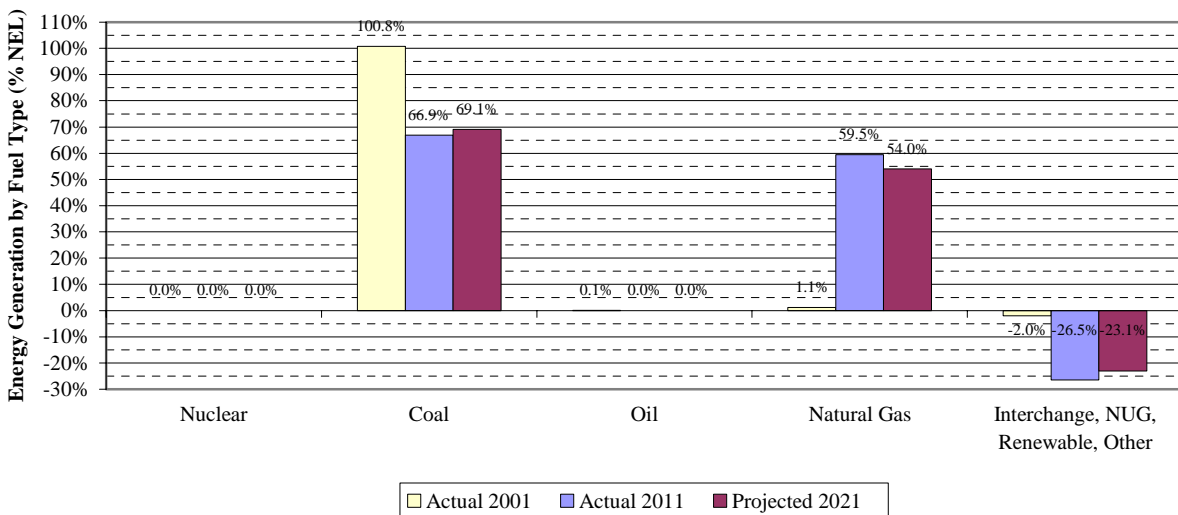
GULF Figure 4. Net Energy for Load by Fuel Type



Source: GULF 2002 and 2012 TYSPs

While usage of coal for generation is expected to increase, this does not take into account the potential impact of retirements due to new environmental compliance requirements. During the 2012 TYSP workshop, GULF’s Lansing Smith 1 and 2, both coal-fired units, were identified by the Sierra Club/Earthjustice as facing challenges if new emissions control equipment was required. If the projected generation from these coal units is displaced by natural gas, it would have the net effect of increasing natural gas’ share of GULF’s electric generation to 54 percent by 2021, while reducing the increase in coal generation to only 69.1 percent, as illustrated in GULF Figure 5 below.

GULF Figure 5. Net Energy for Load by Fuel Type with Displaced Generation



Source: GULF 2002 and 2012 TYSPs, Responses to Staff Data Requests

Generation Additions

GULF has no planned generation additions over the planning horizon. This is consistent with the company's 2011 TYSP, which also included no new generating units through 2020.

FLORIDA MUNICIPAL POWER AGENCY (FMPA)

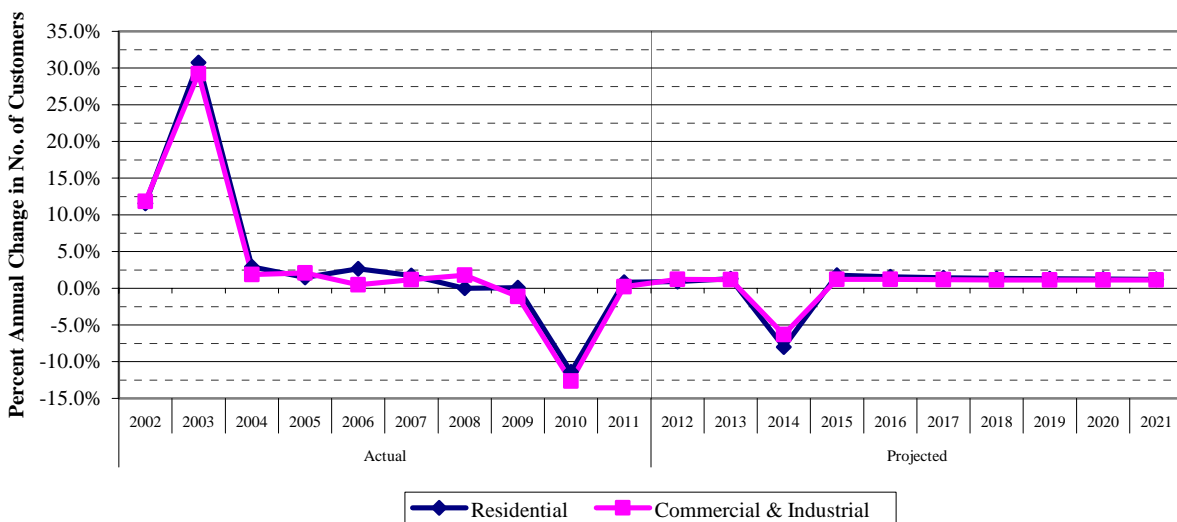
FMPA is a governmental wholesale power company owned by 30 municipal electric utilities located throughout the State of Florida. It is collectively the state’s eighth largest TYSP utility. FMPA facilitates opportunities for its members to participate in power supply projects developed by Florida utilities and other producers, and provides economies of scale in power generation and related services. As FMPA is a municipal utility, the Commission’s regulatory authority is limited to safety, rate structure, territorial boundaries, bulk power supply, operations, and planning. FMPA’s direct responsibility for power supply is with the All-Requirements Power Supply Project (ARP), where FMPA plans and supplies all of the power requirements for 14 of its participating utilities. The values for capacity in the following figures corresponds to the ARP.

In 2011, FMPA had an average of 262,659 customers, and had a total net energy for load of 6,209 GWh, approximately 2.6 percent of the NEL generated in the state last year.

Peak Demand and Energy Forecasts

FMPA Figure 1 illustrates the company’s actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth during for 2012 through 2021. The drop in the rate of growth for 2010 is due to the City of Vero Beach leaving the ARP, and the smaller drop in 2014 is the expected result of the departure of the City of Lake Worth from the ARP. These utilities will remain as members of FMPA, but are exercising an option to modify their memberships from a full requirements basis to a partial requirements basis. These changes in membership status means that the ARP will no longer utilize these participants’ generating resources, if any exist.

FMPA Figure 1. Annual Customer Growth Rate by Customer Class

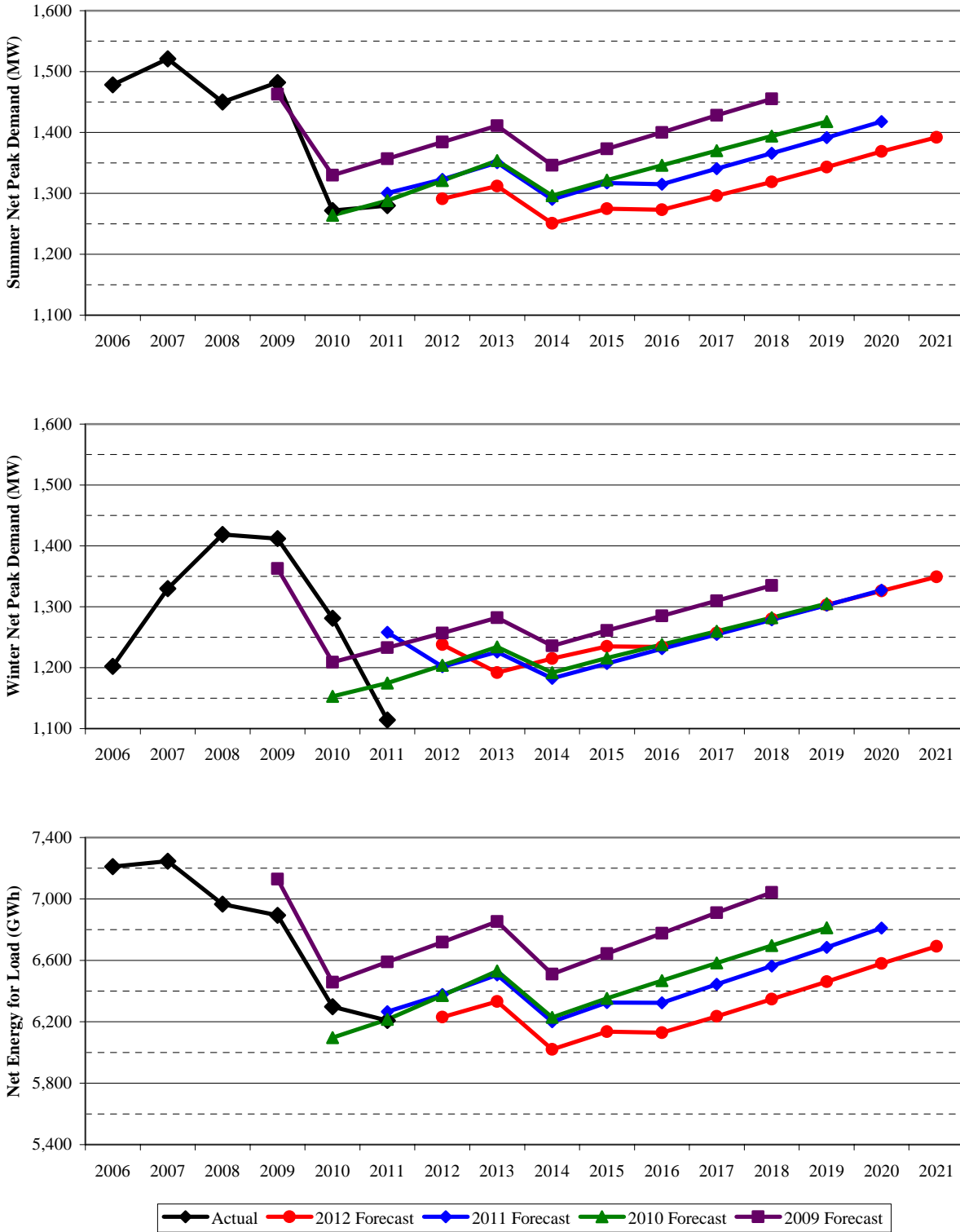


Source: FMPA 2012 TYSP

The following three graphs in FMPA Figure 2 show FMPA's historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current year and three previous forecast years. These figures show that the current forecast is below last year's in terms of summer peak demand and NEL, but winter peak demand is similar.

Analysis of FMPA's historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that FMPA's average forecast error is 11.81 percent. This value indicates that the company tends to over-forecast its retail energy sales by 11.81 percent, which is somewhat higher than the average forecast error for all eleven of the TYSP utilities, which was 11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

FMPA Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts

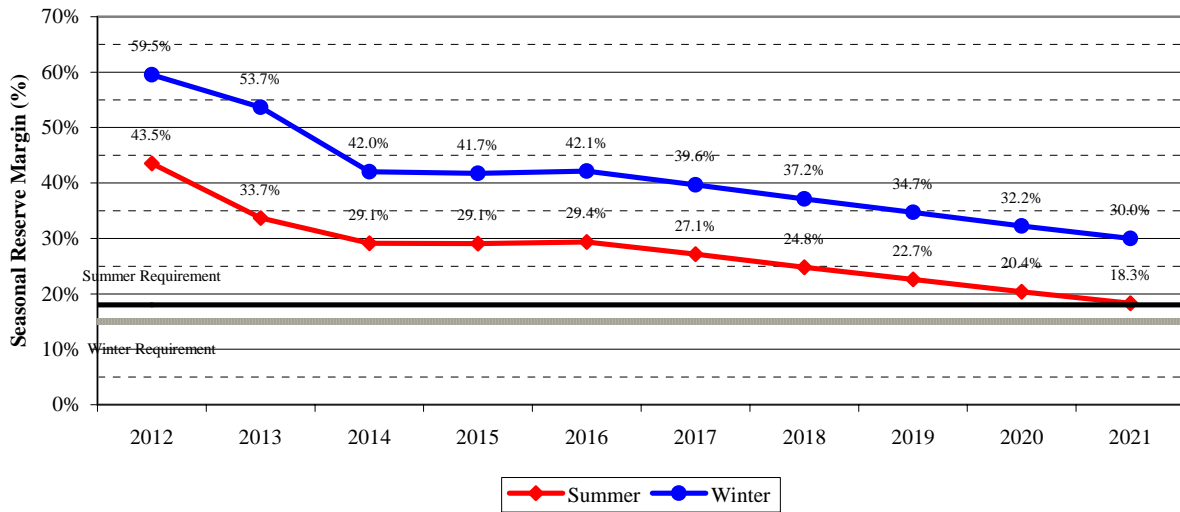


Source: FMPA 2009 - 2012 TYSPs

Reserve Margin Requirement

FMPA is required to maintain a minimum 15 percent reserve margin, pursuant to FRCC requirements. In addition, the utility uses a planning reserve margin of 18 percent for summer peak reserve margin planning. As can be seen in FMPA Figure 3 below, FMPA has ample reserves and its margin only begins to approach the 15 percent minimum in the last few years of the horizon. FMPA does not administer load management or interruptible load programs, and therefore has no non-firm load component in its reserve margin.

FMPA Figure 3. Seasonal Reserve Margin

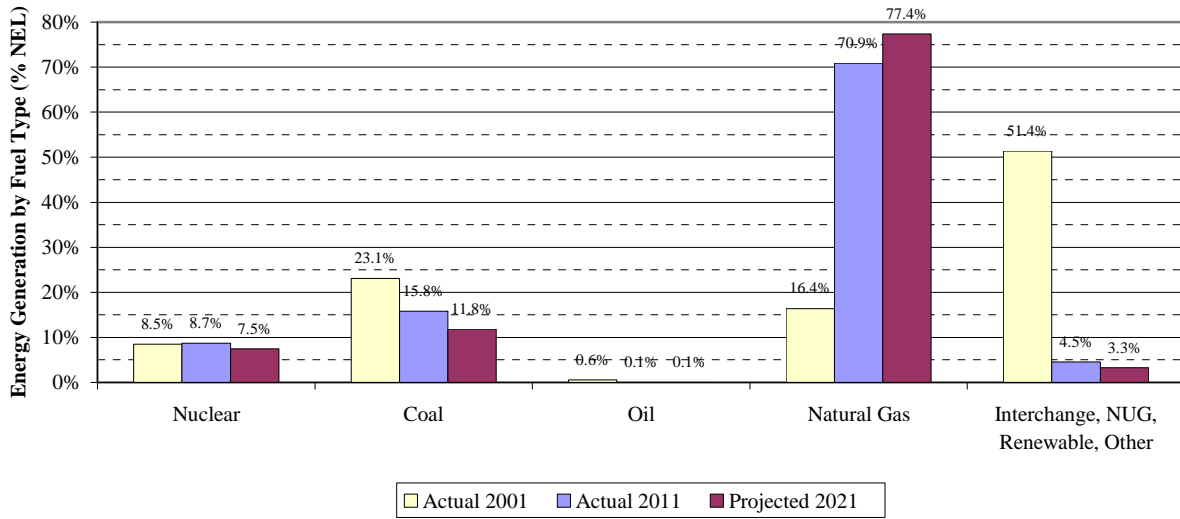


Source: FMPA 2012 TYSP

Fuel Diversity

FMPA Figure 4 displays the composition of FMPA's system in terms of energy generated. Again, natural gas has risen to become the system's primary fuel, increasing over 50 percent, from 16.4 percent in 2001 up to 70.9 percent in 2011. Natural gas is anticipated to increase somewhat to 77.4 percent in 2021, with further decreases in purchased power and coal generation.

FMPA Figure 4. Net Energy for Load by Fuel Type



Source: FMPA 2002 and 2012 TYSPs

Generation Additions

FMPA has no planned generation additions over the planning horizon. This is consistent with the company’s 2011 TYSP, which also included no new generating units through 2020.

GAINESVILLE REGIONAL UTILITIES (GRU)

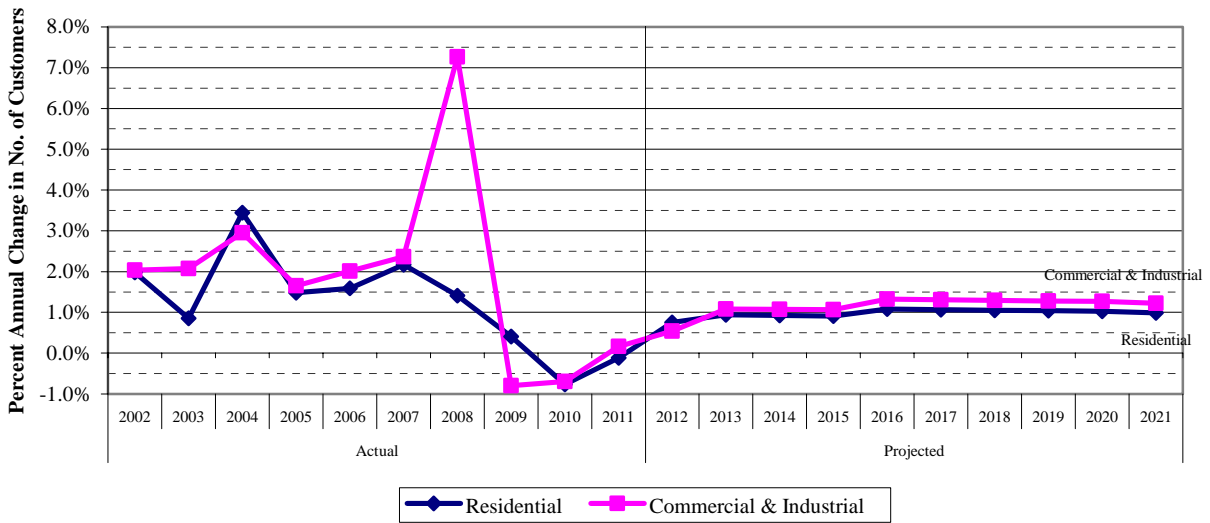
GRU is a municipal utility and the state’s smallest TYSP utility. The company’s service area is within the FRCC region, and includes the City of Gainesville and its surrounding urban area. GRU also provides wholesale power to the City of Alachua and Clay Electric Cooperative. As GRU is a municipal utility, the Commission’s regulatory authority is limited to safety, rate structure, territorial boundaries, bulk power supply, operations, and planning

In 2011, GRU had an average of 92,265 customers, and had a total net energy for load of 2,024 GWh, approximately 0.9 percent of the NEL generated in the state last year.

Peak Demand and Energy Forecasts

GRU Figure 1 illustrates the company’s actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth during for 2012 through 2021. GRU anticipates customer growth to remain steady through the end of the planning period, with an average annual growth rate of 1.03 percent. This compares with the actual rate of 1.94 percent for the period 2002 through 2007.

GRU Figure 1. Annual Customer Growth Rate by Customer Class



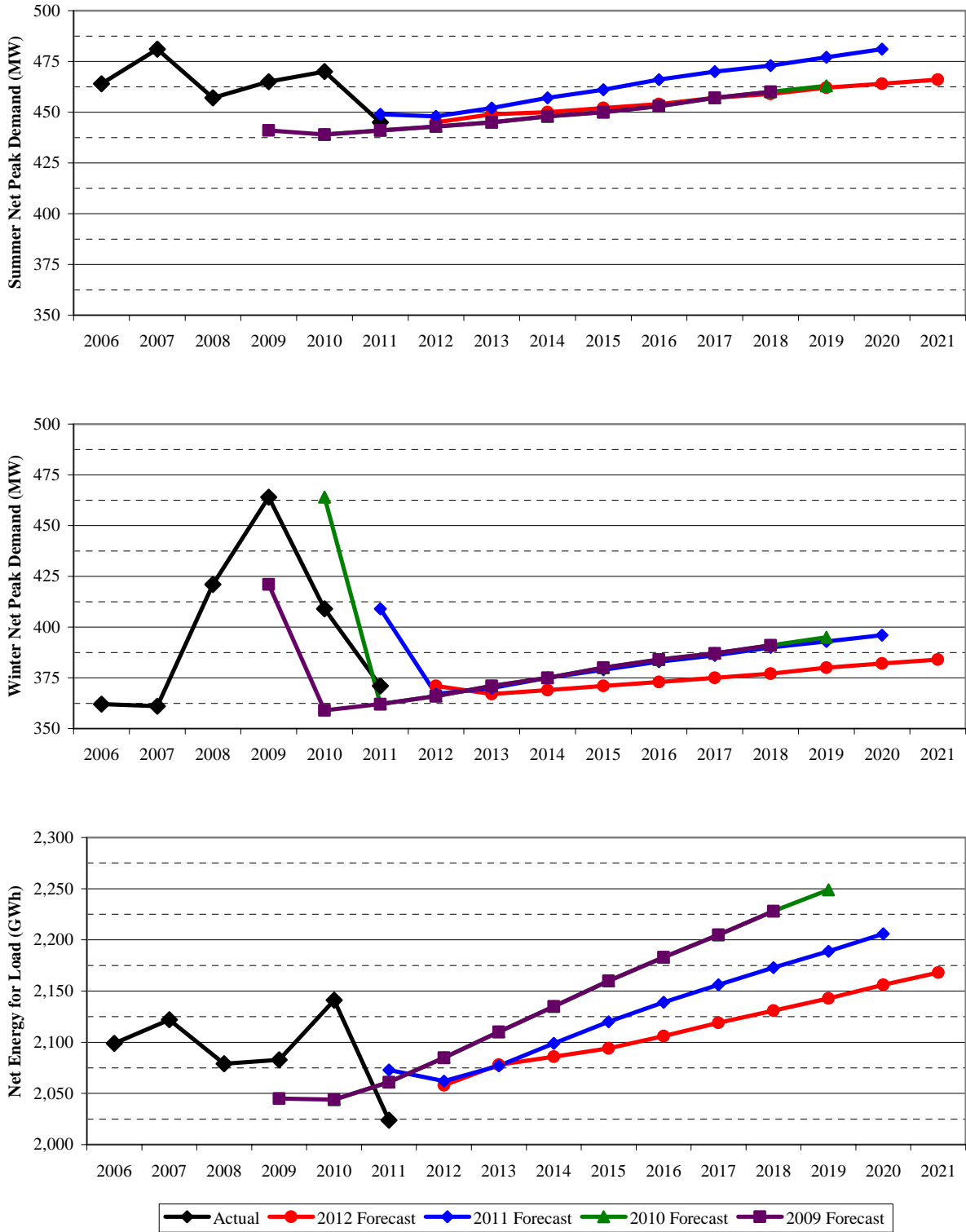
Source: GRU 2012 TYSP

The following three graphs in GRU Figure 2 show GRU’s historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current year and three previous forecast years. These figures show that the current forecast is below last year’s in both seasonal peak demand and NEL.

Analysis of GRU’s historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that GRU’s average forecast error is 11.40 percent. This value indicates

that the company tends to over-forecast its retail energy sales by 11.40 percent, which is approximately equivalent to the average forecast error for all eleven of the TYSP utilities, which was 11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

GRU Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts

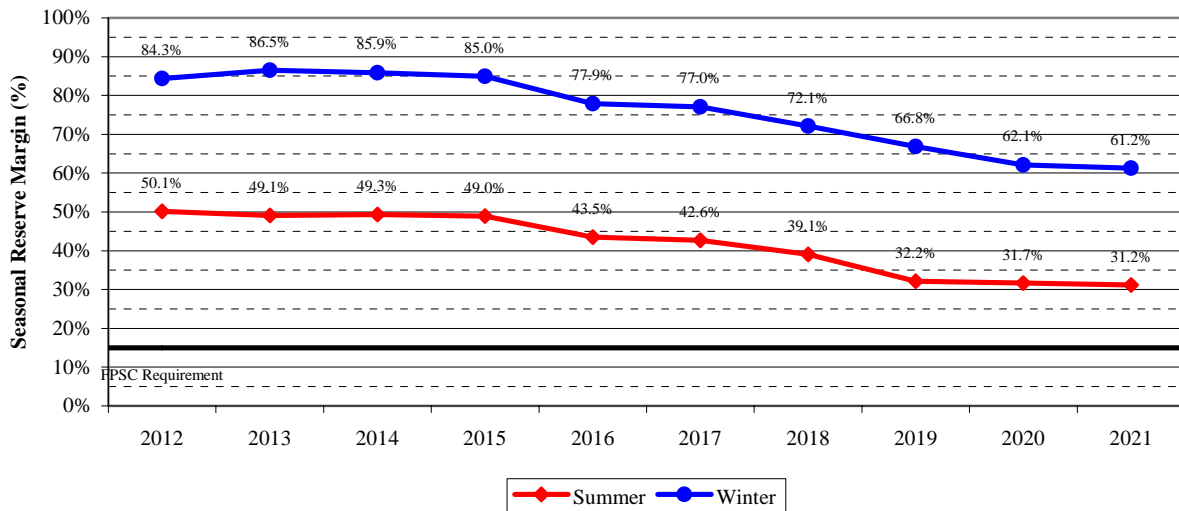


Source: GRU 2009 - 2012 TYSPs

Reserve Margin Requirement

Pursuant to FRCC requirements, GRU maintains a 15 percent reserve margin. As GRU Figure 3 clearly shows, GRU’s reserve margin is forecasted to remain well above the minimum level throughout the planning horizon for the summer and winter peak seasons. GRU does not have any active load management or interruptible load programs and therefore has no non-firm load component to its reserve margin.

GRU Figure 3. Seasonal Reserve Margin

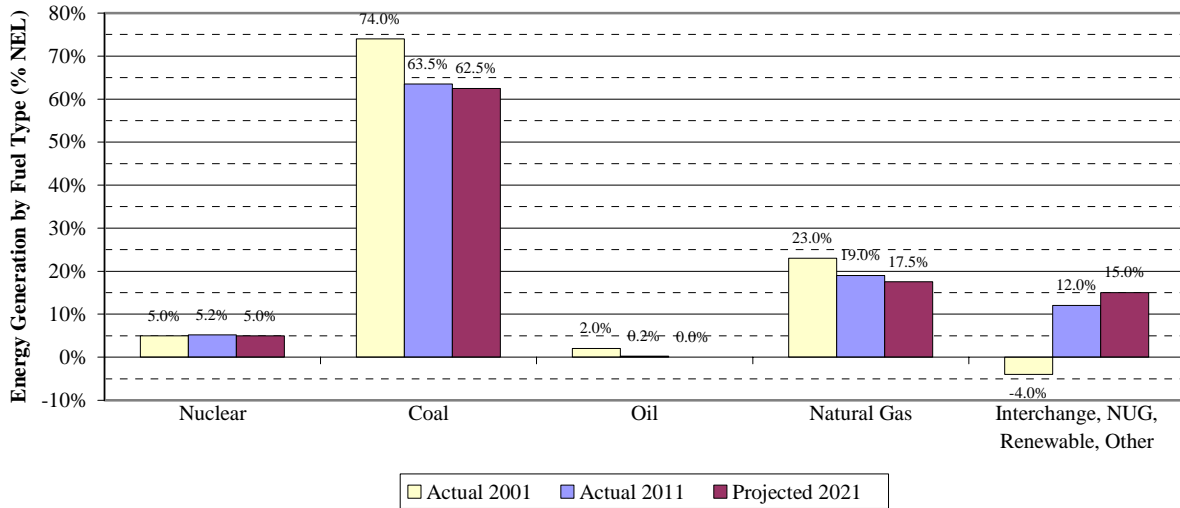


Source: GRU 2012 TYSP

Fuel Diversity

GRU Figure 4 displays the composition of GRU’s system in terms of energy generated. The company has historically relied upon coal generation, and it is projected to produce a majority of energy for load through the end of the planning period. Other energy sources include natural gas, nuclear, purchased power, and renewables. GRU anticipates a decline in both coal-fired and natural gas-fired generation, made up for by renewable purchased power contracts, especially a large biomass unit that the Commission authorized recently.

GRU Figure 4. Net Energy for Load by Fuel Type



Source: GRU 2012 TYSP

Generation Additions

GRU has no planned generation additions over the planning horizon. This is consistent with the company’s 2011 TYSP, which also included no new generating units through 2020.

JEA (FORMERLY JACKSONVILLE ELECTRIC AUTHORITY)

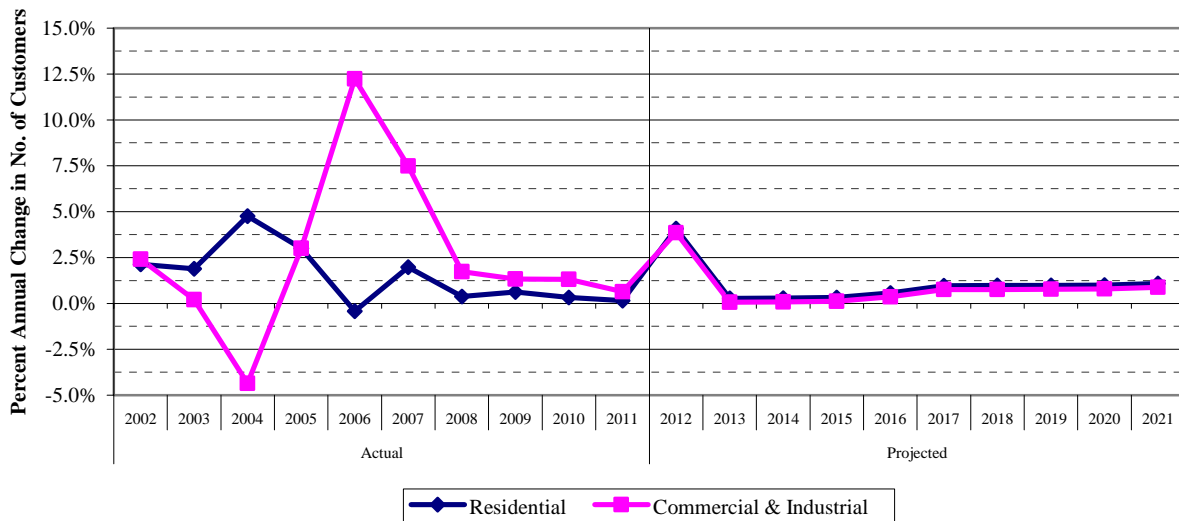
JEA is a municipal electric utility, and the state’s fifth largest TYSP utility, and is the largest generating municipal utility. JEA’s service territory is within the FRCC region, and includes all of Duval County as well as portions of Clay and St. Johns Counties. As JEA is a municipal utility, the Commission’s regulatory authority is limited to safety, rate structure, territorial boundaries, bulk power supply, operations, and planning

In 2011, JEA had an average of 416,278 customers, and had a total net energy for load of 12,980 GWh, approximately 5.5 percent of the NEL generated in the state last year.

Peak Demand and Energy Forecasts

JEA Figure 1 illustrates the company’s actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth for 2012 through 2021. Positive growth is anticipated over the entire planning period, with an average annual growth rate of 0.69 percent. This compares with the actual rate of 2.36 percent for the period 2002 through 2007.

JEA Figure 1. Annual Customer Growth Rate by Customer Class



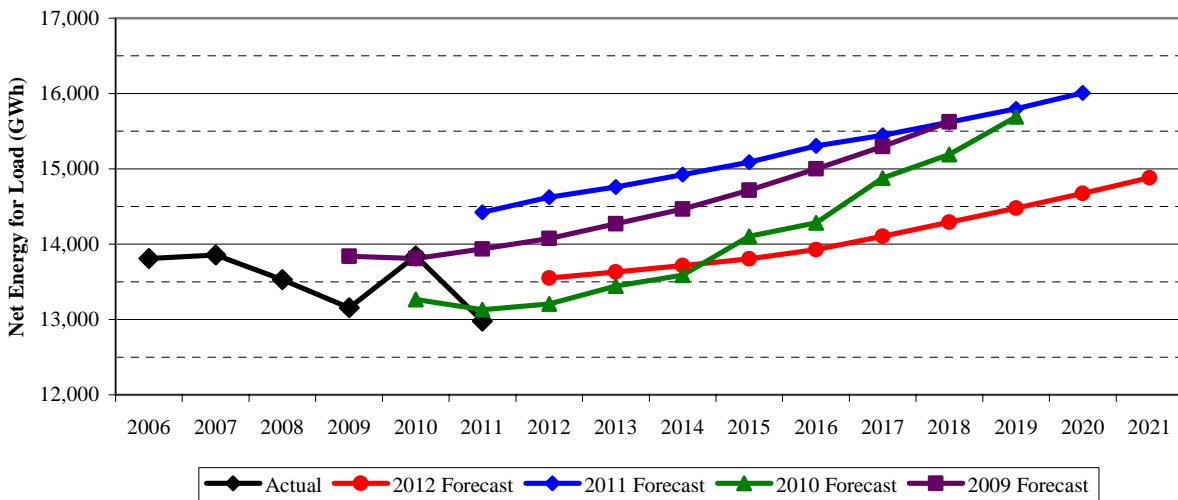
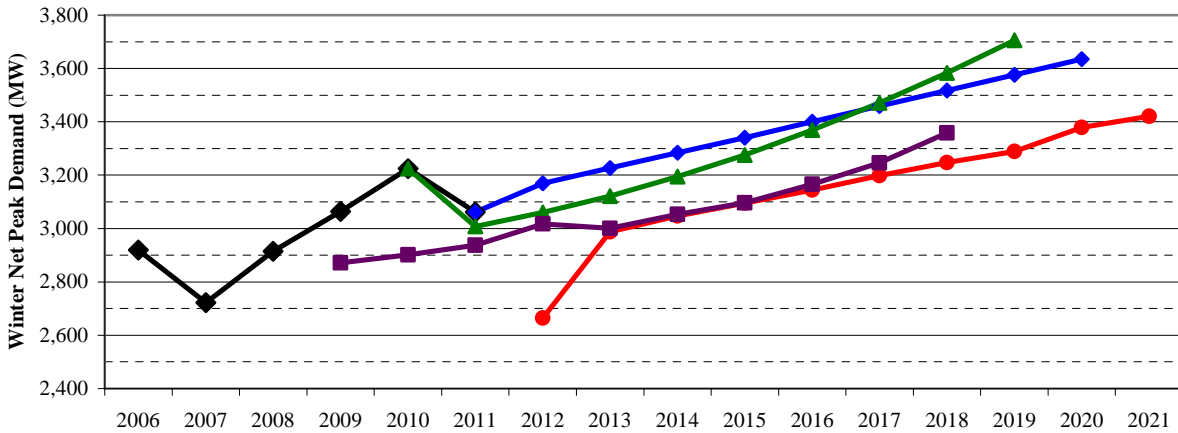
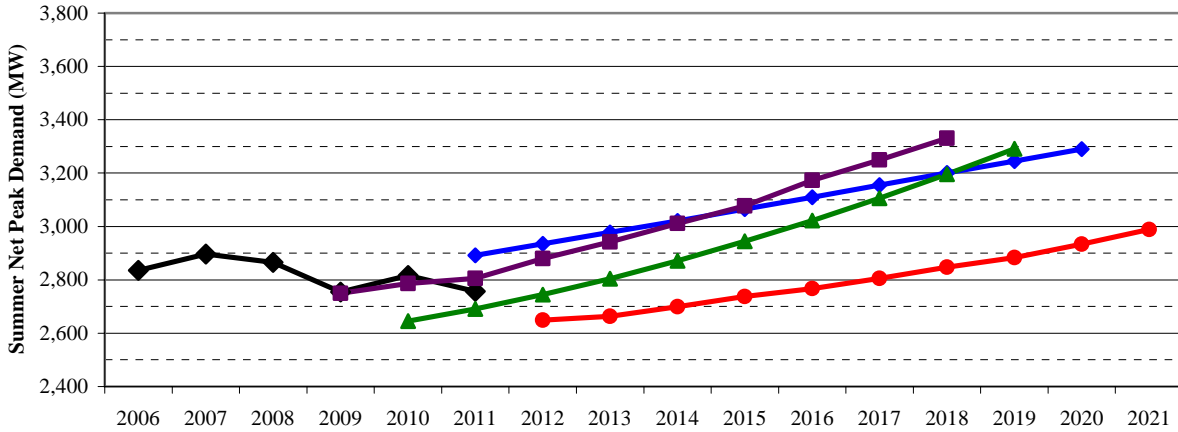
Source: JEA 2012 TYSP

The following three graphs in JEA Figure 2 show JEA’s historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current year and three previous forecast years. These figures show that the current forecast is below last year’s in both seasonal peak demand and NEL.

Analysis of JEA’s historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that JEA’s average forecast error is 12.72 percent. This value indicates that the company tends to over-forecast its retail energy sales by 12.72 percent, which is unfavorable

when compared to the average forecast error for all eleven of the TYSP utilities, which was 11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

JEA Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts



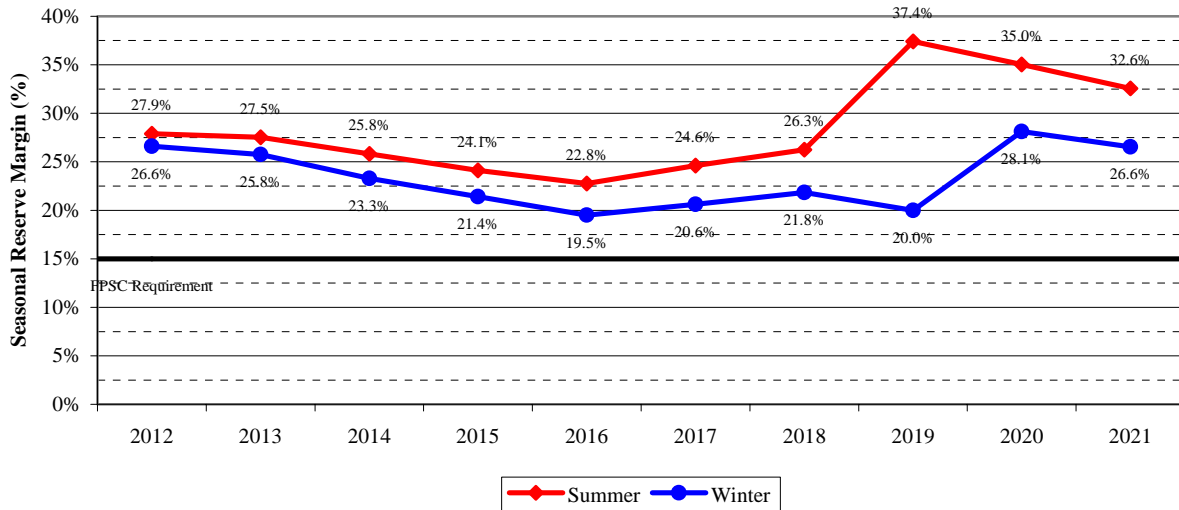
Actual
 2012 Forecast
 2011 Forecast
 2010 Forecast
 2009 Forecast

Source: JEA 2009 - 2012 TYSPs

Reserve Margin Requirement

JEA maintains a 15 percent reserve margin pursuant to FRCC requirements. JEA Figure 3 shows their projected reserve margin, which is sufficient for both summer and winter seasonal peaks.

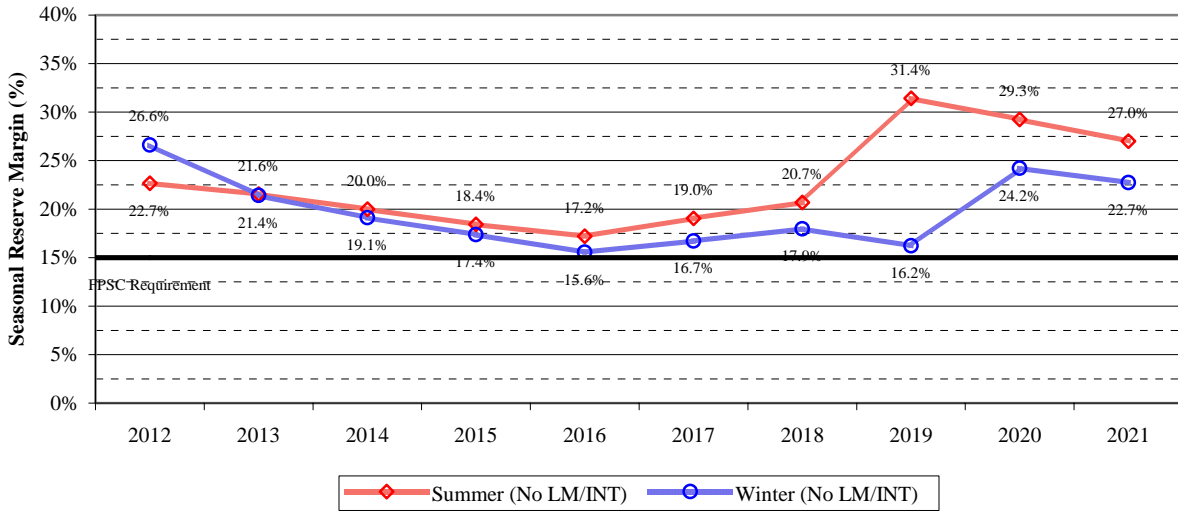
JEA Figure 3. Seasonal Reserve Margin (With LM/INT)



Source: JEA 2012 TYSP

Because JEA does have active load management and interruptible load programs in place, a portion of its reserve margin can be attributed to non-firm load. The measure of reserve margin without any contribution from demand-side programs is shown in JEA Figure 4. JEA's reserve margin exceeds its planning requirement for both summer and winter peak demand throughout the ten year horizon without activating demand response programs.

JEA Figure 4. Seasonal Reserve Margin (Without LM/INT)

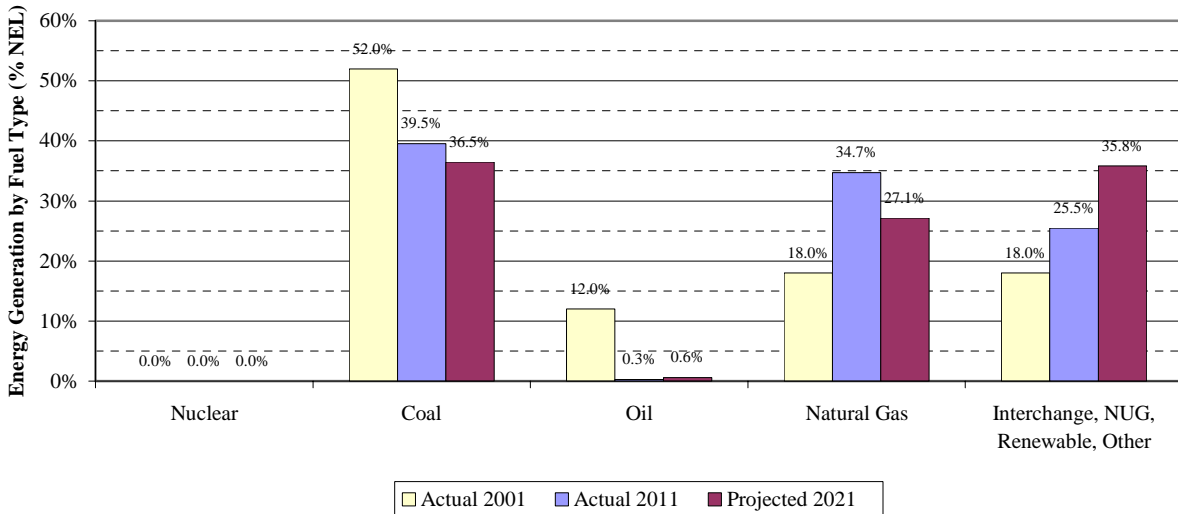


Source: JEA 2012 TYSP

Fuel Diversity

JEA Figure 5 displays the composition of JEA’s system in terms of energy generated. Coal, natural gas, and purchased power are the primary sources, with coal overall declining since 2001 while natural gas and purchased power have increased by 2011. Coal is expected to further decline, along with natural gas, in favor of purchased power by 2021.

JEA Figure 5. Net Energy for Load by Fuel Type



Source: JEA 2002 and 2012 TYSPs

Generation Additions

JEA has no planned generation additions over the planning horizon. This is consistent with the company's 2011 TYSP, which also included no new generating units through 2020.

LAKELAND ELECTRIC (LAK)

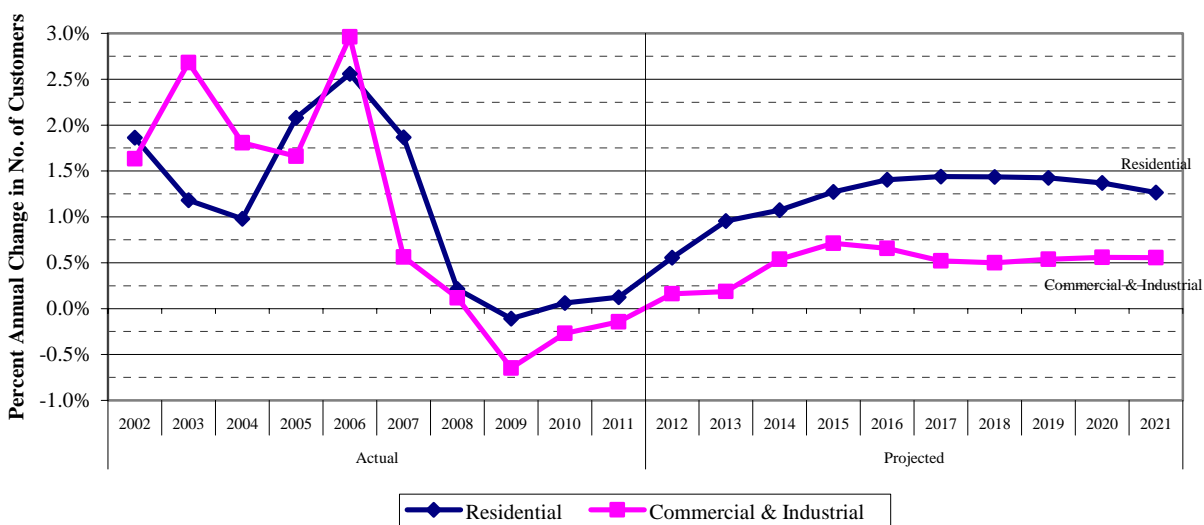
LAK is the municipal utility, and is the state’s ninth largest TYSP utility. LAK is owned and operated by the City of Lakeland. LAK is a member of the Florida Municipal Power Pool (FMPP), along with OUC and FMPP’s All-Requirements Project (ARP). The FMPP operates as an hourly energy pool with all FMPP capacity from its members committed and dispatched together. Each member of the FMPP retains the responsibility of adequately planning its own system to meet native load and FRCC reserve requirements. As LAK is a municipal utility, the Commission’s regulatory authority is limited to safety, rate structure, territorial boundaries, bulk power supply, operations, and planning

In 2011, LAK had an average of 121,763 customers, and had a total net energy for load of 2,893 GWh, approximately 1.2 percent of the NEL generated in the state last year.

Peak Demand and Energy Forecasts

LAK Figure 1 illustrates the company’s actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth during for 2012 through 2021. Customer growth is anticipated to increase slowly throughout the planning period, with an average annual growth rate of 1.21 percent. This compares with the actual rate of 1.75 percent for the period 2002 through 2007.

LAK Figure 1. Annual Customer Growth Rate by Customer Class



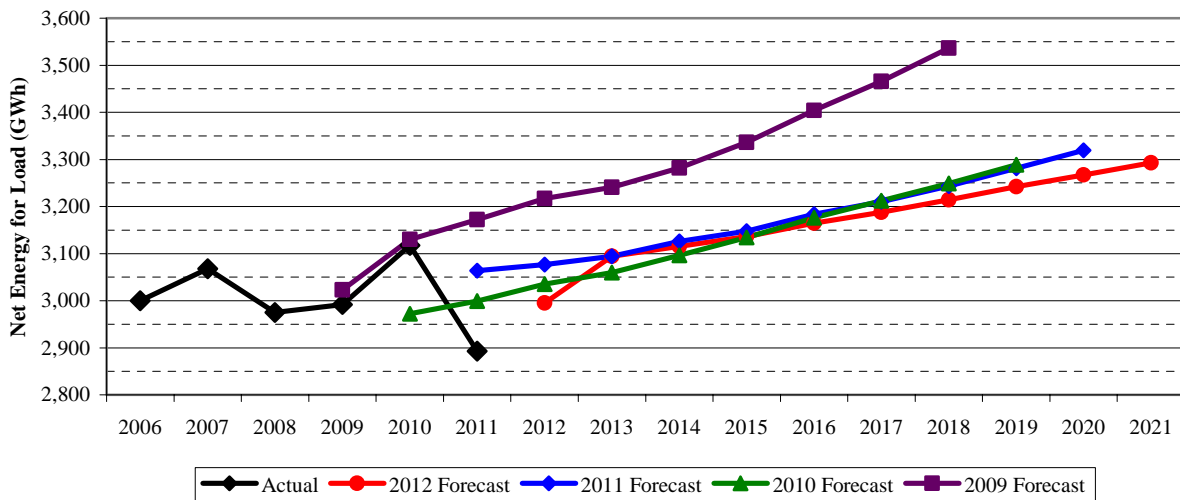
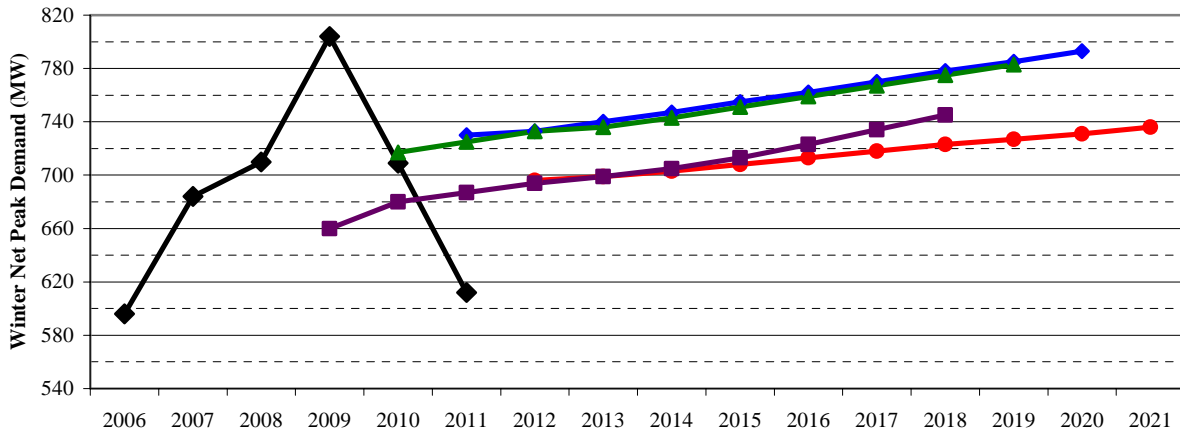
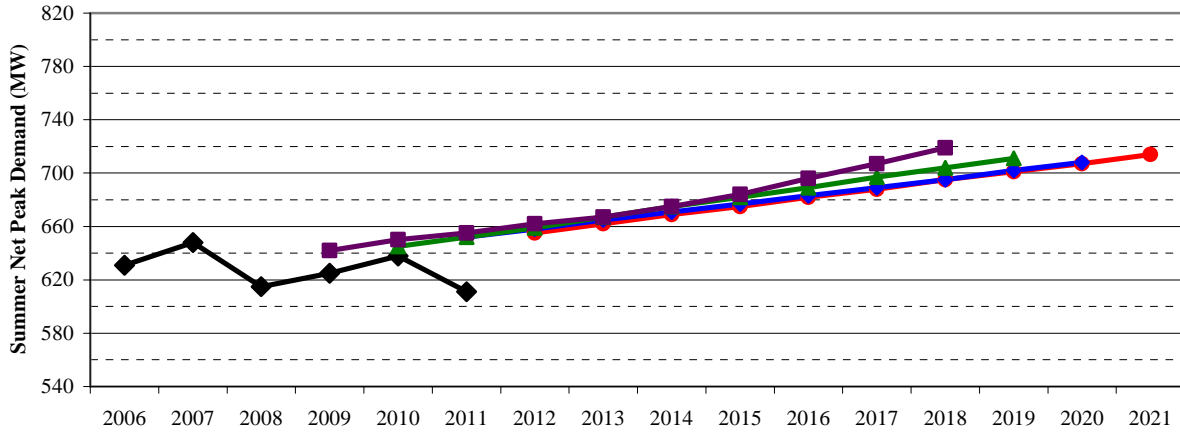
Source: LAK 2012 TYSP

The following three graphs in LAK Figure 2 show LAK’s historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current

year and three previous forecast years. These figures show that the current forecast is equivalent to last year's for summer peak demand and NEL, but notably below for winter peak demand.

Analysis of LAK's historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that LAK's average forecast error is 7.89 percent. This value indicates that the company tends to over-forecast its retail energy sales by 7.89 percent, which is favorable when compared to the average forecast error for all eleven of the TYSP utilities, which was 11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

LAK Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts



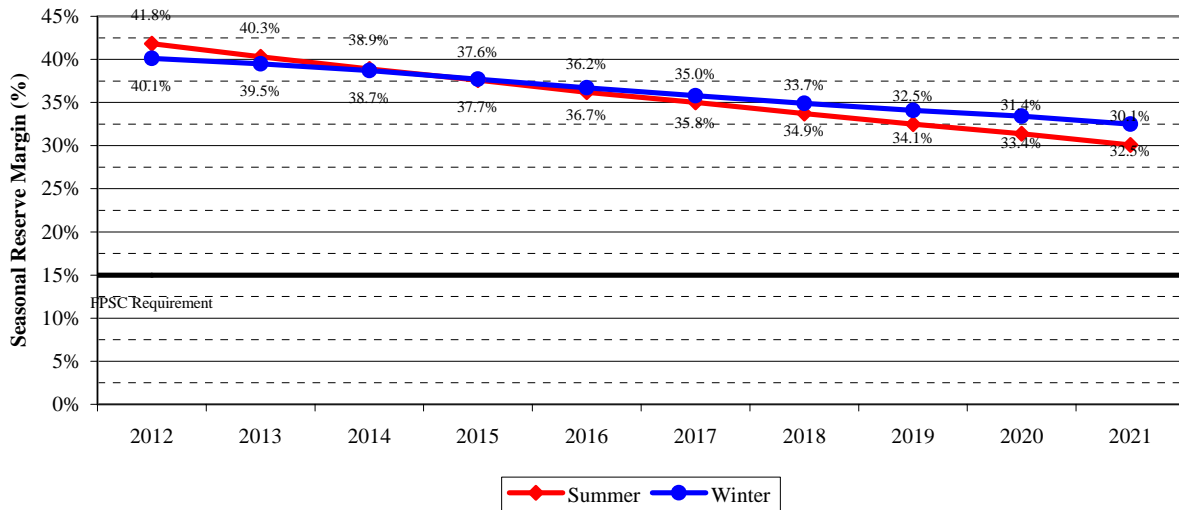
Actual
 2012 Forecast
 2011 Forecast
 2010 Forecast
 2009 Forecast

Source: LAK 2009 - 2012 TYSPs

Reserve Margin Requirement

As an FRCC utility, LAK maintains a 15 percent minimum reserve margin. As LAK Figure 3 shows, although LAK’s reserve margin decreases steadily over the planning horizon, it remains well above the minimum level of 15 percent.

LAK Figure 3. Seasonal Reserve Margin

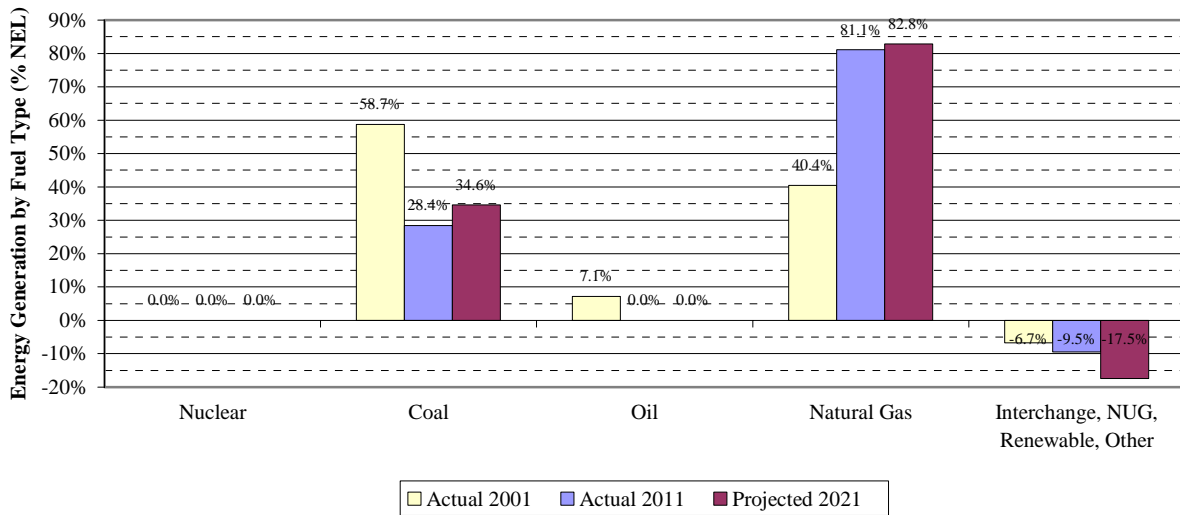


Source: LAK 2012 TYSP

Fuel Diversity

LAK Figure 4 displays the composition of LAK’s system in terms of energy generated. Natural gas has increased its share of the company’s energy from 40.4 percent in 2001 to 81.1 percent in 2011. While coal and oil made a significant portion of generation historically, oil usage has been drastically reduced, and coal’s portion of generation has declined to approximately a third of system energy. LAK also makes significant energy sales, which cause its total energy produced to exceed 100 percent of its native load.

LAK Figure 4. Net Energy for Load by Fuel Type



Source: LAK 2012 TYSP

Generation Additions

LAK has no planned generation additions over the planning horizon. This is consistent with the company's 2011 TYSP, which also included no new generating units through 2020.

ORLANDO UTILITIES COMMISSION (OUC)

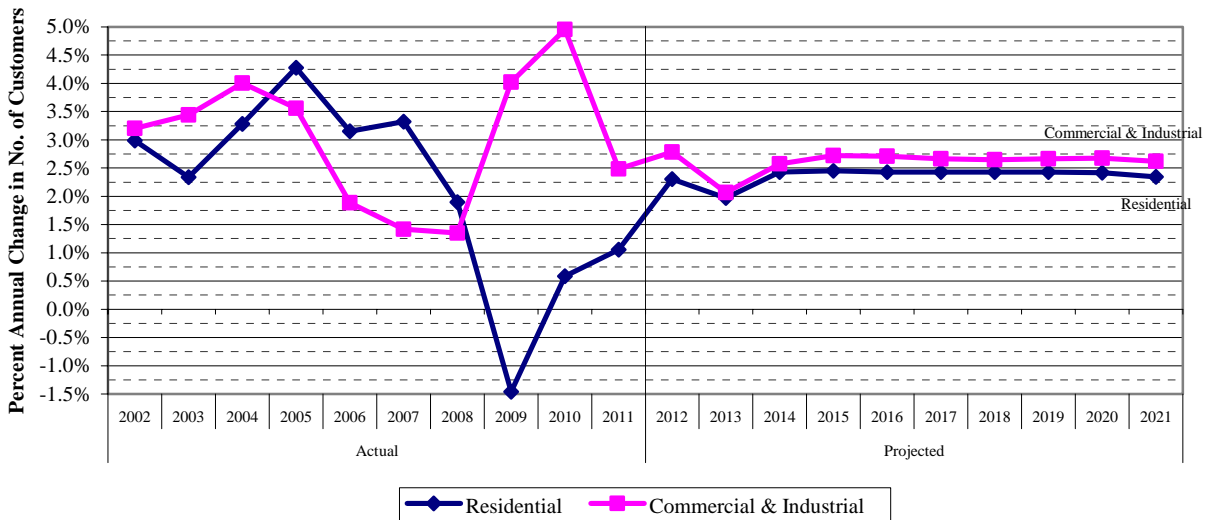
OUC is a municipal utility, and the state’s seventh largest TYSP utility. The utility’s service territory is within the FRCC region, and serves the Orlando metropolitan area. OUC is a member of the FMPP, along with LAK and FMPA’s All-Requirements Project (ARP). As OUC is a municipal utility, the Commission’s regulatory authority is limited to safety, rate structure, territorial boundaries, bulk power supply, operations, and planning.

In 2011, OUC had an average 209,638 customers, and had a total net energy for load of 6,977 GWh, approximately 2.9 percent of the NEL generated in the state last year.

Peak Demand and Energy Forecasts

OUC Figure 1 illustrates the company’s actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth for 2012 through 2021. Overall, OUC projected a steady growth throughout the planning period, with an average annual growth rate of 2.40 percent through 2021. This compares with the actual rate of 3.22 percent for the period 2002 through 2007.

OUC Figure 1. Annual Customer Growth Rate by Customer Class



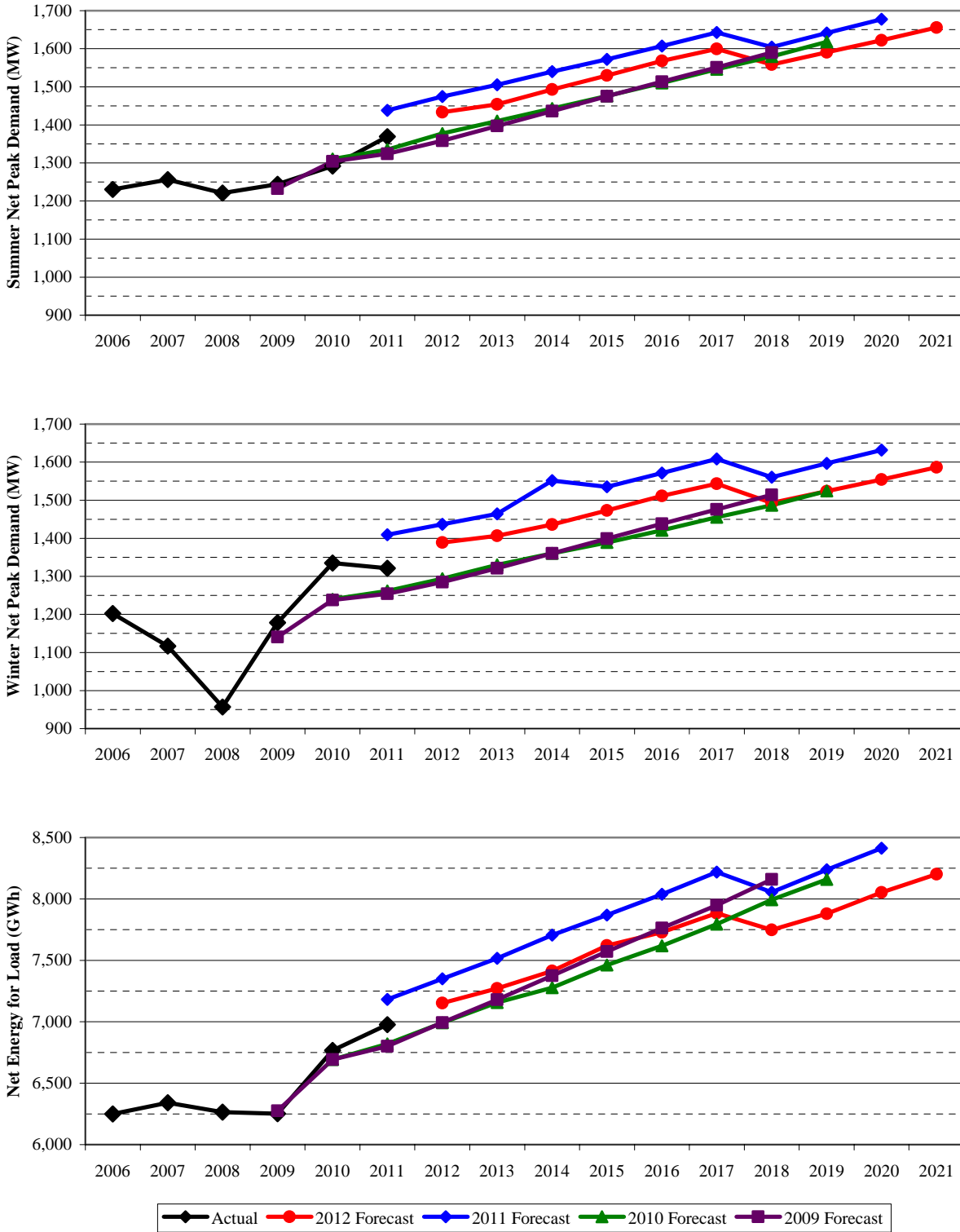
Source: OUC 2012 TYSP

The following three graphs in OUC Figure 2 show OUC’s historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current year and three previous forecast years. These figures show that the current forecast is below last year’s for both seasonal peaks and NEL.

Analysis of OUC’s historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that OUC’s average forecast error is 5.83 percent, the second lowest error

rate in 2012. This value indicates that the company tends to over-forecast its retail energy sales by 5.83 percent, which is favorable when compared to the average forecast error for all eleven of the TYSP utilities, which was 11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

OUC Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts

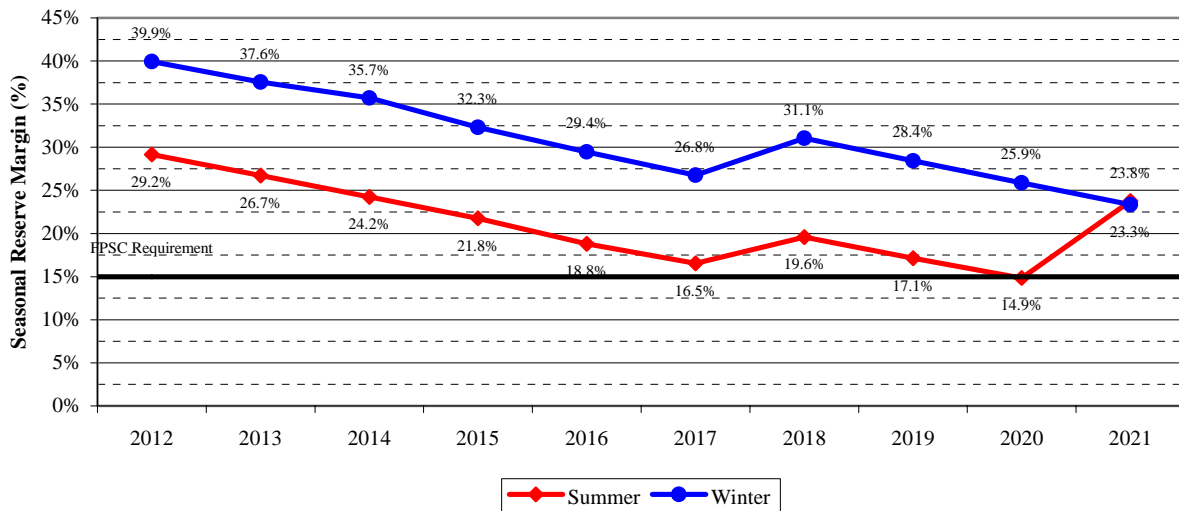


Source: OUC 2009 - 2012 TYSPs

Reserve Margin Requirement

OUC maintains a 15 percent reserve margin pursuant to FRCC requirements. OUC Figure 3 shows their projected reserve margin, which is sufficient for both summer and winter seasonal peaks. OUC does not have active load management and interruptible load programs as part of its DSM program, and therefore has no energy efficiency component included in its reserve margin.

OUC Figure 3. Seasonal Reserve Margin

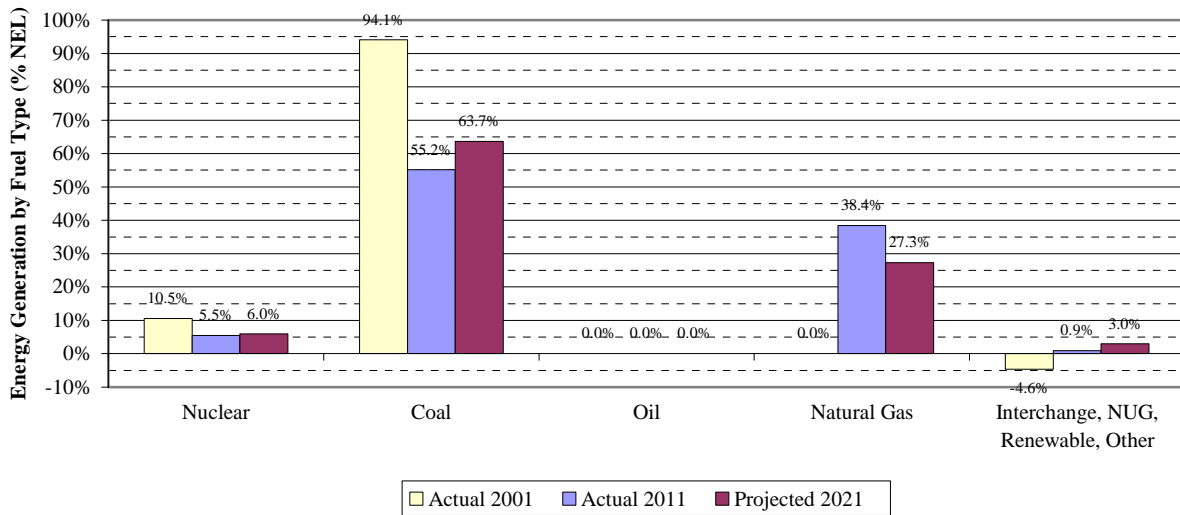


Source: OUC 2012 TYSP

Fuel Diversity

OUC Figure 4 displays the composition of OUC's system in terms of energy generated. As seen in the figure, OUC is historically a coal dependent utility, and as of 2001 did not use natural gas for generation, and was a net exporter of energy. However, by 2011, natural gas had assumed a significant role in OUC's system, with 38.4 percent of generation, as compared to 55.2 percent for coal. The utility's projected fuel mix shows an increase in coal over the planning period, which would result in a reduction of natural gas from its current level.

OUC Figure 4. Net Energy for Load by Fuel Type



Source: OUC 2002 and 2012 TYSPs

Generation Additions

OUC’s 2012 TYSP includes a single new generating unit, an sited 185 MW natural gas-fired combustion turbine with an in-service date in 2021, as detailed in OUC Table 1 below.

OUC Table 1. Planned Generation Additions

| Generating Unit Name | Summer Capacity (MW) | Certification Dates (if Applicable) | | In-Service Date |
|--|----------------------|-------------------------------------|----------------|-----------------|
| | | Need Approved (Commission) | PPSA Certified | |
| Combustion Turbine Unit Additions | | | | |
| Unknown CT1 | 185 | N/A | N/A | 05/2021 |

Source: OUC 2012 TYSP

SEMINOLE ELECTRIC COOPERATIVE, INC. (SEC)

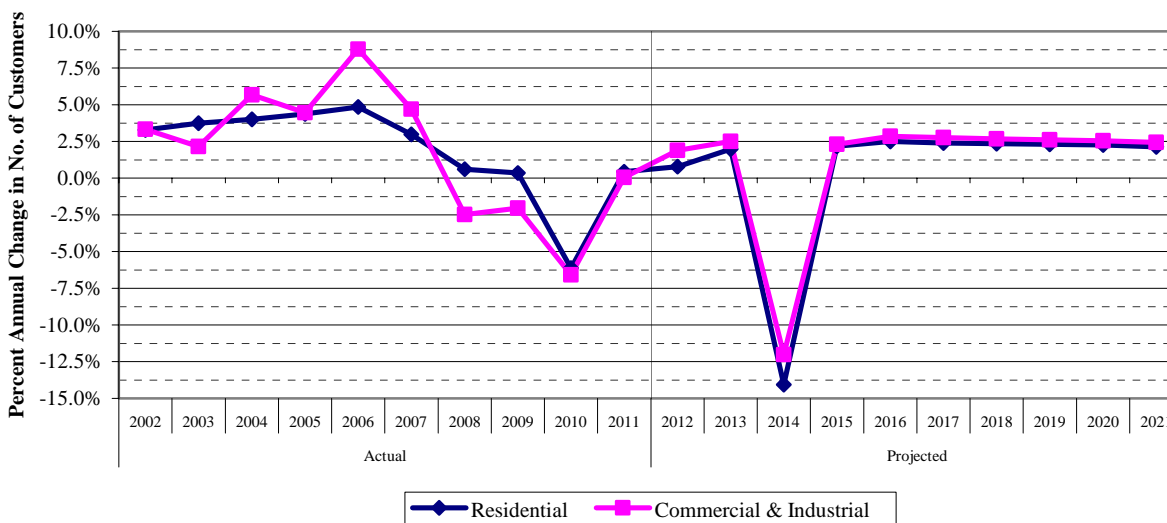
SEC is a corporation that provides electric power to its distribution members' systems, and is collectively the state's fourth largest TYSP utility. SEC is a generation and transmission rural electric cooperative that serves only wholesale customers that purchase power from SEC under long-term wholesale power contracts. SEC is within the FRCC Region, with load serviced throughout the State of Florida. Its generation assets are primarily within the central region. As SEC is a rural electric cooperative, the Commission's regulatory authority is limited to safety, rate structure, territorial boundaries, bulk power supply, operations, and planning

In 2011, SEC had an average 849,059 customers, and had a total net energy for load of 16,037 GWh, approximately 6.7 percent of the NEL generated in the state last year.

Peak Demand and Energy Forecasts

SEC Figure 1 illustrates the company's actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth for 2012 through 2021. Generally the utility expects level growth throughout the planning period, with the exception of 2014. As SEC is composed of multiple members, the overall growth of the utility is heavily impacted by their departure. The projected drop in customers in 2014 is due to the Lee County Electric Cooperative load no longer being served by SEC beginning January 1, 2014.

SEC Figure 1. Annual Customer Growth Rate by Customer Class



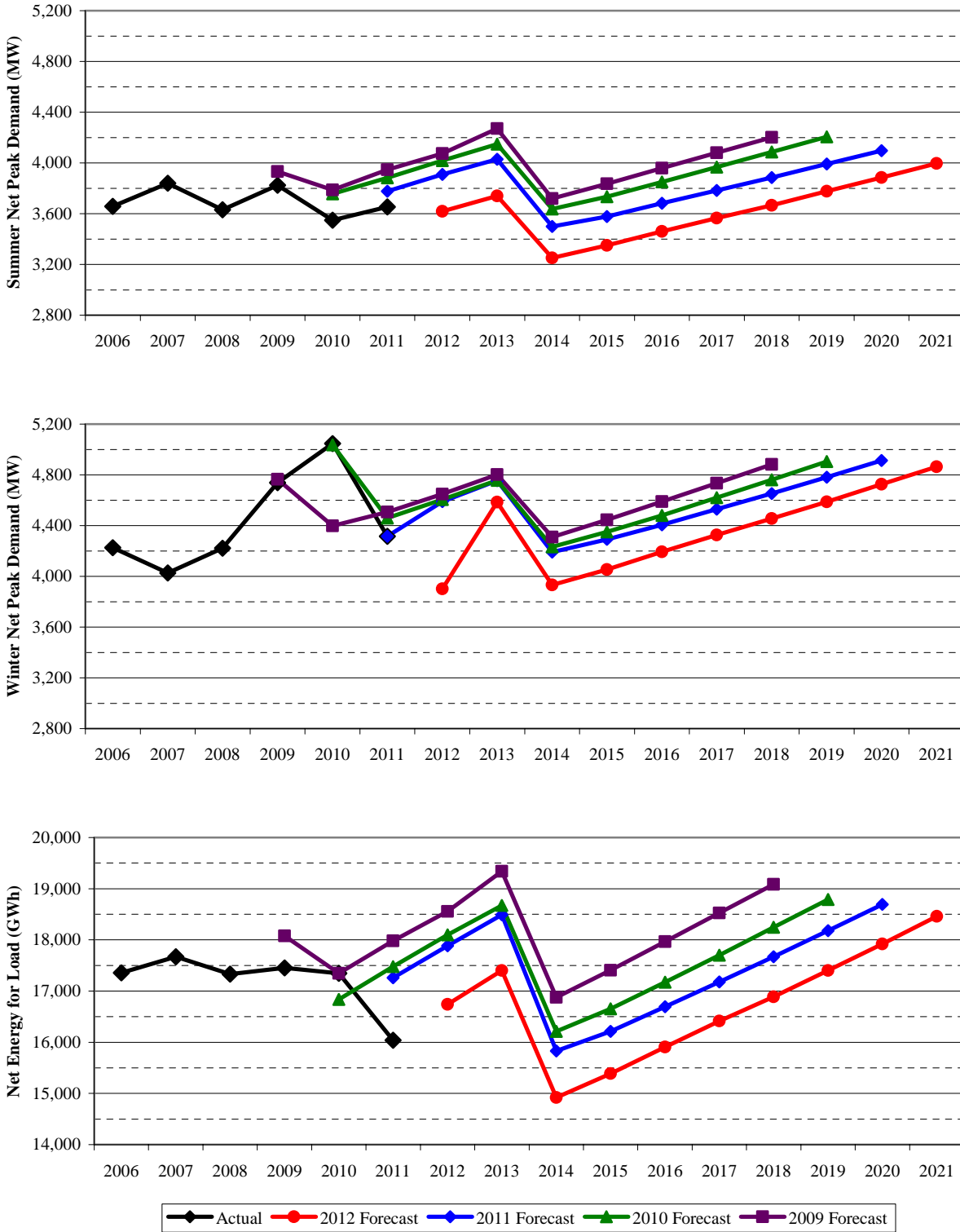
Source: SEC 2012 TYSP

The following three graphs in SEC Figure 2 show SEC's historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current year and three previous forecast years. These figures show that the current forecast is below last

year's for both seasonal peaks and NEL. The forecasts show a significant drop in 2014, associated with the reduction in customers discussed above.

Analysis of SEC's historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that SEC's average forecast error is 11.41 percent. This value indicates that the company tends to over-forecast its retail energy sales by 11.41 percent, which is approximately equivalent to the average forecast error for all eleven of the TYSP utilities, which was 11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

SEC Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts

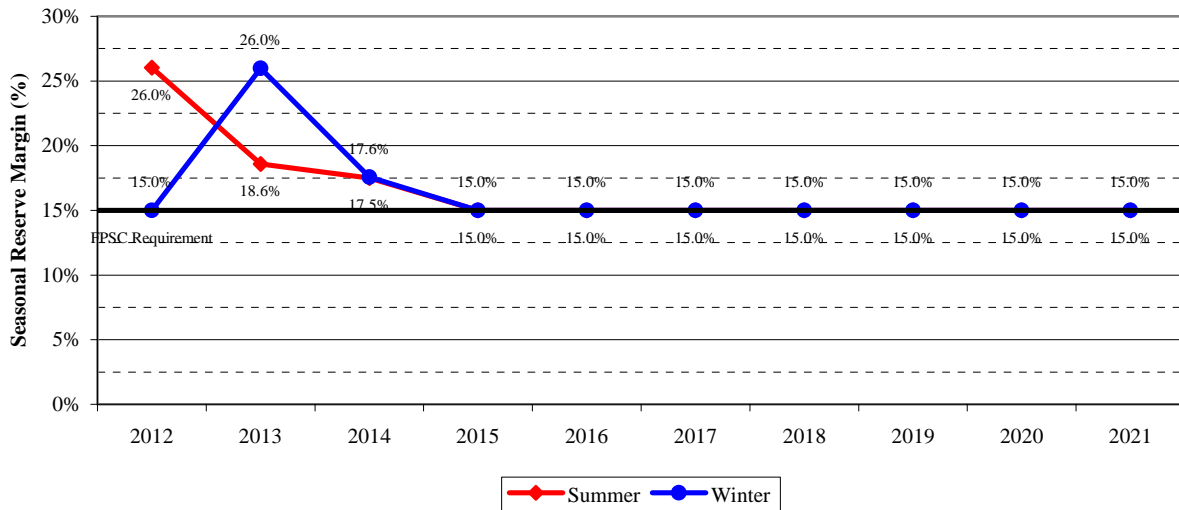


Source: SEC 2009 - 2012 TYSPs

Reserve Margin Requirement

As SEC is within the FRCC region, it is required to meet a 15 percent reserve margin requirement. SEC projects its reserve margin to remain at or above this requirement for both summer and winter seasonal peaks, as shown in SEC Figure 3.

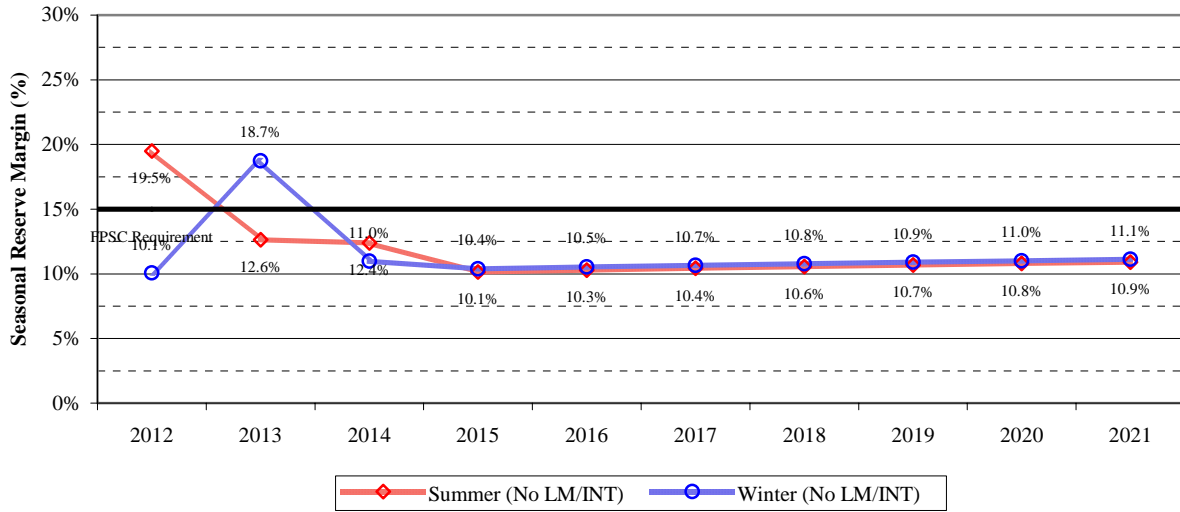
SEC Figure 3. Seasonal Reserve Margin (With LM/INT)



Source: SEC 2012 TYSP

Because SEC does offer load management programs, a portion of its reserve margin can be attributed to non-firm load. The measure of reserve margin without any contribution from demand-side programs is shown in SEC Figure 4. As the figure shows, SEC's reserve margin is projected to remain at approximately 10 percent without activating demand response programs.

SEC Figure 4. Seasonal Reserve Margin (Without LM/INT)

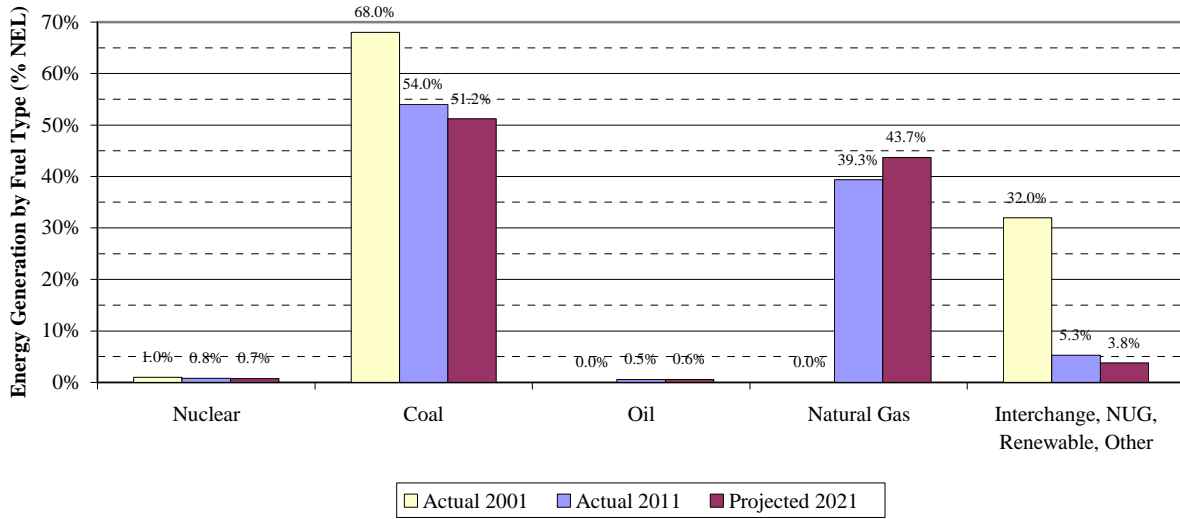


Source: SEC 2012 TYSP

Fuel Diversity

SEC Figure 5 displays the composition of SEC’s system in terms of energy generated. As the figure shows, SEC is historically a coal dependent utility, though this portion has decreased from 68 percent in 2001 to 54 percent in 2011. SEC did not have any generation from natural gas in 2001, but now a significant portion of its generation comes from natural gas units. While purchased power made up a significant portion of system reserves, this has decreased dramatically, from 32 percent to 5.3 percent last year. Generally, SEC’s projected fuel mix is unchanged, except for a slight shift from coal and purchased power towards natural gas generation.

SEC Figure 5. Net Energy for Load by Fuel Type



Source: SEC 2002 and 2012 TYSPs

Generation Additions

SEC’s 2012 TYSP includes the addition of nine natural gas combustion turbine units, and three combined cycle units by the end of the planning period. SEC Table 1 details the generation additions below.

SEC Table 1. Planned Generation Additions

| Generating Unit Name | Summer Capacity (MW) | Certification Dates (if Applicable) | | In-Service Date |
|--|----------------------|-------------------------------------|----------------|-----------------|
| | | Need Approved (Commission) | PPSA Certified | |
| Combustion Turbine Unit Additions | | | | |
| Unnamed CT1 | 158 | N/A | N/A | 12/2018 |
| Unnamed CT2 | 158 | N/A | N/A | 12/2019 |
| Unnamed CT3 | 158 | N/A | N/A | 12/2020 |
| Unnamed CT4 | 158 | N/A | N/A | 12/2020 |
| Unnamed CT5 | 158 | N/A | N/A | 12/2020 |
| Unnamed CT6 | 158 | N/A | N/A | 05/2021 |
| Unnamed CT7 | 158 | N/A | N/A | 12/2021 |
| Unnamed CT8 | 158 | N/A | N/A | 12/2021 |
| Unnamed CT9 | 158 | N/A | N/A | 12/2021 |
| Combined Cycle Unit Additions | | | | |
| Unnamed CC1 | 196 | - | - | Dec-20 |
| Unnamed CC2 | 196 | - | - | Dec-20 |
| Unnamed CC3 | 196 | - | - | Dec-21 |

Source: SEC 2012 TYSP

CITY OF TALLAHASSEE UTILITIES (TAL)

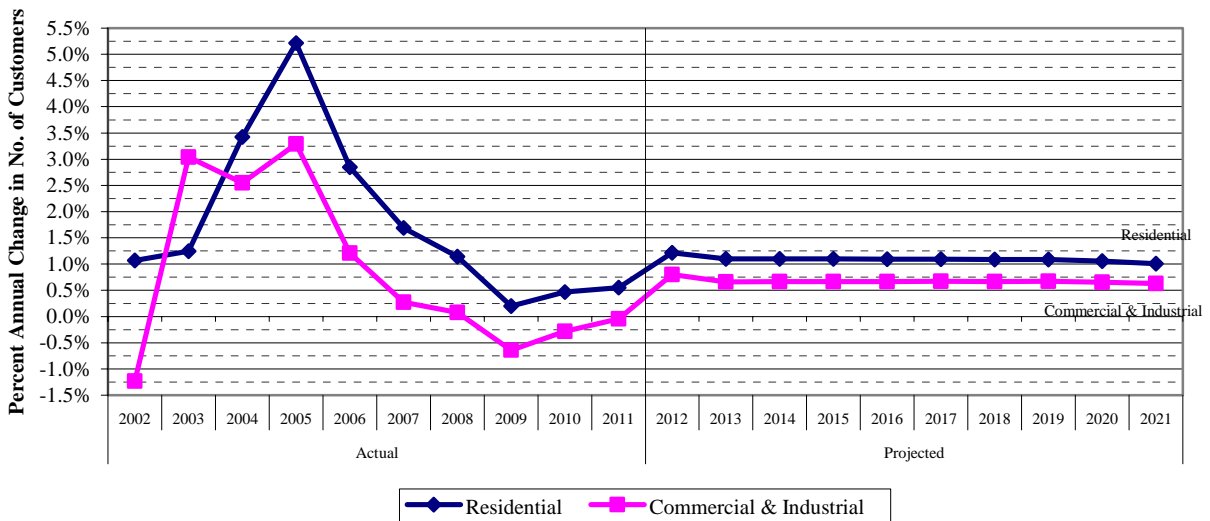
TAL is a municipal utility, and the state’s second smallest TYSP utility. The utility’s service territory is within the FRCC region, in Leon County, and primarily serves the City of Tallahassee. As TAL is a municipal utility, the Commission’s regulatory authority is limited to safety, rate structure, territorial boundaries, bulk power supply, operations, and planning.

In 2011, TAL had an average 114,212 customers, and had a total net energy for load of 2,799 GWh, approximately 1.2 percent of the NEL generated in the state last year.

Peak Demand and Energy Forecasts

TAL Figure 1 illustrates the company’s actual customer growth trends for the period 2002 through 2011, and the 2012 TYSP projections for growth for 2012 through 2021. A level, but positive growth is anticipated over the entire planning period, with an average annual growth rate of 1.01 percent. This compares to the actual average growth rate of 2.74 percent for the period 2002 through 2007, before the economic downturn.

TAL Figure 1. Annual Customer Growth Rate by Customer Class



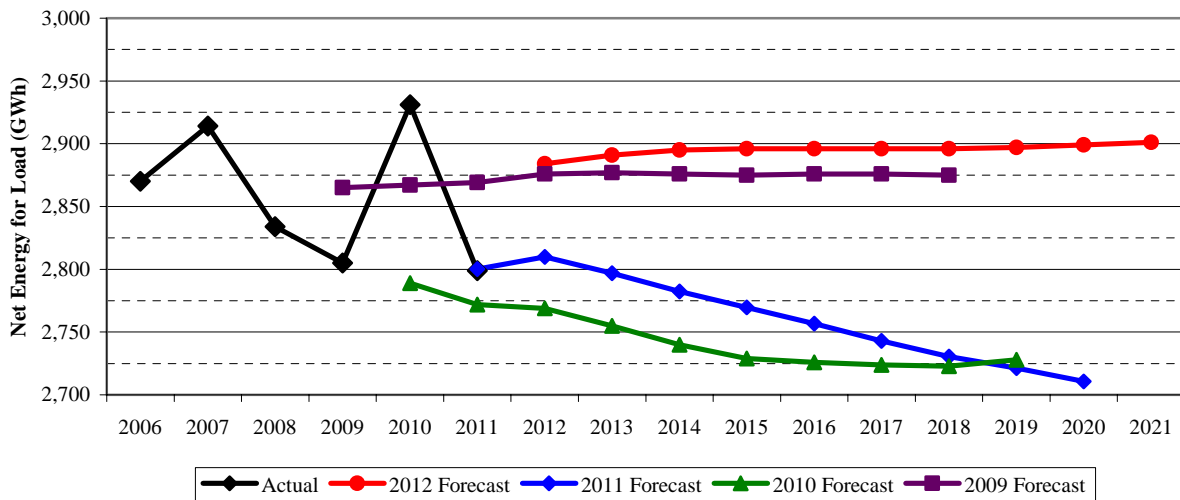
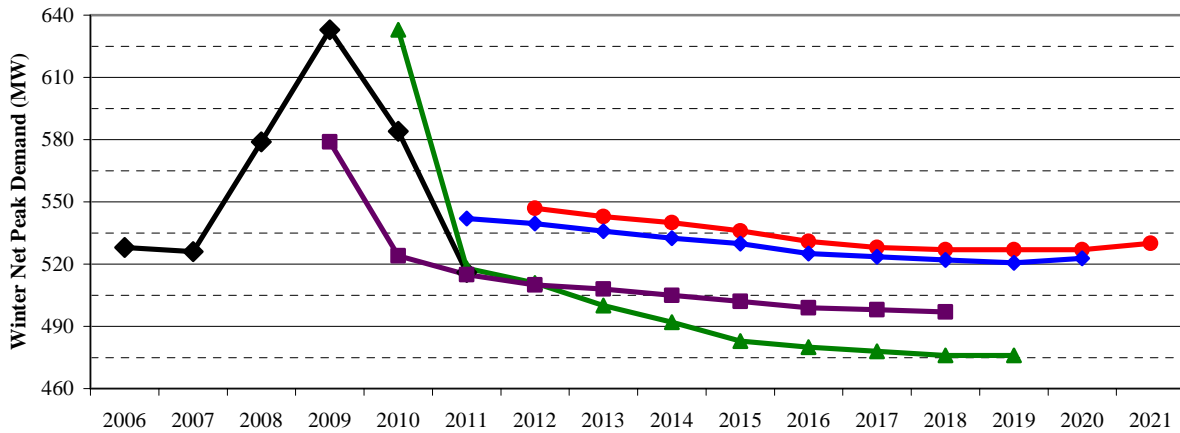
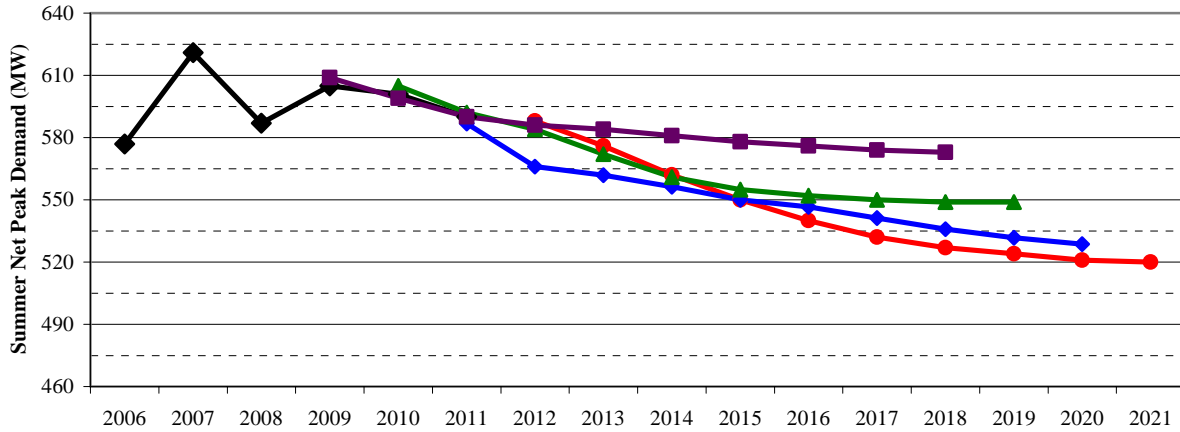
Source: TAL 2012 TYSP

The following three graphs in TAL Figure 2 show TAL’s historic peak demand for both the summer and winter seasons, and NEL for the years since 2006. The forecasted values are also shown through the current planning horizon, including the effect of DSM, for the current year and three previous forecast years. These figures show that the current forecast is similar for seasonal peak demand, but higher for NEL.

Analysis of TAL’s historic forecast accuracy for total retail energy sales from 2007 through 2011 shows that TAL’s average forecast error is 8.77 percent. This value indicates that the company tends to over-forecast its retail energy sales by 8.77 percent, which is favorable

when compared to the average forecast error for all eleven of the TYSP utilities, which was 11.38 percent in 2012. This forecasting error is associated with the decline in forecasted customer growth experienced in the period analyzed, 2007 through 2011.

TAL Figure 2. Seasonal Peak Demand and Annual Energy Consumption Forecasts



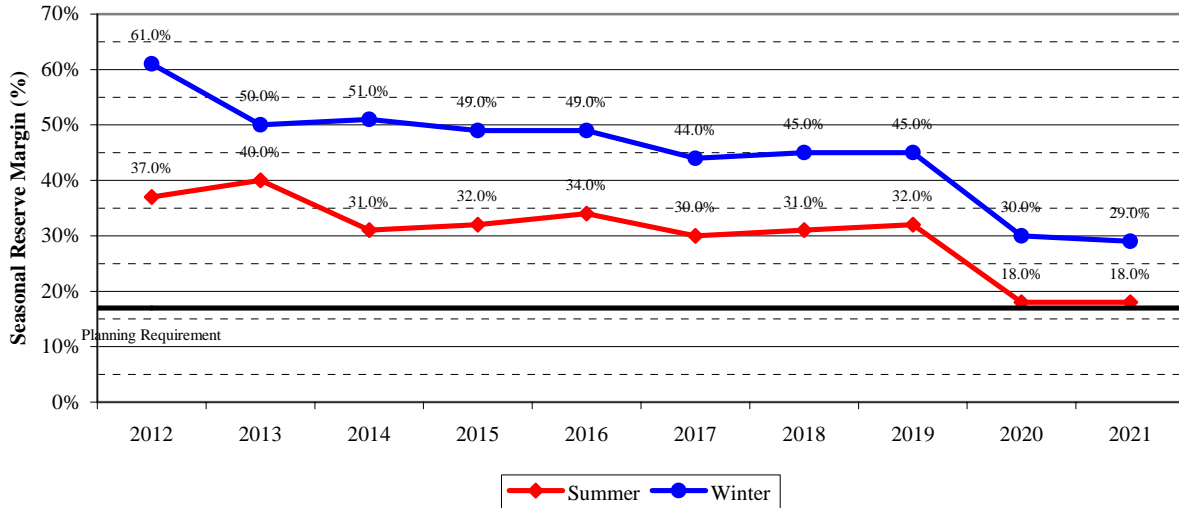
—◆— Actual —●— 2012 Forecast —◆— 2011 Forecast —▲— 2010 Forecast —■— 2009 Forecast

Source: TAL 2009 - 2012 TYSPs

Reserve Margin Requirement

As TAL is within the FRCC region, it is required to meet a 15 percent reserve margin requirement. However, TAL has adopted an 18 percent planning reserve margin requirement, as reflected in TAL Figure 3 below. TAL has sufficient reserve margin including the impact of demand response.

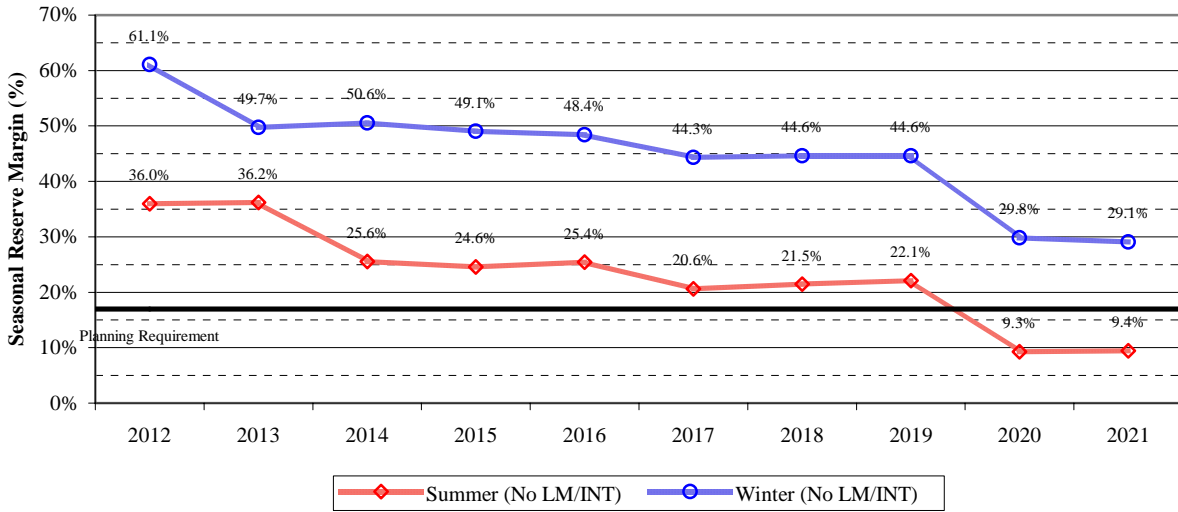
TAL Figure 3. Seasonal Reserve Margin (With LM/INT)



Source: TAL 2012 TYSP

In addition to supply-side resources, TAL has interruptible load and load management programs, which assist the utility in meeting reserve margin requirements. TAL Figure 4 below illustrates the impact on reserve margin of excluding demand response programs. As seen below, the summer peak demand period would fall below the planning reserve margin without the use of demand response programs to reduce peak demand in the outer years.

TAL Figure 4. Seasonal Reserve Margin (Without LM/INT)

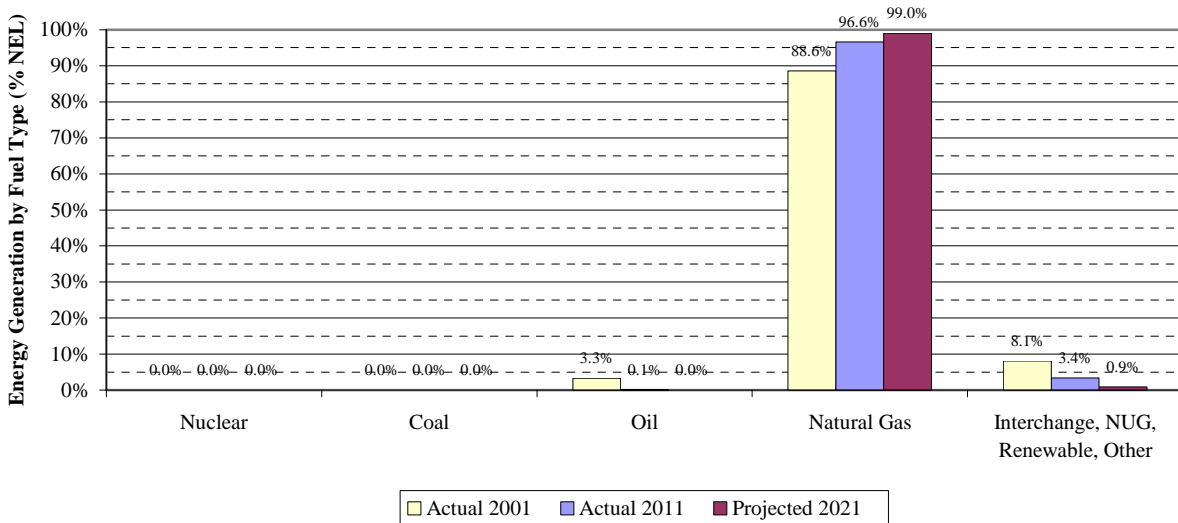


Source: TAL 2012 TYSP

Fuel Diversity

TAL Figure 5 displays the composition of Tallahassee’s system in terms of energy generated. As seen below, TAL has an almost exclusive dependence on natural gas, and by the end of the planning period almost 100 percent of energy for load will be from natural gas. The only other sources of energy on TAL’s system are oil, purchased power, and renewable energy.

TAL Figure 5. Net Energy for Load by Fuel Type



Source: TAL 2002 and 2012 TYSPs

Generation Additions

TAL has no planned generation additions over the planning horizon. This represents a decline from the company's 2011 TYSP, which anticipated the addition of a 46 MW combustion turbine unit in 2020.



**ERNEST ORLANDO LAWRENCE
BERKELEY NATIONAL LABORATORY**

**The Program Administrator
Cost of Saved Energy for Utility
Customer-Funded Energy
Efficiency Programs**

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Steven R. Schiller, Charles A. Goldman, Kristina LaCommare

Environmental Energy Technologies Division

March 2014

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Reliability

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Table of Contents

| | |
|--|------|
| Acknowledgements..... | iii |
| Table of Contents..... | iv |
| List of Tables | vi |
| List of Figures..... | vi |
| Acronyms and Abbreviations | viii |
| Executive Summary | ix |
| Results..... | xi |
| Observations and Recommendations on Reporting..... | xvi |
| 1. Introduction | 1 |
| 1.1 Assessing Energy Efficiency as a Resource | 1 |
| 1.2 Objectives and Scope..... | 2 |
| 1.3 Report Organization..... | 3 |
| 2. Approach | 4 |
| 2.1 Data Summary | 4 |
| 2.2 Program Typology and Standardized Definitions..... | 7 |
| 2.3 Challenges in Consistent and Standardized Reporting of Program Data | 11 |
| 2.4 Calculating and Using the Cost of Saved Energy..... | 12 |
| 2.4.1 Levelized Cost of Saved Energy..... | 14 |
| 2.5 Treatment and Adjustments for Missing Data | 15 |
| 2.5.1 Program Average Measure Lifetime..... | 16 |
| 2.5.2 Cost Data for Combined-Fuel Programs..... | 18 |
| 2.5.3 End-Use versus Source and Busbar Energy Savings..... | 18 |
| 3. Results—Utility Customer-Funded Programs: Costs and Savings | 19 |
| 3.1 Energy Efficiency Program Administrator Expenditures and Savings..... | 19 |
| 3.1.1 Electric Programs..... | 19 |
| 3.1.2 Gas Program Expenditures and Savings..... | 25 |
| 3.2 Observations on the Cost of Saved Energy..... | 27 |
| 3.2.1 National Observations..... | 27 |
| 3.2.2 Sector and Program Level Observations for Electricity Efficiency Programs | 30 |
| 3.2.3 Regional Observations in Electricity Efficiency Programs | 35 |
| 3.2.4 Sensitivity Analysis: Impact of Measure Lifetime | 41 |
| 3.2.5 Program Administrator and Participant Cost Analysis: The Total Resource Cost of Saved Energy | 42 |
| 4. Testing Influences on the Costs of Saved Energy..... | 44 |
| 4.1 Hypotheses..... | 45 |
| 4.2 Approach..... | 46 |
| 4.3 Preliminary Results: Analysis of Factors that May Influence the Cost of Saved Energy | 47 |

| | | |
|-------|--|----|
| 4.3.1 | Program Administrator Experience | 47 |
| 4.3.2 | Scale of Program..... | 48 |
| 4.3.3 | Labor Costs | 50 |
| 4.4 | Analytical Challenges | 51 |
| 5. | Discussion of Key Findings and Recommendations | 52 |
| 5.1 | Key Findings..... | 52 |
| 5.2 | Discussion: Program Data Collection and Reporting..... | 54 |
| 6. | References | 58 |

List of Tables

| | |
|---|----|
| Table ES-1. The program administrator cost of saved energy (CSE) for electricity efficiency programs for 2009-2011 data in the LBNL DSM Program Impacts Database (2012\$/kWh) | xi |
| Table 2-1. Summary of energy efficiency program data in LBNL DSM Program Impacts Database | 5 |
| Table 2-2. Abridged definitions for selected program cost and savings data | 10 |
| Table 2-3. Program administrator cost of saved energy metrics: definitions and potential uses.. | 13 |
| Table 3-1. Program administrator expenditures for 2009–2011 electricity efficiency programs. | 20 |
| Table 3-2. U.S. Census Regions and states in the LBNL DSM Program Impacts Database | 23 |
| Table 3-3. Program administrator expenditures for 2009-2011 natural gas efficiency programs | 26 |
| Table 3-4. The program administrator CSE for electricity efficiency programs by sector: national savings-weighted averages | 28 |
| Table 3-5. The program administrator CSE for gas efficiency programs by sector: national savings-weighted averages (\$/therm) | 29 |
| Table 4-1. Factors that may influence the cost of saved energy | 45 |

List of Figures

| | |
|---|------|
| Figure ES-1. CSE for electricity efficiency programs by sector for 2009-2011 data in the LBNL DSM Program Impacts Database | xii |
| Figure ES-2. National levelized CSE for C&I sector simplified program categories | xiii |
| Figure ES-3. National levelized CSE for residential sector simplified program categories..... | xiv |
| Figure ES-4. Levelized savings-weighted average CSE for electricity efficiency programs that include program administrator costs vs. total resource costs for select program categories | xv |
| Figure 2-1. LBNL DSM Program Impacts Database coverage as compared to national efficiency spending reported by Consortium for Energy Efficiency (CEE) | 6 |
| Figure 2-2. Selected program types in the LBNL program typology | 8 |
| Figure 2-3. Range of reported program average measure lifetime values for select detailed program categories | 17 |
| Figure 3-1. Program administrator expenditures, first year and lifetime gross savings for 2009–2011 electricity efficiency programs | 20 |
| Figure 3-2. Program administrator expenditures and lifetime gross savings by simplified program category for 2009–2011 residential electricity efficiency programs | 21 |
| Figure 3-3. Lifetime gross electricity savings for 2009-2011 residential consumer product rebate programs | 22 |
| Figure 3-4. Program administrator expenditures and gross lifetime savings for 2009-2011 commercial and industrial electricity efficiency programs | 23 |
| Figure 3-5. Program administrator expenditures by region for 2009-2011 electricity efficiency programs | 24 |
| Figure 3-6. Program administrator lifetime savings by region for 2009-2011 electricity efficiency | 25 |

| | |
|---|----|
| Figure 3-7. Program administrator expenditures, first- year and lifetime gross savings for 2009–2011 natural gas efficiency programs | 26 |
| Figure 3-8. National savings-weighted average CSE for electricity efficiency programs by sector | 28 |
| Figure 3-9. CSE for natural gas efficiency programs by sector..... | 30 |
| Figure 3-10. National levelized CSE for electricity efficiency programs by sector | 31 |
| Figure 3-11. National levelized CSE for commercial and industrial sector simplified program categories | 32 |
| Figure 3-12. National levelized CSE for residential sector simplified program categories | 33 |
| Figure 3-13. National levelized CSE for residential whole home detailed program category | 34 |
| Figure 3-14. National levelized CSE for residential consumer product rebate detailed program categories | 35 |
| Figure 3-15. Levelized CSE for electricity efficiency programs by region..... | 36 |
| Figure 3-16. CSE values by state for electricity efficiency programs (excluding low-income programs)..... | 37 |
| Figure 3-17. Percent of regional lifetime savings by climate zone and levelized CSE for electricity efficiency programs | 38 |
| Figure 3-18. Levelized CSE for residential new construction programs compared to residential building energy codes adopted by states in each region | 39 |
| Figure 3-19. Regional levelized CSEs for commercial new construction programs compared to commercial building energy codes adopted by states in each region..... | 40 |
| Figure 3-20. Impact of different program average measure lifetime assumptions on the levelized CSE for electricity efficiency programs | 42 |
| Figure 3-21. Levelized savings-weighted average CSE for electricity efficiency programs that include program administrator costs vs. total resource costs for select program categories | 43 |
| Figure 4-1. First-year portfolio-level CSE and program administrator experience, as measured by years of program spending above a minimal level..... | 48 |
| Figure 4-2. First-year CSE for appliance recycling programs and the reported number of recycling program participants | 49 |
| Figure 4-3. First-year portfolio-level CSE values and state average wages for construction industry employees (\$/hour)..... | 50 |
| Figure 5-1. Components of annual energy efficiency program reporting | 56 |

Acronyms and Abbreviations

| | |
|-------|--|
| ACEEE | American Council for and Energy-efficient Economy |
| C&I | commercial and industrial (private sector) |
| CCE | Cost of conserved energy |
| CEE | Consortium for Energy Efficiency |
| CSE | Cost of saved energy |
| DOE | U.S. Department of Energy |
| DSM | Demand-Side Management |
| EIA | Energy Information Administration |
| EERS | Energy Efficiency Resource Standards |
| HVAC | heating, ventilation, air conditioning |
| LCOE | Levelized cost of energy |
| MUSH | Municipal and state governments, universities and colleges, K-12 schools, and healthcare markets |
| WACC | Weighted average cost of capital |

Executive Summary

End-use energy efficiency is increasingly being relied upon as a resource for meeting electricity and natural gas utility system needs within the United States. There is a direct connection between the maturation of energy efficiency as a resource and the need for consistent, high-quality data and reporting of efficiency program costs and impacts. To support this effort, LBNL initiated the Cost of Saved Energy Project (CSE Project) and created a Demand-Side Management (DSM) Program Impacts Database to provide a resource for policy makers, regulators, and the efficiency industry as a whole.

This study is the first technical report of the LBNL CSE Project and provides an overview of the project scope, approach, and initial findings, including:

- Providing a *proof of concept* that the program-level cost and savings data can be collected, organized, and analyzed in a systematic fashion;
- Presenting initial program, sector, and portfolio level results for the program administrator CSE for a recent time period (2009-2011); and
- Encouraging state and regional entities to establish common reporting definitions and formats that would make the collection and comparison of CSE data more reliable.

The LBNL DSM Program Impacts Database includes the program results reported to state regulators by more than 100 program administrators in 31 states, primarily for the years 2009–2011. In total, we have compiled cost and energy savings data on more than 1,700 programs over one or more program-years for a total of more than 4,000 program-years' worth of data, providing a rich dataset for analyses. We use the information to report costs-per-unit of electricity and natural gas savings for utility customer-funded, end-use energy efficiency programs. The program administrator CSE values are presented at national, state, and regional levels by market sector (e.g., commercial, industrial, residential) and by program type (e.g., residential whole home programs, commercial new construction, commercial/industrial custom rebate programs).

In this report, the focus is on gross energy savings and the costs borne by the program administrator—including administration, payments to implementation contractors, marketing, incentives to program participants (end users) and both midstream and upstream trade allies, and

Cost of Saved Energy (CSE) vs. Cost Effectiveness

The program administrator's cost of saved energy is a useful metric for comparing the relative costs of efficiency programs and for comparing an energy efficiency option to other demand and supply choices for serving energy needs. The CSE is comparable to the levelized cost of energy (LCOE), which represents the per-kilowatt hour cost (in real dollars) of building and operating a generating plant over an assumed financial life and duty cycle.

The cost of saved energy is not a direct test of cost effectiveness, however, and is not a benefit-cost analysis, like the Program Administrator's Cost Test or Utility Cost Test, because it does not purport to capture the monetized value of efficiency to utility customers and shareholders.

evaluation costs.¹ We collected data on net savings and costs incurred by program participants. However, there were insufficient data on participant cost contributions, and uncertainty and variability in the ways in which net savings were reported and defined across states (and program administrators). As a result, they were not used extensively in this report. It is also important to note that savings metrics reported by program administrators draw heavily from estimated values.²

Key Definitions

Program administrator costs include administrative, education, marketing and outreach, and evaluation, measurement and verification (EM&V) costs as well as financial incentives paid to customers or contractors. The CSE values exclude participant costs, and program administrator performance incentives, and, thus, do not represent the total resource cost unless indicated otherwise.

Program savings are based on **claimed gross savings** reported by the program administrator unless indicated otherwise. For program administrators that only reported net savings values, we calculated gross savings values using net-to-gross ratios if those were available from the program administrator.

Savings values are also based on **savings at the end-use site** and not at the power plant or natural gas pumping station and thus do not account for transmission and distribution losses.

Lifetime energy savings, when not reported by the program administrator, were calculated per the protocol described in Chapter 2.

Cost of First-Year Energy Savings (First-Year CSE): The cost of acquiring a single year of annualized incremental energy savings through actions taken through a program/sector/portfolio. The cost of efficiency as a function of first-year energy savings may be useful for program design or budgeting to meet incremental annual savings targets.

Levelized Cost of Lifetime Energy Savings (Levelized CSE): The cost of acquiring energy savings that accrue over the economic lifetime of the actions taken through a program/sector/portfolio, amortized over that lifetime and discounted back to the year in which the costs are paid and the actions are taken.

¹ Researchers who have estimated the cost of saved energy for efficiency programs have typically focused on the program administrator's costs because data on participant costs are often not available (Friedrich et al. 2009). Gross savings are those associated with the program participants' efficiency actions, irrespective of the cause of those actions. Net savings is defined as the total change in energy use that is attributable to a program (for both program participants and non-participants).

² Savings metrics rely heavily on estimated values because "...energy and demand savings as well as non-energy benefits resulting from efficiency actions cannot be directly measured. Instead, savings and benefits are based on counterfactual assumptions. Using counterfactual assumptions implies that savings are estimated to varying degrees of accuracy by comparing the situation (e.g., energy consumption) after a program is implemented (the reporting period) to what is assumed to have been the situation in the absence of the program (the "counterfactual" scenario, known as the baseline). For energy impacts, the baseline and reporting period energy use are compared, while controlling (making adjustments) for factors unrelated to energy efficiency actions, such as weather or building occupancy. These adjustments are a major part of the evaluation process; how they are determined can vary from one program type to another and from one evaluation approach to another. " (SEE Action Network 2012)

Results

The CSE values presented in this study are retrospective and may not necessarily reflect future CSE for specific programs, particularly given updated appliance and lighting standards. The CSE values are presented as either (a) the savings-weighted average values; (b) as an inter-quartile range with median³ values across the sample of programs; or (c) both.

Table ES-1 provides an overall indication of national, savings-weighted average program administrator CSE values by sector using two indicators (e.g., levelized CSE 6% real discount rate and first-year CSE).⁴ Figure ES-1 indicates the savings-weighted averages, medians and inter-quartile ranges for levelized CSE values using a 6% discount rate.

Table ES-1. The program administrator CSE for electricity efficiency programs for 2009-2011 data in the LBNL DSM Program Impacts Database (2012\$/kWh)

| Sector | Levelized CSE (\$/kwh; 6% discount rate) | First-Year CSE (\$/kwh) |
|-------------------------------|---|----------------------------|
| Commercial & Industrial (C&I) | \$ 0.021 | \$ 0.188 |
| Residential | \$ 0.018 | \$ 0.116 |
| Low Income | \$ 0.070 | \$ 0.569 |
| Cross Sectoral/Other | \$ 0.017 | \$ 0.120 |
| National CSE | \$ 0.021 | \$ 0.162 |

Values in this table are based on the 2009-2011 data in the LBNL DSM Program Impacts Database. CSE values are for **program administrator costs** and based on gross savings.

³ The *inter-quartile range* is the middle 50 percent of the range of program CSE values. The *median* is the numerical value separating the upper half of a data sample from the lower half.

⁴ We calculated a levelized CSE using two discount rates that are rough proxies for different perspectives on energy efficiency investments: a 6% real discount rate that can reflect the utility weighted average cost of capital (WACC) and a 3% real discount rate that can be a proxy for a societal perspective.

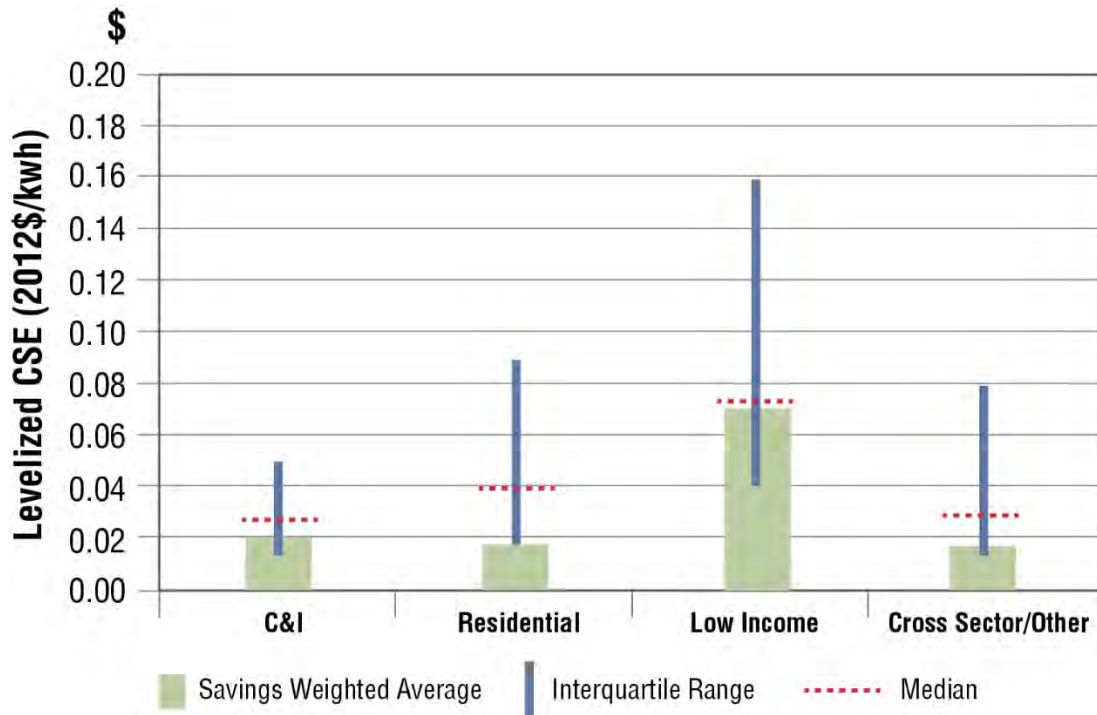


Figure ES-1. CSE for electricity efficiency programs by sector for 2009-2011 data in the LBNL DSM Program Impacts Database

Our key national and regional findings are:⁵

- The U.S. average levelized CSE was slightly more than two cents per kilowatt-hour when gross savings and spending is aggregated at the national level and the CSE is weighted by savings.
- Residential electricity efficiency programs had the lowest average levelized CSE at \$0.018/kWh. Lighting rebate programs accounted for at least 44% of total residential lifetime savings with a savings-weighted average levelized CSE of \$0.007/kWh. The residential CSE, when the lighting programs were removed, was \$0.028/kWh. Low-income programs have an average levelized CSE at \$0.070/kWh.
- Commercial, industrial and agricultural (C&I) programs had an average levelized CSE of \$0.021/kWh.
- Not surprisingly, the levelized CSE varies widely, both among and within program types. We find that the median value is typically higher than the savings-weighted average for nearly all types of programs. One possible explanation is that our sample includes a number of very large programs and for any given program type, larger efficiency programs have lower CSE than smaller programs because administrative costs are spread over more projects (e.g., economies of scale).
- In reviewing regional results, efficiency programs in the midwest had the lowest average levelized CSE (\$0.014/kWh), while programs in northeast states had a higher

⁵ Key findings in this section use savings-weighted average CSE values that include program administrator costs (in 2012\$) and reported gross savings, which are levelized using a 6% real discount rate.

average CSE value (\$0.033/kWh). Programs in western states are at \$0.023/kWh and for the southern states included in the database, the comparable program CSE was \$0.028/kWh.

- Natural gas efficiency programs had a national, program administrator savings-weighted average CSE of \$0.38 per therm, with significant differences between the C&I and residential sectors (average values of \$0.17 vs. \$0.56 per therm, respectively).
- The cost of saved energy may vary across program administrator portfolios for reasons that have little to do with programmatic efficiency. In some jurisdictions, a policy mandate of acquiring all reasonably available cost-effective energy efficiency can lead to a focus on more comprehensive programs which will tend to have a higher CSE because they are serving more diverse constituencies and technologies. In other jurisdictions, the focus may be on acquiring the cheapest savings possible.

Program-level results

We also examined the cost of saved energy by program type for both residential and C&I programs (see Chapter 3). Figure ES-2 shows an example for the C&I programs, including savings-weighted average (pale green bar) CSE values, the inter-quartile ranges (blue line) and median (red dotted line) CSE values. The median value and inter-quartile ranges for CSE are based on calculations for each individual program and gives equal weighting to programs irrespective of their relative size in terms of either savings or costs.

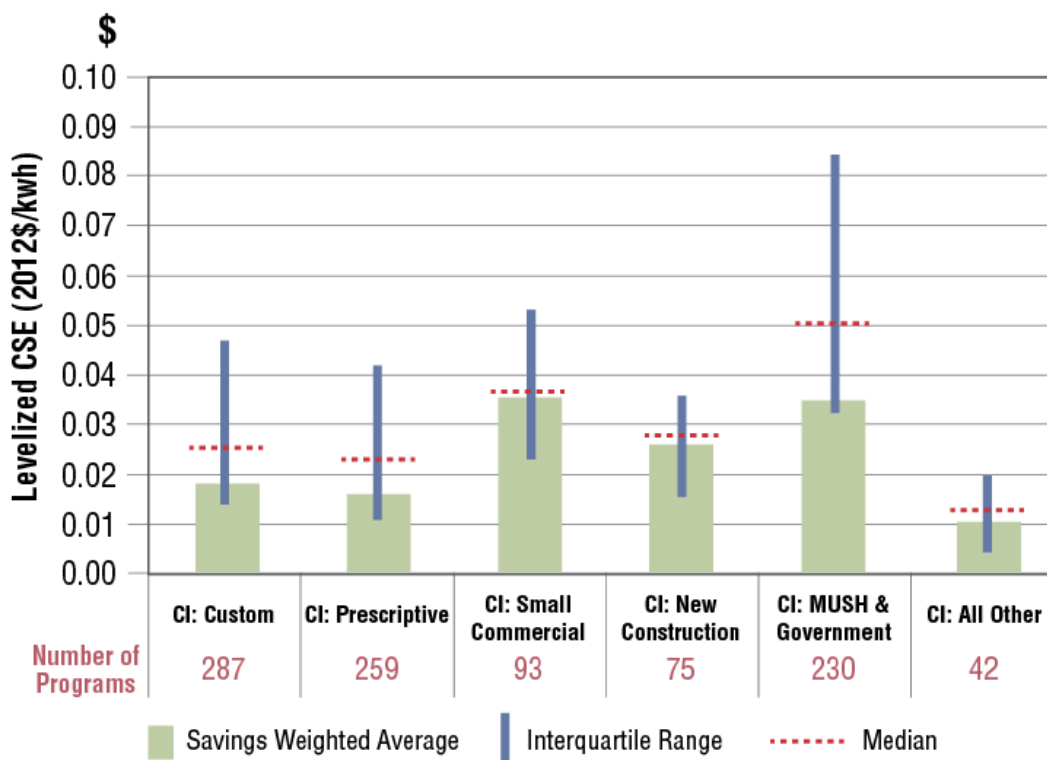


Figure ES-2. National levelized CSE for C&I sector simplified program categories

The simplified C&I programs have median values for program administrator CSE that range from \$0.01/kWh to \$0.05/kWh. It is worth noting that the savings-weighted average CSE values for custom and prescriptive rebate program categories are \$0.018/kWh and \$0.015/kWh, respectively. Since these two program categories account for almost 70% of C&I sector savings, they tend to drive the overall CSE results for the C&I sector (less than \$0.02/kWh).

For the residential programs, several program categories have a relatively tight range of program CSE values (see Figure ES-3). For example, Consumer Product Rebate programs have an interquartile range of \$0.01/kWh to \$0.04/kWh and a low savings-weighted average (~\$0.01/kWh). However, the residential prescriptive (\$0.03/kWh to \$0.11/kWh), new construction (\$0.03/kWh to \$0.11/kWh) and whole-home upgrade (\$0.03/kWh to \$0.21/kWh) program types have significantly larger ranges. There are several possible reasons for the range of CSE values in each of these program categories. The prescriptive simplified program category includes detailed program types that implement a wide variety of measures (e.g., HVAC, insulation, windows, pool pumps) as well as some generic “prescriptive” programs⁶ that often include measures also found in the consumer product rebate category. This broad measure mix, and the variation in costs and measure lifetimes associated with those measures, are possible drivers for the wide range of CSE values for the prescriptive category.

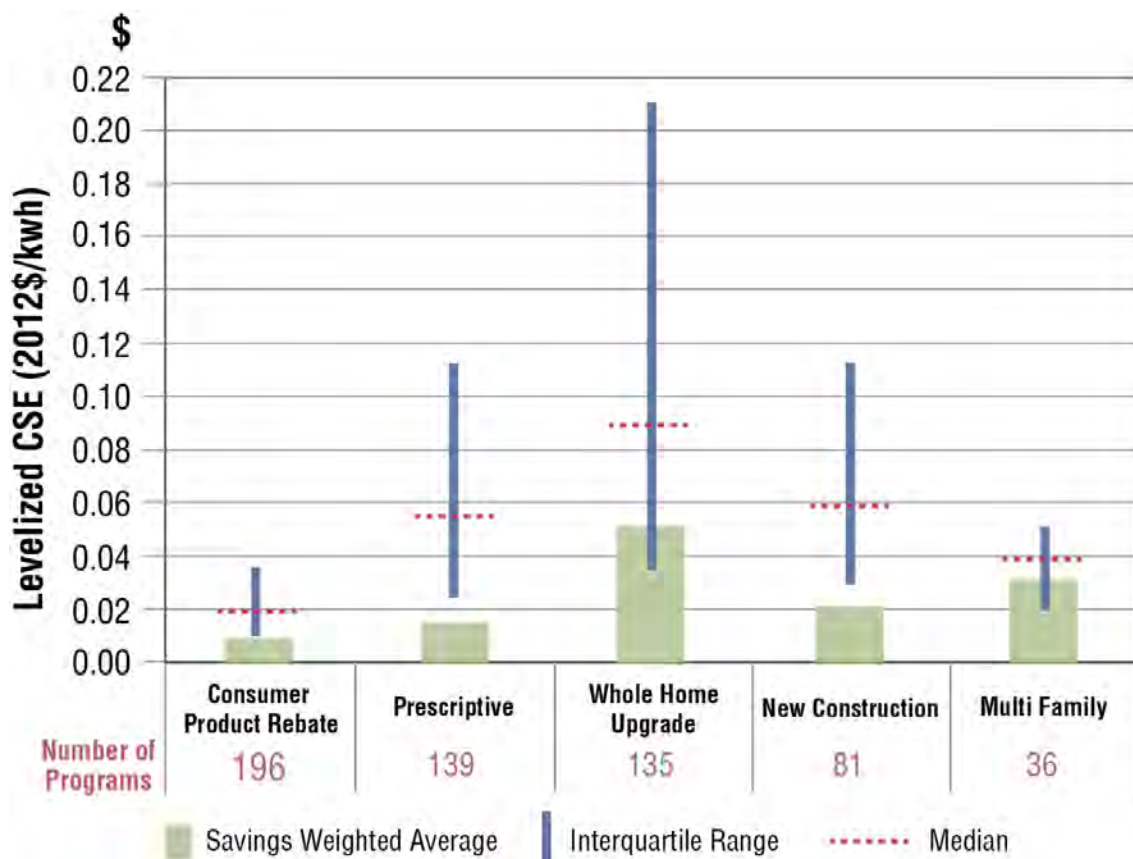


Figure ES-3. National levelized CSE for residential sector simplified program categories

⁶ Some programs include all their rebated measures under the same program title and it is not possible to determine where the majority of the savings is coming from. In these cases, the programs were categorized as “Residential Prescriptive.”

For the Whole-Home Upgrade program category, the broad range of program designs and delivery mechanisms (this category includes audit, direct install, and retrofit/upgrade programs) may help explain the relatively wide range of CSE values. Overall, most C&I program categories have a relatively smaller inter-quartile range of CSE values compared to residential program categories.

Total resource cost of saved energy

Although we focus on program administrator costs in this report, it is important to note that these metrics do not reflect a total cost perspective since program administrators infrequently report participant costs. We were able to collect participant cost data from a handful of program administrators. However, given small sample size and uncertainty in how participant costs were derived, it is difficult to confidently assess the “all-in” or total resource cost of efficiency or analyze potential influences on the total cost of the efficiency resource. For these reasons, in Figure ES-4, we compare the program administrator’s levelized CSE vs. a total resource levelized CSE for illustrative purposes only. We calculate this total resource CSE for the simplified program categories where both program administrator and participant costs are available for more than 18 program years.⁷

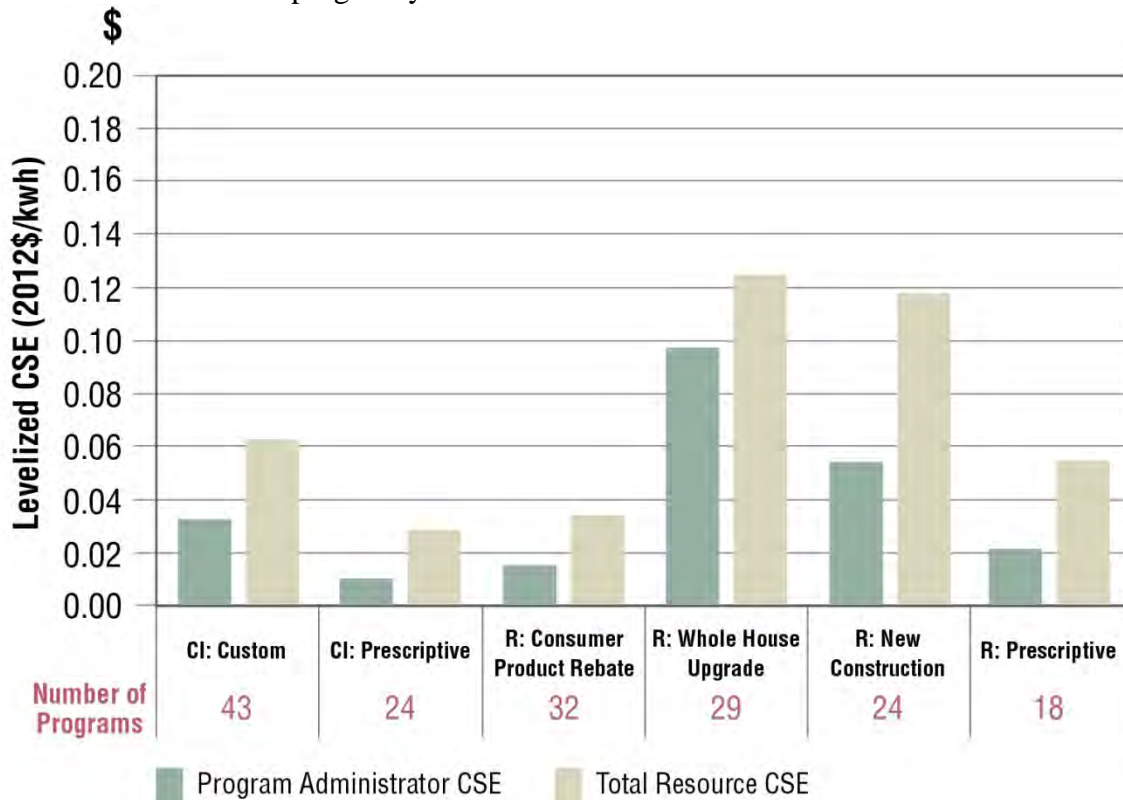


Figure ES-4. Levelized savings-weighted average CSE for electricity efficiency programs that include program administrator costs vs. total resource costs for select program categories⁸

⁷ The “n” of 18 was selected because there was a natural break in the data and there were a meaningful number of programs from which to calculate average values.

⁸ This chart includes a very small sample of programs from 11 states; thus, results may not reflect current practices in many jurisdictions.

For this small sample of programs, we found that the levelized total resource CSE values are typically double the program administrator CSE with the exception of the Residential Whole Home Upgrade program category (which has a savings-weighted total resource CSE about 25-30% higher than the program administrator CSE). Further data collection and analyses could better characterize the way in which the ratio of program administrator costs to participant costs varies as a function of sector, measure types, and market maturity; and how incentives and direct support might be optimized to pay no more than is necessary to meet a state's efficiency policy objectives.

Observations and Recommendations on Reporting

In calculating the CSE, we utilized information on program administrator costs, annual energy savings, estimated lifetime of measures installed in a program, and an assumed discount rate. However, with respect to current program reporting practices, we observed several challenges to the collection of this data for the purposes of calculating the CSE:

- Inconsistencies in the quality and quantity of the costs and savings data led LBNL to develop and attempt to apply consistent data definitions in reviewing and entering program data:
 - Program administrators in different states did not define savings metrics (e.g., varying definitions of net savings) and program costs consistently; and
 - Market sectors and program types were not characterized in a consistent fashion among program administrators.
- Many program administrators did not provide the basic data needed to calculate CSE values at the program level (i.e., program administrator costs, lifetime savings or program-average measure lifetimes), which can introduce uncertainties into the calculation of CSE values (as we developed and utilized methods to impute missing values in some cases).

As a practical matter, the quality and quantity of program data reported by program administrators is an important factor in assessing energy efficiency as a resource in the utility sector. Additional rigor, completeness, standard terms, and consensus on at least essential elements of reporting could pay significant dividends for program administrators and increase confidence in energy efficiency savings among policymakers and other stakeholders, particularly in situations where efficiency is treated as a resource in utility procurement decisions, ISO/RTO forward capacity markets or as an environmental compliance or mitigation option by state or federal environmental agencies.

Of the 45 states currently running utility-customer funded efficiency programs (Barbose et. al. 2013), only 31 states provided reporting with sufficient transparency to complete a program-level CSE analysis, and almost all of the 31 states' data required some interpretation for purposes of regional or national comparison. With more consistent and comprehensive reporting of program results, additional insights can quite possibly be obtained on trends in the costs of energy efficiency as a resource as program administrators scale up efforts, what saving energy costs among an array of strategies, and what and how cost efficiencies might be achieved.

Therefore, we urge state regulators and program administrators to consider annually reporting certain essential data fields at a portfolio level and more comprehensive reporting of program-level data in order to facilitate the comparison of efficiency program results at state, regional and national levels. A diagram illustrating this reporting hierarchy approach can be found in Chapter 5, Figure 5-1.

As part of the LBNL CSE Project, we intend to continue collecting energy efficiency program data and analyzing and reporting the CSE for efficiency actions funded by utility customers. We also plan to:

- Work with state, regional and national stakeholders to encourage the collection of program cost and impact data using a common terminology and program typology as defined in this report and a companion policy brief (Hoffman et al. 2013). This is important for organizing program data into appropriate and consistent categories so that programmatic energy efficiency, as a regional and national resource, can be reliably assessed.
- Annually compile data reported by program administrators and state agencies from across the United States.
- Conduct additional analyses to help increase understanding of factors that influence EE program impacts, costs and the cost of saved energy.

1. Introduction

Demand side management (DSM), and end-use energy efficiency specifically, is increasingly being relied upon as a resource for meeting electricity and natural gas system needs within the United States, often because efficiency is quite cost-effective compared to other resource options. For example, 15 states have enacted long-term, binding energy savings targets, often called Energy Efficiency Resource Standards (EERS), and another five states have mandates that program administrators must acquire “all cost-effective energy efficiency.”⁹ In 2011, U.S. energy efficiency program administrators that manage utility customer-funded efficiency programs spent about \$5.4 billion on electric and gas energy efficiency programs (CEE 2013), with spending projected to possibly more than double by 2025 (Barbose et al. 2013).

Electric and natural gas energy efficiency in the United States is pursued through a diverse mix of policies and programmatic efforts, which support and supplement private investments by individuals and businesses. These efforts include federal and state minimum efficiency standards for electric and gas end-use products; state building energy codes; a national efficiency labeling program (ENERGY STAR[®]); tax credits; and a broad array of largely incentive-based programs for consumers, funded primarily by electric and natural gas utility customers (Dixon et al. 2010) (Barbose et al. 2013).¹⁰

These utility customer-funded efficiency programs are overseen by state regulators and administered by more than 100 different entities (e.g., utilities, state energy agencies, non-profit and for-profit third parties) and are the focus of this study. Policymakers, regulators, program administrators and implementers rely on information about lifetime costs and savings of these customer-funded efficiency programs to assess efficiency’s potential, to design and implement programs in a cost-effective manner or to improve program cost effectiveness. Given the expected growth in efficiency funding and the importance of understanding the cost of saved energy (CSE), we initiated this LBNL Cost of Saved Energy Project (CSE Project) to provide a resource for policy makers, regulators and the efficiency industry as a whole.

1.1 Assessing Energy Efficiency as a Resource

The cost and cost effectiveness of utility-customer funded end-use efficiency programs depend on perspective. From the perspective of a participant in a program, their cost is the cost of an efficiency project net of any incentives or support that might be provided by a program administrator. From the program administrator’s perspective, it is the cost of planning, designing, and implementing a program and providing incentives to market allies and end users to take actions that result in energy savings; costs incurred by participants are not considered as part of the program administrator’s costs. The total resource or societal cost perspective takes into

⁹ States with an EERS as of the date of this report are: AZ, CA, CO, HI, IL, IN, MD, MI, MN, MO, NM, NY, OH, PA, and TX. Six states have a mandate to achieve all cost-effective savings: CA, CT, MA, RI, VT, and WA.

¹⁰ For additional energy efficiency market background, please see: The Future of Utility Customer-Funded Energy Efficiency Programs in the United States: Projected Spending and Savings to 2025.

<http://emp.lbl.gov/publications/future-utility-customer-funded-energy-efficiency-programs-united-states-projected-spend>

account the costs paid by both the program administrator and the participant to implement the efficiency action.

Numerous researchers have estimated the CSE for efficiency programs funded by utility customers (see Appendix A for a description of past and current efforts). These researchers have typically focused on the program administrator perspective (i.e., the program administrator CSE), for two primary reasons. First, in some cases, participant costs are often not collected or reported by program administrators in annual reports (see Chapter 2). Second, when comparing efficiency with supply side resources, some consider that the proper metric is the money paid to obtain the resource by the program administrator as supply-side resources do not consider, or have, participant costs. For this report, primarily because of the first reason, we present program administrator CSE data and analyses.

Another consideration for assessing efficiency as a resource is whether CSE values are based on net or gross savings. Net savings are those attributed to a program (for both program participants and non-participants). Gross savings are those associated with the program participants' efficiency actions, irrespective of the cause of those actions. There is debate about the proper use of net and gross savings in CSE calculations (SEE Action 2012); however, since there is neither sufficient nor consistent data available on net savings, we present CSE values based on gross savings in this study.

1.2 Objectives and Scope

This CSE Project presents and analyzes the costs of acquiring energy savings for different efficiency program types and in different market sectors across the United States. Our objectives are to provide insight into the costs associated with saving a unit of energy and the potential factors that influence those costs. To this end, we hope our work will:

- Benefit policy makers, system planners and other stakeholders by providing continually improving CSE indicators that enable projections of future spending and savings.
- Enable more cost-effective efficiency programs by:
 - Benchmarking and comparing program implementation approaches across different markets (e.g., industrial, commercial, small commercial), delivery mechanisms (e.g., direct install versus do it yourself), and design approaches (e.g., prescriptive versus custom rebates);
 - Analyzing contextual factors that affect CSE, such as types of programs, measures, program administrator experience, changes in building energy codes and standards, labor costs, climate, state-level policies, and the scale of efficiency investments.

This study is the first technical report of the LBNL CSE Project and provides an overview of project scope, approach and initial findings, including:

- Providing a *proof of concept* that the program-level cost and savings data can be collected, organized and analyzed in a systematic fashion;

- Presenting initial program, sector and portfolio level results for the cost of saved energy for a recent time period (2009-2011); and
- Encouraging state and regional entities to establish common reporting definitions and formats that would make the collection and comparison of CSE data more reliable.

Specifically, this report includes and discusses elements of our approach, including the following:

- Developing the data collection, documentation, and analyses procedures LBNL used to calculate the CSE (Chapter 2);
- Defining program categories as well as cost and savings definitions that allow for consistent, standardized entry of program administrator data into a CSE database (Chapter 2);
- Developing a database of program-level data on energy efficiency program impacts and costs from states with significant utility customer-funded energy efficiency programs (Chapter 2);
- Presenting the range of regional-, state-, sector-, and portfolio-level energy-efficiency program administrator CSE and program-level CSE for a defined set of over 60 program categories (Chapter 3);
- Exploring potential relationships between the program administrator costs of saved energy for specific types of programs and climate zones and adopted building energy codes (Chapter 3);
- Conduct a preliminary statistical analysis that explores factors that may be associated with and influence the cost of saved energy at the portfolio or program level and set the stage for future analyses that will assess additional hypotheses and a broader, more refined range of factors (Chapter 4); and
- Present recommendations for future data collection and analyses (Chapter 5).

1.3 Report Organization

The remainder of this report is organized as follows. Chapter 2 provides an overview of approach used to collect data in the LBNL DSM Program Impacts Database and the challenges associated with collecting, organizing and analyzing the data in a consistent fashion. In Chapter 3, we present descriptive statistics on efficiency program costs and savings followed by presentation of CSE statistics at a national, sector, regional, and state level and for certain program types and in relation to climate zones and building code status. In Chapter 4, we discuss our efforts to define and statistically test some factors that may influence the CSE. Chapter 5 presents a discussion of the key findings and recommendations for regulators and program administrators to consider with respect to CSE-related data collection and reporting.

The appendices contain documentation on topics covered in the chapters, including tables of CSE metrics by region, sectors, and program types in Appendix E.

2. Approach

The state-by-state evolution of utility customer-funded energy efficiency programs has fostered diversity in these programs' oversight, design, administration and evaluation. Thus, not surprisingly, information provided to state regulators by program administrators on the impacts and costs of efficiency programs is diverse with respect to the level of specificity and detail required as well as terms and definitions used to describe the costs and impacts of individual programs. In this chapter, we summarize our assembled program data, discuss our approach to compiling, organizing and analyzing the data in a manner that addresses the diversity in reporting practices yet allows for consistent reporting on the cost of saved energy across the country and on the basis of region, market sector, and type of program. This approach included developing an energy efficiency program typology and adopting standard definitions for program characteristics, cost and savings data. We also discuss several major challenges associated with collecting and analyzing program cost and impact data and calculating CSE values given data quality issues.

2.1 Data Summary

The data for this study were drawn from annual reports, mostly for the years 2009–2011, which were prepared by program administrators of efficiency programs funded by the customers of U.S. investor-owned utilities in 31 states. Our energy efficiency program data set comprises expenditure, energy savings and program participation data (where available) reported by 107 program administrators, for a total of 4,184 program records (see Table 2-1).

We relied primarily on annual DSM or efficiency reports filed by program administrators with state regulatory agencies because they both typically include data for a portfolio of programs and are publicly available from state regulatory commission filings.¹¹ In some cases, when data were not found or were ambiguous in annual reports, we consulted other reports (e.g., other performance metrics reports filed by investor-owned utilities in California) or solicited additional information directly from the program administrator or regulatory staff. Where required data were not provided in a program administrator's filed annual report, but provided in third-party program evaluation reports that were included as attachments to the program administrator annual reports, we used data from both to populate what we are calling the LBNL DSM Program Impacts Database (database).^{12,13}

¹¹ The states included in this analysis were selected based on the availability and transparency of program cost and savings data at the individual program level as identified by LBNL researchers in a recent review of customer-funded energy-efficiency programs (Barbose et al. 2013). To the extent that reports were accessible, we collected data for all investor-owned utilities (IOUs) in the target states. Many program administrators had not yet released 2012 program year results during the data collection period for this study; thus our analysis focuses on the 2009–2011 period. We did not include program data from publicly-owned electric utilities and rural electric cooperatives because these utilities often do not report program level data that is publicly available. Future efforts may include data collected from public utilities.

¹² We did not rely on individual impact evaluation studies of efficiency programs because the data of interest to this project are usually reported in relatively easily accessible summary form and per program in the annual reports filed with regulators. Moreover, evaluations of individual programs are not always publicly available nor do they always include program or portfolio-related costs.

¹³ Appendix C describes data that was collected for this research effort, the database configuration, and the data quality assurance/quality control process and procedures.

Table 2-1. Summary of energy efficiency program data in LBNL DSM Program Impacts Database¹⁴

| State | First Year of Data | Last Year of Data | Total # of Years | Number of Program Administrators* | Number of Program Records |
|-------|--------------------|-------------------|------------------|-----------------------------------|---------------------------|
| AZ | 2010 | 2011 | 2 | 3 | 65 |
| CA | 2010 | 2012 | 3 | 4 | 1210 |
| CO | 2009 | 2011 | 3 | 1 | 110 |
| CT | 2009 | 2011 | 3 | 4 | 60 |
| FL | 2011 | 2011 | 1 | 5 | 88 |
| HI | 2009 | 2011 | 3 | 1 | 21 |
| IA | 2009 | 2011 | 3 | 3 | 171 |
| ID | 2010 | 2011 | 2 | 1 | 40 |
| IL | 2008 | 2011 | 4 | 2 | 85 |
| IN | 2009 | 2012 | 4 | 5 | 244 |
| MA | 2009 | 2011 | 3 | 11 | 403 |
| MD | 2010 | 2011 | 2 | 4 | 126 |
| ME | 2009 | 2011 | 3 | 2 | 22 |
| MI | 2009 | 2011 | 3 | 2 | 81 |
| MN | 2009 | 2011 | 3 | 2 | 141 |
| MT | 2011 | 2011 | 1 | 1 | 19 |
| NC | 2009 | 2011 | 3 | 2 | 37 |
| NH | 2009 | 2011 | 3 | 4 | 90 |
| NJ | 2009 | 2011 | 3 | 1 | 40 |
| NM | 2010 | 2011 | 2 | 4 | 101 |
| NV | 2009 | 2011 | 3 | 3 | 209 |
| NY | 2009 | 2011 | 3 | 11 | 111 |
| OH | 2009 | 2011 | 3 | 7 | 170 |
| OR | 2009 | 2011 | 3 | 2 | 16 |
| PA | 2009 | 2010 | 2 | 6 | 143 |
| RI | 2010 | 2011 | 2 | 2 | 36 |
| TX | 2010 | 2011 | 2 | 10 | 202 |

¹⁴ “Number of Program Records” includes programs that produced energy savings (e.g., residential or commercial rebate programs), programs for which the program administrator did not claim savings (e.g., education and outreach programs or pilot programs), and, in some cases, sector- or portfolio-wide activities (e.g., marketing or internal program evaluation activities).

| State | First Year of Data | Last Year of Data | Total # of Years | Number of Program Administrators* | Number of Program Records |
|---------------|--------------------|-------------------|------------------|-----------------------------------|---------------------------|
| UT | 2009 | 2011 | 3 | 1 | 41 |
| VT | 2009 | 2011 | 3 | 1 | 18 |
| WA | 2010 | 2011 | 2 | 1 | 42 |
| WI | 2009 | 2011 | 3 | 1 | 42 |
| Totals | | | | 107 | 4184 |

* In some cases, program administrators who run both gas and electric programs are counted twice for the purposes of separating the reported effects of each program.

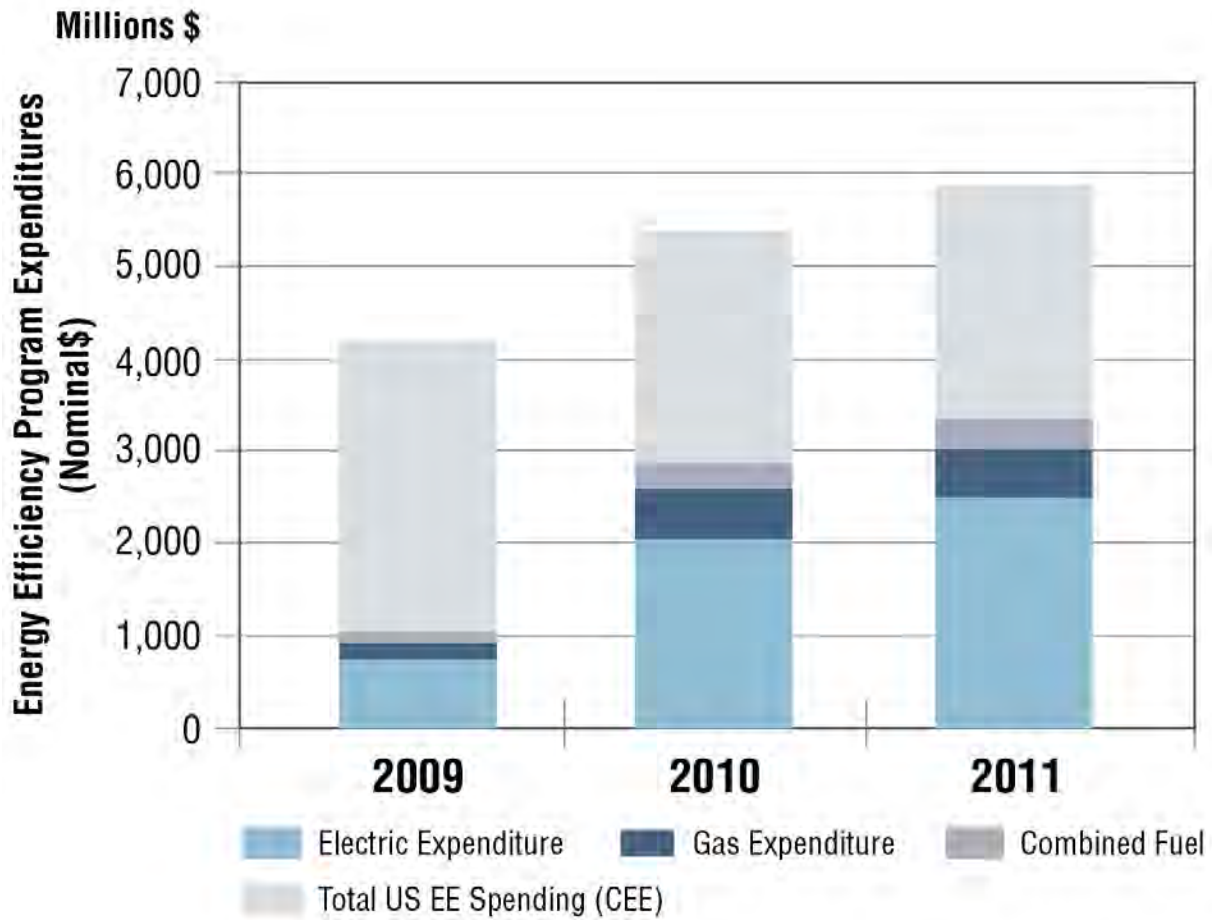


Figure 2-1. LBNL DSM Program Impacts Database coverage as compared to national efficiency spending reported by Consortium for Energy Efficiency (CEE)¹⁵

¹⁵ CEE Annual Industry Reports can be found here: <http://www.cee1.org/annual-industry-reports>

The efficiency program data that were compiled by LBNL staff into the database represent a significant share of all efficiency programs funded by utility customers in the United States. The database contains programs with total program administrator expenditures of about \$7.6 billion (see light and dark blue shading in Figure 2-1). Programs in the LBNL database represent about 25% (\$1.1 billion) of 2009 national program expenditures by gas and electric utilities and about 50% of program expenditures in 2010 and 2011 (\$2.9B in 2010 and \$3.2B in 2011), compared to national efficiency spending as reported by the Consortium for Energy Efficiency (CEE) (see Figure 2-1).¹⁶

2.2 Program Typology and Standardized Definitions

We developed program categories in order to characterize and analyze similar types of efficiency program types, as defined by market sector and technology, action, delivery approach, or other common themes. Examples of program categories include commercial prescriptive HVAC programs, low-income programs, and residential whole home direct-install programs. Some program categories are relatively well defined and include a narrow set of technologies (e.g., high-efficiency windows or pool pumps), while other categories are cross-cutting, may span a wide variety of activities (e.g., statewide marketing, take-home energy efficiency kits), and/or target several market sectors (e.g., in-school education programs, lighting technology market transformation programs).

The typology grouped and classified energy efficiency programs into three tiers: (1) sector; (2) simplified program categories; and (3) detailed program categories. Figure 2-2 provides a partial snapshot of this three-tiered program typology approach: seven sectors (including one for demand response programs, which are not addressed in this report), 31 simplified efficiency program categories (27 for efficiency programs) and 66 detailed categories (62 for efficiency).¹⁷ LBNL has prepared a policy brief that describes the typology in more detail as well as the standardized definitions (Hoffman et al 2013). Appendix B also includes the complete typology and set of definitions.

We determined that a three-tiered hierarchy was appropriate because it allowed for flexibility in grouping programs for comparison (e.g., single-measure versus comprehensive whole-building programs or by technology such as lighting vs. HVAC programs) and provides options for different levels of analysis. Moreover, in some cases, the detailed program category tier narrowed the range of installed measures for a program type, thus reducing the uncertainty in derivation of measure savings and lifetime savings across measures installed in that program. For example, we defined three detailed program categories that fall under the simplified program

¹⁶ However, as noted below and in Chapter 3, some of the data were not utilized for the data presentations, CSE metrics and analyses due to missing data. For example, the programs indicated as Combined Fuel in this figure were not included in the cost of saved energy analyses, because the costs borne by electricity and gas utility customers could not be determined for this subset of programs. Without the useable data, the database still contains about 45-50% of the national spending estimate.

¹⁷ The relatively large number of simplified and detailed categories was necessary to capture the wide range of common program offerings throughout the country. We also included some program types in the detailed typology because they have regional significance (e.g., pool pump programs in the Southwest, data center programs in New York, Washington and California), or the program types appear to be emergent (e.g., financing programs, residential behavior-based efficiency programs).

category of “Whole Home Upgrades”: Whole Home Audit Programs; Whole Home Direct-Install Programs; and Whole Home Retrofit Programs.¹⁸

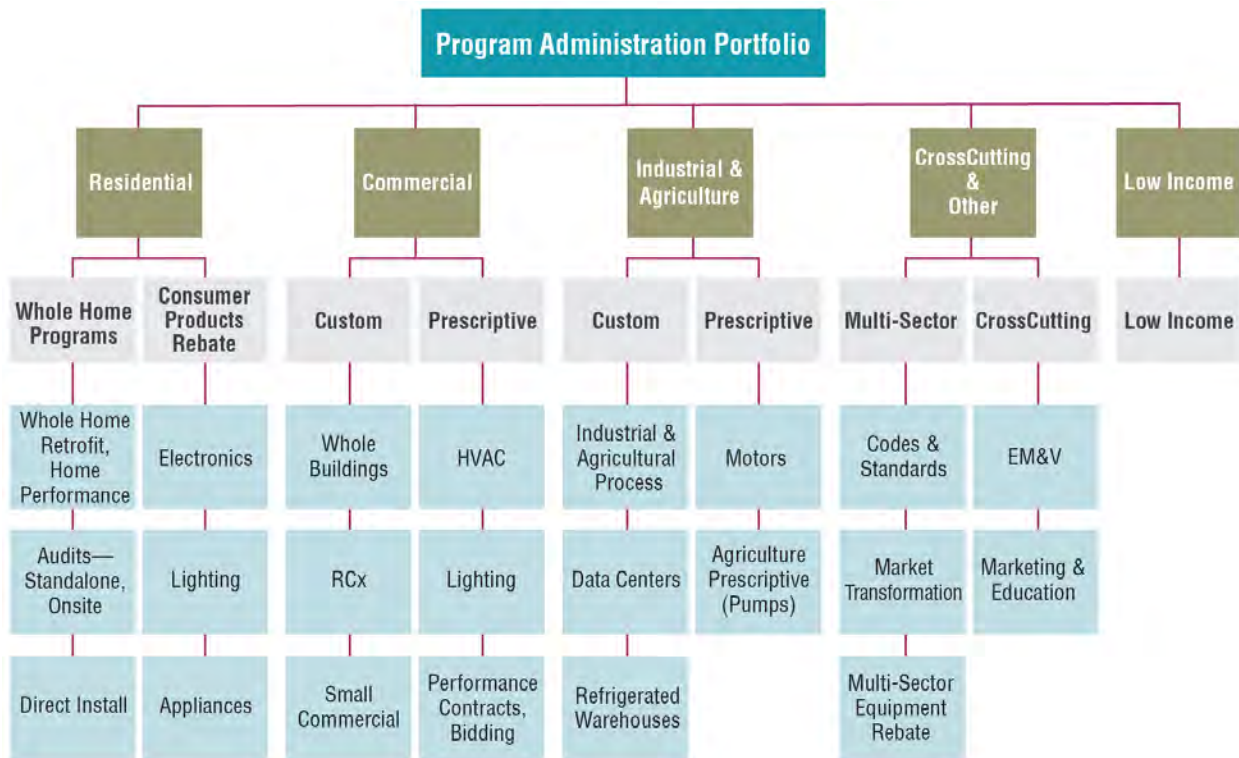


Figure 2-2. Selected program types in the LBNL program typology
Note: Not all sectors and simplified and detailed program categories are shown

We have relatively high confidence in the categorization of most programs. However, there are some programs where we were either not able to obtain much information about the measures offered under that program or where there was a wide array of measures offered under a single umbrella program. In both situations, programs were generally categorized under “prescriptive” or “other” categories. The mix of programs and measures in these two types of categories are likely to be less consistent than in other program categories.

The data fields and specification for the database and program categories were developed through an iterative process which included review of program administrator annual reports and review of several other sources that contain typologies and/or definitions, including the State and Local Energy Efficiency Action Network (SEE Action 2012), the Consortium for Energy Efficiency (CEE 2012), the Regional EM&V Forum of the Northeast Energy Efficiency

¹⁸ We found that program names were not always indicative of the appropriate program category. Thus, in many cases, we reviewed program information as part of the process of classifying programs into program category. We defined a specific set of guidelines for classifying programs by type. For example, when the program name was ambiguous (e.g., EnergySaver) or when the program description indicated savings could fall into more than one detailed or simplified category (e.g., a single program that offered both prescriptive and custom rebates), we looked at the measure-level savings reported for that program (if available) and categorized the program according to the reported measure mix.

Partnerships (NEEP 2011), and the NEEP Regional Energy Efficiency Database (REED 2013). We shared a draft of our categories and definitions and had several discussions with representatives from CEE, NEEP and the American Council for an Energy-Efficient Economy (ACEEE); and made revisions based on their input. For the demand-response program categories, we relied on program categories defined by the Federal Energy Regulatory Commission (FERC) for its national surveys (FERC 2012), although demand-response program data are not included in this study.

We also defined program cost and energy savings (impacts) data fields as part of our effort to classify and report program information in a consistent fashion across program administrators and states.¹⁹

- **Program Administrator Costs:** The primary cost data used in this report are the *program administrator costs* which include: (1) program administration planning and delivery; (2) engineering or technical support; (3) services provided by implementation contractors; (4) marketing, education and outreach; (5) direct rebates or financial incentives to program participants; and (6) evaluation, measurement and verification costs (see Table 2-1).²⁰ Program administrator costs exclude participant costs and performance incentives for program administrators (e.g., utility shareholder incentives).²¹ For each program we collected from one to four years of data.²² We made inflation adjustments to the program cost data provided by program administrators so that all cost data are reported in 2012\$.²³ We chose to use 2012 as our base year because 2012 is the most recent year for which an annual implicit price deflator for GDP is available from the U.S. Bureau of Economic Analysis. We would have preferred to also report CSE values based on participant, as well as program administrator, costs; however, we found that few program administrators reported participant costs in their annual reports (see Appendix C).
- **Program Savings:** The State and Local Energy Efficiency Action Network's Energy Efficiency Program Impact Evaluation Guide (SEE Action 2012) was the primary source used to describe and define the program energy savings indicators in a consistent fashion.²⁴ The SEE Action Guide was particularly important for providing

¹⁹ Program cost and savings definitions tend to be consistent within a state, even if there are multiple program administrators.

²⁰ Some program administrators did not include program-level costs for activities such as marketing/outreach, education, and evaluation, but instead accounted for those expenditures at the sector or portfolio level.

²¹ We did not report program administrator performance incentives because actual awards of performance incentives are not often included in annual reports filed by program administrators, and are frequently awarded at a significantly later date.

²² Some program administrators included prior years' data in their reports in addition to the 2009–2011 period.

²³ Costs can be presented in nominal (or current) or real (or constant) dollar terms. Nominal values are economic units measured in terms of purchasing power of the date in question. Real dollar values are economic units measured in terms of constant purchasing power. A real value is not affected by general price inflation and can be estimated by deflating nominal values with a general price index, such as the implicit deflator for gross domestic product or the Consumer Price Index. From OMB *Circular A-94 Guidelines And Discount Rates For Benefit-Cost Analysis of Federal Programs*. We used the GDP implicit price deflator published regularly by the U.S. Bureau of Economic Analysis.

²⁴ The SEE Action Guide describes common terminology, structures, and approaches used for determining savings from energy efficiency programs guide. The definitions in the SEE Action Guide incorporated input from program

data definitions for net and gross energy savings and lifetime energy savings, which for this report are assumed to take place at the end-use site where the efficiency actions were implemented.

Table 2-2 provides abridged definitions for key program data in the Database (see Appendix B for the complete glossary of energy efficiency program data fields).

Table 2-2. Abridged definitions for selected program cost and savings data

| Term | Definition |
|---|---|
| Program Administrator Costs | Program administrator costs include the costs of designing programs and portfolios; directing, managing and paying implementation contractors; marketing, education and outreach (ME&O); program and portfolio evaluations; and incentives to both program participants (or end users) and to both mid-stream and upstream allies in the market (e.g., financing and services such as installations or free audits). |
| Program Average Measure Lifetime | Weighted average economic lifetime (years) of all measures installed in a program year in a specified program. |
| Annual Gross Savings | Gross annual incremental savings (kWh or therm) as reported by the program administrator using their own staff or evaluation firm, after the subject energy efficiency activities have been completed. Gross savings are the change in energy consumption resulting from program-related actions taken by program participants regardless of why they participated. Note that these are annualized “full-year” savings, regardless of when measures were installed during the program year. Per the SEE Action reference (SEE Action 2012) these may be Claimed or Evaluated Savings. |
| Lifetime Gross Savings | The expected gross savings (GWh or therm) over the lifetime of the measures installed under the subject program. For our analysis, where available, we relied on lifetime savings reported by the program administrator. |

The detailed program categories and data definitions described in this section have been adopted by CEE for its own 2013 annual surveys of the efficiency program industry.²⁵ We hope that other entities will consider using them as well and to support that objective, as part of the CSE Project, LBNL plans to gather feedback from stakeholders via an annual or biennial process to modify, add or subtract program categories as program offerings change or to address potentially needed clarifications in the definitions and categories.

administrators, state regulators, and other stakeholders from a number of states and regions and included a review and synthesis of definitions used in a broad set of energy efficiency glossaries.

²⁵ As part of its 2013 annual “State of the Industry” survey, CEE is collecting program-level energy efficiency and demand response program data from program administrators using the LBNL program categories described in this report as well as the definitions from the SEE Action guide.

2.3 Challenges in Consistent and Standardized Reporting of Program Data

When data are compiled from multiple states and program administrators, terminology differences can potentially make it difficult to conduct comparative analysis across states or program administrators. This was a primary rationale underlying our effort to develop a program typology and standardized definitions so that we could conduct a comparative analysis of energy efficiency program impacts and costs. However, even with the typology and definitions, there are two key data challenges.

First, we assume that all expenditure, savings and participation data reported by a program administrator are accurate. Given our time and resources, this is a reasonable starting assumption; however, it should be noted that the range of effort placed into documenting impacts by program administrators varies significantly among states (SEE Action 2012).

Second, in reviewing information on efficiency programs funded by U.S. utility customers, we found that program data are often not defined and reported consistently among states. Specifically, we identified three key concerns in compiling and analyzing program information on a regional or national basis, some of which are addressed by the common typology and standardized definitions:

1. ***Energy savings and program costs are not defined consistently.*** The most common discrepancies can be found in the definitions of net energy savings. Examples of other program data where differences are found across states include:
 - The term “annual energy savings” typically is understood as shorthand for annualized incremental energy savings, but some entities—including resource planners—apply a different meaning that includes savings resulting from prior years’ activities.
 - The definition of measure lifetime, how a program’s average measure lifetime is determined, and the estimated measure lifetime values for the same measures or program types varies among states.
 - Some program administrators report end-use site savings and others report savings at the power plant bus bar (for electricity efficiency programs).
 - Most program administrators do not count their own performance incentives among program costs, although some do. The definitions of other cost categories (e.g., marketing costs, general consumer education, and evaluation) also vary among states.
2. ***Program data are not reported consistently across states.*** For example, some states report just gross or net energy savings; others report both. Similarly, many efficiency annual reports only include first-year savings and not lifetime savings.²⁶ With respect to cost data, program administrators often classify costs differently among administration, marketing and outreach, incentives and participant costs. Some program administrators

²⁶ We found that only about a quarter of the program reports that were reviewed included information on measure lifetimes or lifetime savings, although this information is required to assess program cost effectiveness. See below, in the section on adjustments for missing data, for discussion of how measure lifetime variation creates uncertainty in the calculation of CSE.

also report certain costs (e.g., marketing, evaluation) at the portfolio or sector level, while others account for those costs at the program level.

3. ***Programs and sectors are not characterized in a standardized fashion.*** Programs targeting specific building types or consumers can be included under different sectors from state to state (e.g., multi-family residential structures are sometimes categorized as commercial programs). Moreover, the types of activities and measures that are included under the same program title (e.g., custom vs. combination custom/prescriptive programs) also vary.

We suggest that readers consider these above issues when utilizing the information in this report for their own uses and understanding of the cost of saved energy.

2.4 Calculating and Using the Cost of Saved Energy

The program administrator's CSE is a useful metric for comparing the relative costs of efficiency programs and for comparing an energy efficiency option to other demand and supply choices for serving electricity and natural gas needs²⁷. However, the cost of saved energy is not a test of cost effectiveness (e.g., one of the screening tests used by program administrators) because: (1) it does not capture the full benefits to utility customers and shareholders (e.g., avoided generation capacity, avoided transmission and distribution investments, avoided environmental compliance costs); (2) benefits are not monetized but reflected simply in energy units of kilowatt hours or therms, the cost of which will vary by utility; and (3) energy is saved at the end use, not the power plant.²⁸

In this report, we use gross energy savings (rather than net savings) in the CSE calculations primarily because of data availability and comparability reasons: (1) more administrators reported gross savings than net; and (2) net savings are defined relatively inconsistently, as compared to gross savings, among program administrators and states.

We also report savings at the end-user level (and not at the busbar or power plant source), because this is what most program administrators report. It is important to note that savings from electricity efficiency programs reported at the busbar would be higher than at the end-use level because we are accounting for distribution and transmission losses (losses also occur in the natural gas network as well).²⁹

²⁷ According to the Energy Information Administration, "levelized cost is often cited as a convenient summary measure of the overall competitiveness of different generating technologies. It represents the per-kilowatt hour cost (in real dollars) of building and operating a generating plant over an assumed financial life and duty cycle. Key inputs... include overnight capital costs, fuel costs, fixed and variable operations and maintenance (O&M) costs, financing costs, and an assumed utilization rate for each plant type.
http://www.eia.gov/forecasts/aeo/electricity_generation.cfm

²⁸ The equation also is inverted, with costs in the numerator and benefits (in energy units) in the denominator—the reverse of the benefit/cost ratios that are a key determinant of cost effectiveness.

²⁹ This is an important consideration if the CSE values were to be compared with costs of electricity generation resources, which typically are indicated as busbar values.

We calculate the cost of saved energy (CSE) metrics in three ways: (1) a cost of lifetime saved energy; (2) a levelized cost of energy savings using two discount rates (3% and 6% real); and (3) a cost of first-year energy savings. See Table 2-3 for definitions of these CSE metrics and their common uses.

Table 2-3. Program administrator cost of saved energy metrics: definitions and potential uses

| Program Administrator Cost Metric | Shortened Term | What is Measured | Potential Uses |
|--|----------------|---|--|
| Cost of Lifetime Energy Savings | Lifetime CSE | The cost of acquiring energy savings that accrues over the economic lifetime of the actions taken through a program/sector/portfolio. Calculated by dividing program administrators' costs by the gross savings. | <ul style="list-style-type: none"> • Used by program administrators for designing programs and portfolios, e.g., for depth of savings and cost effectiveness • Used by planners and other stakeholders to project efficiency as a resource, develop load forecasts, etc. |
| Levelized Cost of Energy Savings | Levelized CSE | The cost of acquiring energy savings that accrue over the economic lifetime of the actions taken through a program/sector/portfolio, amortized over that lifetime and discounted back to the year in which the costs are paid and the actions are taken | <ul style="list-style-type: none"> • Same uses as lifetime savings • Useful to program administrators, regulators and other stakeholders who want to compare particular demand-side options with other demand, and supply-side, resources |
| Cost of First-Year Energy Savings | First-Year CSE | The cost of acquiring a single year of annualized incremental energy savings through actions taken through a program/sector/portfolio. Calculated by dividing the program administrators' costs by the first year incremental savings. | <ul style="list-style-type: none"> • Useful for program administrators in program design |

The cost of saved energy can be useful to various stakeholders. For example, state regulators can use both first-year and lifetime CSE values as quick metrics for assessing whether a program or portfolio looks like a reasonable expenditure of utility customer funds. A program administrator that is considering offering a comprehensive residential energy upgrade program may want to compare that program's estimated per-unit cost performance against average costs and the range of costs for similar programs. Based on the comparison, the program administrator may want to

look at the design of comparable programs for potential cost efficiencies. Regulators and resource planners can use the levelized CSE in the initial screening analysis of various supply- and demand-side resources. Resource planners also can use the lifetime CSE to convert approved budgets for demand-side management plans into energy savings estimates that then can be used in scenario or sensitivity analysis of future load forecasts.

Finally, based on the limited participant cost data reported by program administrators, we calculate a total resource CSE for illustrative purposes in Chapter 3. This calculation presents the net total costs, including both program and participant costs, for the efficiency resource. A levelized total resource CSE might also be useful to program administrators, regulators and other stakeholders who want to compare particular demand-side options with other demand and supply-side resources.

2.4.1 Levelized Cost of Saved Energy

The lifetime cost of energy savings metric is a simple, straight-forward calculation although it ignores changes in the value of money between an initial investment and future energy savings. Meier (1982) included the time value of money (discount rate) to calculate the “cost of conserved energy” (CCE) or what we are calling the “levelized cost of saved energy”. Meier found that inclusion of the discount rate raises the CCE because of discounting future benefits, yet provides a basis for comparing the CCE for measures that have different lifetimes and can be compared to retail rates and levelized costs of supply-side resources.³⁰ A similar accounting framework, the levelized cost of energy (LCOE), often is applied to assessing the economic competitiveness of diverse generation sources (U.S. Energy Information Administration 2013).

We calculated a levelized CSE using two discount rates³¹ that are rough proxies for different perspectives on energy efficiency investments: a 6% real discount rate that can reflect the utility weighted average cost of capital (WACC) at present and a 3% real discount rate that can be a proxy for a societal perspective. The levelized CSE calculation is as follows:

$$\begin{aligned} \text{Levelized CSE (in \$/unit energy, e. g., kWh, therm, Btu)} \\ = (C \times (\text{Capital Recovery Factor})) / (D) \end{aligned}$$

$$\text{Capital Recovery Factor} = [A * (1 + A)^B] / [(1 + A)^B - 1]$$

Where:

A = Discount rate

³⁰ See Appendix A for further discussion of the history of efficiency CSE analyses

³¹ Discount Rate: An interest rate applied to a stream of future costs and/or monetized benefits to convert those values to a common period, typically the current or near-term year, to measure and reflect the time value of money. It is used in benefit-cost analysis to determine the economic merits of proceeding with a proposed project, and in cost-effectiveness analysis to compare the value of projects. The discount rate for any analysis is either a nominal or a real discount rate. A nominal discount rate is used in analytic situations when the values are in then-current or nominal dollars (reflecting anticipated inflation rates). A real discount rate is used when the future values are in constant dollars and can be approximated by subtracting expected inflation from a nominal discount rate (SEE Action Network 2012).

B = Estimated program measure life in years

C = Total program cost in 2012\$

D = Annual kWh saved that year by the energy efficiency program

This formula is the classic definition of a compound interest calculation used to calculate equivalent annual net disbursements.

The discount rate can have a significant impact on the calculated CSE. For example, for a program with an average measure lifetime of 20 years, a discount rate of 6% will indicate a levelized CSE that is about 30% higher than the same program if a discount rate of 3% were used. See Appendix D for further discussion of the factors considered in choosing these two illustrative interest rates.

2.5 Treatment and Adjustments for Missing Data

In calculating CSE for efficiency programs, we encountered several data completeness issues that needed to be resolved:

- Many programs' data included neither program measure lifetime nor gross lifetime savings. This information is necessary to calculate lifetime and levelized CSE;
- Some combined gas and electric program administrators reported separate savings for their electric and gas programs but did not separate their electric and gas program costs; and,
- Most program administrators reported end-use energy efficiency savings while others reported savings at the source of the electricity (generation or busbar savings). Natural gas savings are usually considered the same at the end-use site and at points along the gas distribution, although there is the potential for per unit losses from the natural gas source to the end user.

In addition, for the few program administrators that reported only net savings, we calculated gross savings by dividing reported net savings by a net-to-gross ratio³² when this ratio was provided in related references for the subject programs.³³ Furthermore, some program reports provided no cost data and others provided no savings data; these programs were excluded from the CSE analysis. These adjustments resulted in program data from 100 program administrators in the database being utilized in calculating CSE values in this study.³⁴

³² The net-to-gross ratio is the net program impact (energy savings) divided by the gross program impact.

³³ In Massachusetts and New York, program administrators reported net savings and did not provide net-to-gross ratios in their annual efficiency reports. In these cases, we applied net-to-gross ratios reported in the 2011 REED database and applied the program level ratios to the previous two years included in this analysis (2009-2010). New Hampshire program administrators reported net lifetime savings for 2009-2010. We were not able to generate a gross lifetime or annual incremental savings values needed to calculate the CSE and therefore those years were dropped from the analysis.

³⁴ Data from 100 of the 107 program administrators whose data are in the LBNL DSM Program Impacts Database are included in this Chapter. The seven program administrators that were excluded represent about eight percent of the total costs for programs in the Database. Three program administrators are excluded because their combined gas and electric program costs could not be separated out by fuel type, three program administrators were excluded because they did not report expenditures at the program level, and one program administrator was excluded because it reported net savings in a manner that did not allow determination of gross savings. Two years of program data

2.5.1 Program Average Measure Lifetime

The CSE calculation takes into account the costs incurred to implement the measures, which in the database all occur during the program year,³⁵ and the savings that occur over the lifetime of the implemented measures. However, program administrators reported lifetime savings for only about 44% of the programs years in the collected annual reports (see Appendix C).³⁶ Another way to calculate the lifetime savings is to multiply the first-year savings by the program average measure lifetime (program lifetime)³⁷, which we interpret as the lifetimes of the various measures installed through a program weighted by their respective savings.

However, even fewer program administrators reported any form of a program lifetime—about 26% of electric and 30% of gas programs for the 2009–2011 period (see Appendix C). For the programs that did report a lifetime value, program average measure lifetimes varied widely within many of the detailed program categories.³⁸ For example, the median program lifetime for residential new construction programs is 18 years, with a program life of 14 and 25 years at the 25th and 75th percentile for programs in the database. Figure 2-3 shows the range, inter-quartile range, and median program lifetime values reported for a selected sample of detailed program categories.

Given the limited availability of lifetime savings and program lifetime values, we developed the following set of decision rules, or protocol, for defining lifetime savings for each program in the database:

1. When available, use the program lifetime savings reported for the program by the program administrator;
2. When program administrator did not report program lifetime savings, but did report program average lifetime value, we multiplied this value by the reported first-year savings to calculate the program's lifetime savings;³⁹

from three other program administrators were not used in the CSE analysis because these program administrators reported net savings in a manner that did not allow determination of gross savings; however, the third year of data for those three program administrators was used.

³⁵ Some project installations may be completed after the end of the program year but are accrued to the program year in which the project was initiated (e.g., customer has signed up, equipment installation has been scheduled, equipment installation has begun but not been completed). Some energy efficiency actions also may require ongoing, incremental operations and maintenance expenditures (compared to the baseline equipment), which are not considered in this study, which is consistent with most energy efficiency program assessments.

³⁶ There are more than 4,000 program years in the database, where we count each program in each year of implementation separately.

³⁷ Measure lifetime, also called effective useful life (EUL), is based on the lifetime of equipment installed or measures implemented and measure persistence (as opposed to savings persistence). In many energy efficiency programs, the estimated EUL takes into account both the expected remaining life of the measure being replaced and the expected changes in operational baselines over time (Mass Save 2011, SEE Action 2012).

³⁸ A number of factors may contribute to the variation in reported measure lifetimes including the unique mix of measures implemented for a program (particularly for programs that contain a wide range of longer- and shorter-lived measures) and different assumptions and/or methodologies used to determine measure lifetime used by program administrators.

³⁹ Some program administrators document the average measure lifetime for programs that installed a mix of measures. The most common approach used by program administrators is to weight the program average measure lifetime by respective measure savings. We applied this approach for all of the reported program measure lifetimes.

- For programs where we did not have lifetime savings or measure lifetime data, we calculated a program average measure lifetime for similar programs in the database and used that imputed value along with the program’s first-year savings to calculate program lifetime savings.⁴⁰

For program categories that contained a broad unspecified mix of activities or too few data points to calculate a national program average measure lifetime values, we reviewed technical reference manual lifetime values for specific measures to generate a “national program average measure lifetime” value for that program.⁴¹ Given the wide variation in reported measure lifetimes, our method of calculating a national program average measure lifetime and applying it to programs for which that data are not available introduces uncertainty into the final CSE calculation, particularly for program categories that contain mixes of measures with wide-ranging measure lifetimes. In Chapter 3, we include results of a sensitivity analysis that illustrates the impact of varying measure lifetime assumptions on CSE calculations.

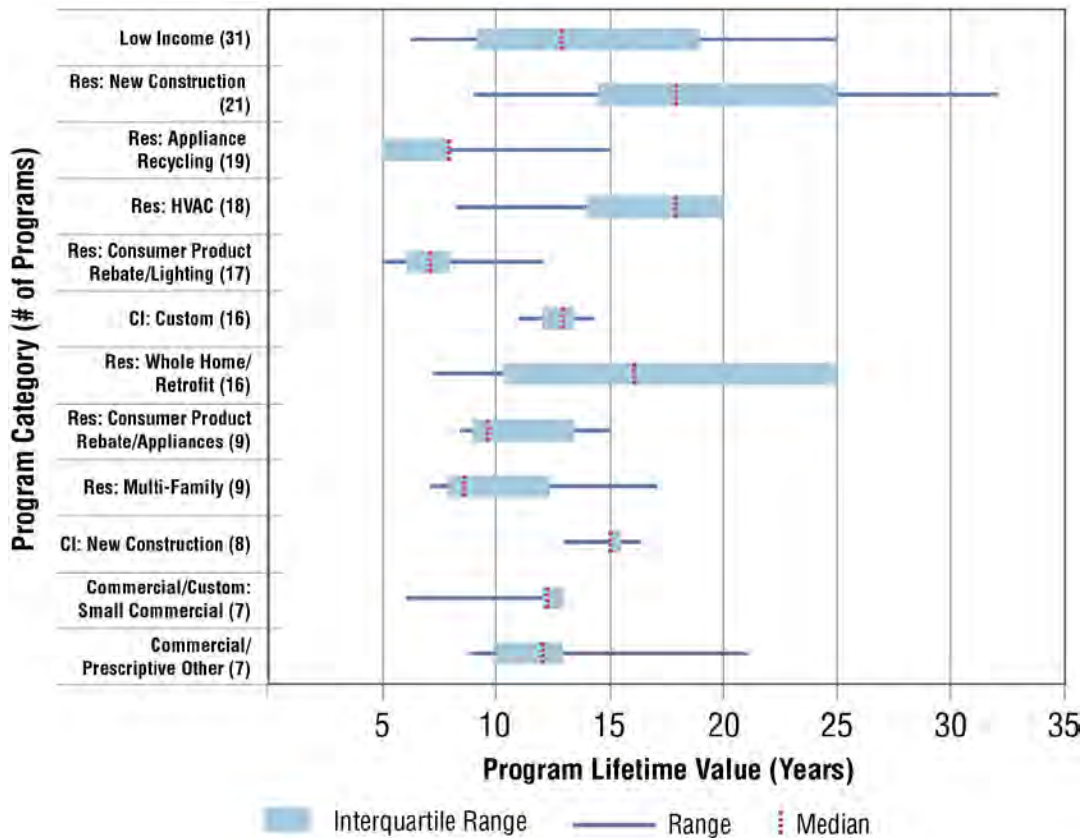


Figure 2-3. Range of reported program average measure lifetime values for select detailed program categories

The authors’ experience indicates that the way in which measure lifetimes are defined, determined and reported are not consistent among program administrators.

⁴⁰We calculated a national program average measure lifetime as follows: divide reported lifetime savings by first-year savings values for each program in the database that reported this information in order to generate a national (un-weighted) program average measure lifetime by program type.

⁴¹ See Table C-3 in Appendix C for the national program average measure lifetime values calculated for each of the detailed program categories.

2.5.2 Cost Data for Combined-Fuel Programs

Some program administrators of combined-fuel programs reported separate electric and gas savings values but did not report separate costs for electric and gas programs or measures. For those program administrators where we could not reliably calculate the per-kWh and per-therm CSE from the reported data, we obtained additional information that enabled us to calculate reasonable estimates of the disaggregated electric and gas expenditures for the following combined fuel utility cases:

- The California combined-fuel utilities did not provide separate electric and gas cost data. However, one of the utilities provided program-level data on the net monetized benefits of the programs, allocated by fuel. We were then able to estimate that utility's combined electric and gas program costs by fuel (electricity and natural gas) based on the program's share of savings allocated to each fuel.
- A New England combined-fuel utility that had not reported separate gas and electric cost data later provided estimates of the ratio of gas and electric costs which were applied to that utility's data.

Other program data from program administrators for which we could not disaggregate electric and gas program costs were included in the overview of program spending and savings presented at the beginning of Chapter 2, but excluded from the dataset used to calculate CSE.⁴²

2.5.3 End-Use versus Source and Busbar Energy Savings

Most state program administrators reported end-use energy efficiency savings; however, there were a few program administrators that reported both end-use and busbar, and a handful that only reported busbar savings. For the purposes of this report, we followed the following decision rules:

- Where program administrators reported both end-use and busbar savings, we used end-use savings;
 - Where program administrators are not clear, or do not explicitly state that the savings is end-use, we treat the savings values as end-use savings;
- Where program administrators only reported a busbar savings value, we identified a line loss estimate and calculated that end-use savings.⁴³

⁴² Wisconsin's single statewide program administrator was included in the program spending and savings overview but excluded from the CSE results because the program administrator did not provide disaggregated electric and gas program expenditures data.

⁴³ For a discussion on line losses, please see: <http://www.raonline.org/document/download/id/4537>

3. Results—Utility Customer-Funded Programs: Costs and Savings

In this chapter, we first present a national overview of electric and gas energy end-use efficiency program administrator expenditures and savings, including summaries by market sector and region for the programs in the LBNL DSM Program Impacts Database (database). We then present ranges of program administrator cost of saved energy (CSE) values, mostly for electricity efficiency programs (as they represent about 80% of program expenditures), on a national, regional, and state basis. Some CSE values are presented at the sector and program level as well. We also include sensitivity analyses on the impact of assumed measure lifetimes on the CSE (one of the data issues raised in Chapter 2). Finally, we present CSE results for those programs where program administrators reported program administrator costs and participant costs (what some refer to as the total resource cost).

The results presented in this chapter represent a significant portion of the efficiency programs funded by customers of U.S. investor-owned utilities during 2009, 2010, and 2011. However, when using the information, the reader should recognize that they are not necessarily a representative sample, particularly for some regions of the country where annual reporting is not prevalent.

Attributes of Information Reported in this Chapter

Costs refer to **program administrator costs** only; the CSE values exclude participant costs unless specifically indicated otherwise.

Savings are based on **gross savings** reported by the program administrator unless specifically indicated otherwise. For program administrators that only reported net savings values, we calculated gross savings values using net-to-gross ratios. Savings values are also based on **savings at the end-use site** and not at the power plant or natural gas pumping station and thus do not account for transmission and distribution losses. See Chapter 2 for more detailed explanation.

Lifetime energy savings, when not reported by the program administrator (which was the case for about 50% of the programs), were calculated per the protocol described in Chapter 2.

3.1 Energy Efficiency Program Administrator Expenditures and Savings

3.1.1 Electric Programs

Program administrator expenditures for identifiable electricity efficiency programs⁴⁴ in the database, for the years 2009–2011, totaled just under \$5.3 billion (in 2012\$) with commercial/industrial programs (C&I) programs representing about 60% of expenditures and residential programs comprising about 30% of the expenditures (see Table 3-1).

In terms of how electricity savings vary by sector for the programs in the database, the answer depends on whether first year or lifetime savings are considered (see Figure 3-1). The savings accruing from C&I sector programs accounted for 53% of the aggregate first-year savings and 62% of the aggregate lifetime savings. Residential programs' share of first-year savings was higher than their share of expenditures; residential programs made up 29% of expenditures but garnered 40% of first-year savings and 31% of lifetime savings. On the other hand, low-income programs represent 6% of the total expenditures and 2% of first-year and lifetime savings.

⁴⁴ Eighty-eight program administrators reported electric program data.

Table 3-1. Program administrator expenditures for 2009–2011 electricity efficiency programs

| Market Sector | Share of Total Program Administrator Expenditures | Total Program Administrator Expenditures (million 2012\$) |
|--------------------|---|---|
| C&I | 61% | \$3,214 |
| Residential | 29% | \$1,515 |
| Low Income | 6% | \$332 |
| Cross Sector/Other | 4% | \$213 |
| TOTAL | 100% | \$5,274 |

We also examined residential expenditure and savings data by simplified program type and found that consumer product rebate programs,⁴⁵ prescriptive rebate programs⁴⁶ and whole home programs⁴⁷ were the top three contributors to expenditures and lifetime electricity savings in the LBNL DSM Program Impacts Database. Combined, these three programs represented 84% of total expenditures and 90% of the lifetime savings for residential programs in our database (see Figure 3-2).

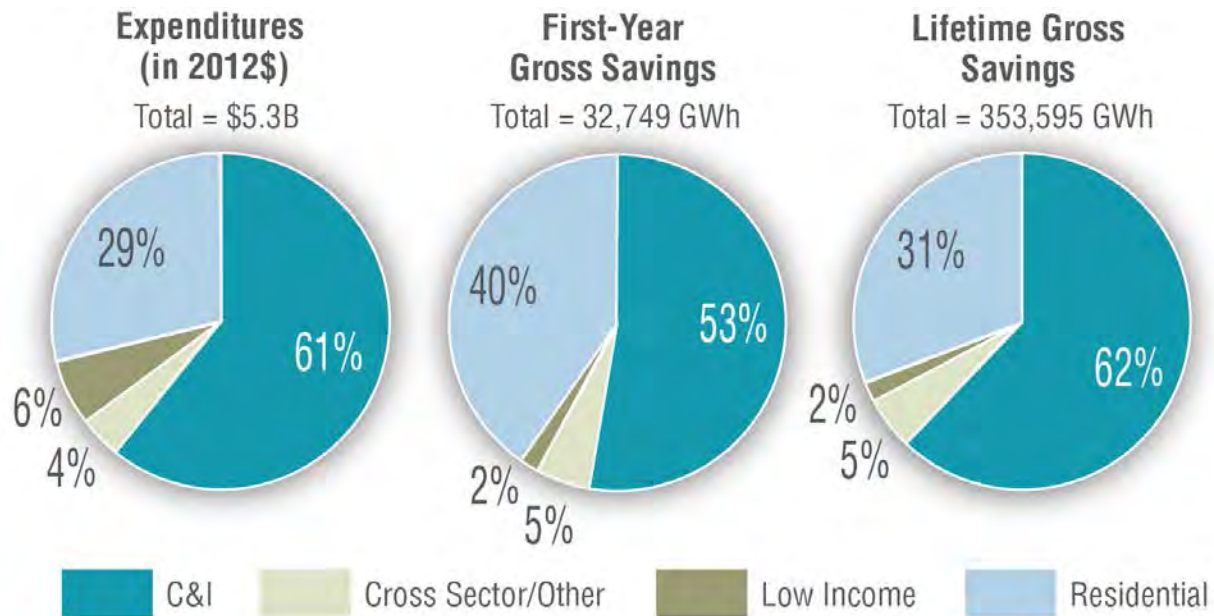


Figure 3-1. Program administrator expenditures, first year and lifetime gross savings for 2009–2011 electricity efficiency programs

⁴⁵ Programs that encourage use of more efficiency products such as appliances, electronics, lighting products, etc.

⁴⁶ Programs that provide pre-defined incentives for installation of cost efficient products such as insulation, windows, water heaters, etc.

⁴⁷ Programs that offer direct install services, audits or incentives for comprehensive packages of efficient products.

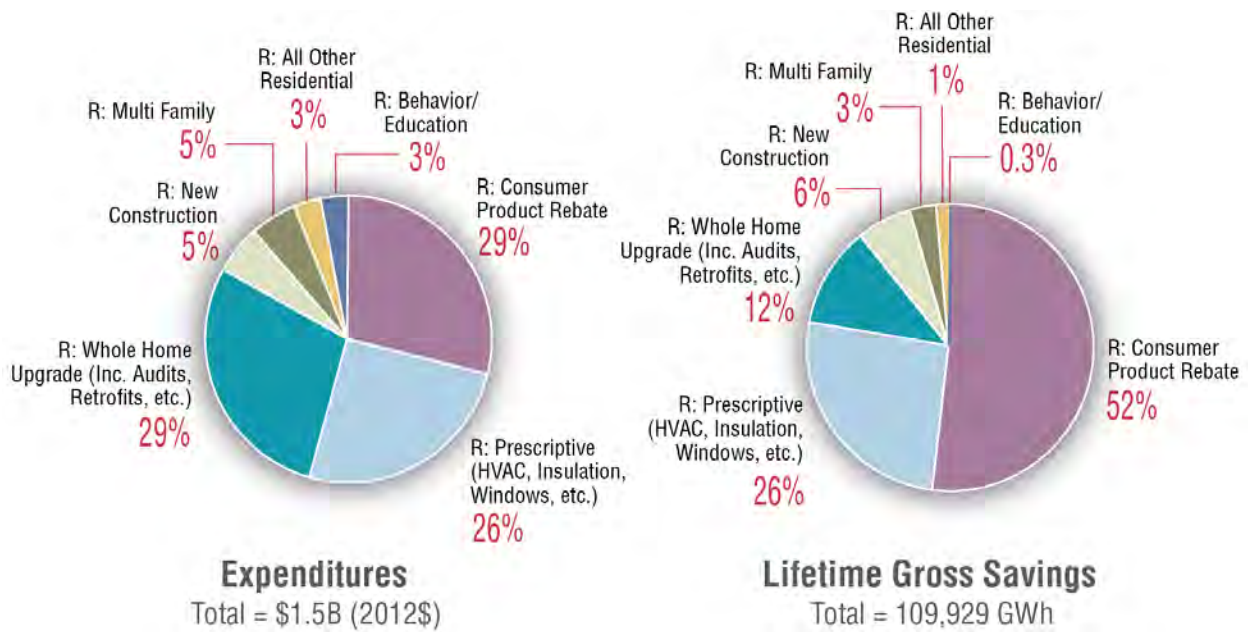


Figure 3-2. Program administrator expenditures and lifetime gross savings by simplified program category for 2009–2011 residential electricity efficiency programs

Other observations from the database’s residential electricity program data, as shown in Figure 3-2, are:

- Consumer Product Rebates accounted for about 29% of total residential program expenditures, but over half of the lifetime savings;
- Residential Prescriptive programs accounted for similar percentages of expenditures and lifetime savings, both 26%;
- Whole Home Upgrade programs represented about 29% of aggregated expenditures and 12% of the lifetime electricity savings;
- New Construction programs accounted for 5% of residential program expenditures and 6% of the sector’s lifetime savings,
- Multifamily programs accounted for 5% of expenditures and 3% of lifetime savings, and
- Behavior and Education programs make up 3% of expenditures but less than 1% of lifetime savings.

To illustrate the power of a program-level database, we analyzed the four detailed program types that are included in the residential Consumer Product Rebate program category that covers 52% of the residential lifetime electricity savings (see Figure 3-3). This analysis indicated that lighting rebate programs accounted for over 80% of all gross electricity savings attributed to the consumer product rebates in the program administrator program reports we compiled. This means that lighting rebates represent at least 44% of total residential lifetime savings.⁴⁸ Appliance Recycling programs (which we also included in the product rebate category)

⁴⁸ We indicate at least 44% because other program types also can, and often do, include lighting related products.

accounted for 6% and appliance rebates made up 2% respectively of all residential sector lifetime gross savings. Consumer Electronics programs, the fourth detailed program type in the consumer product rebate category, garnered less than 1% of residential sector savings.

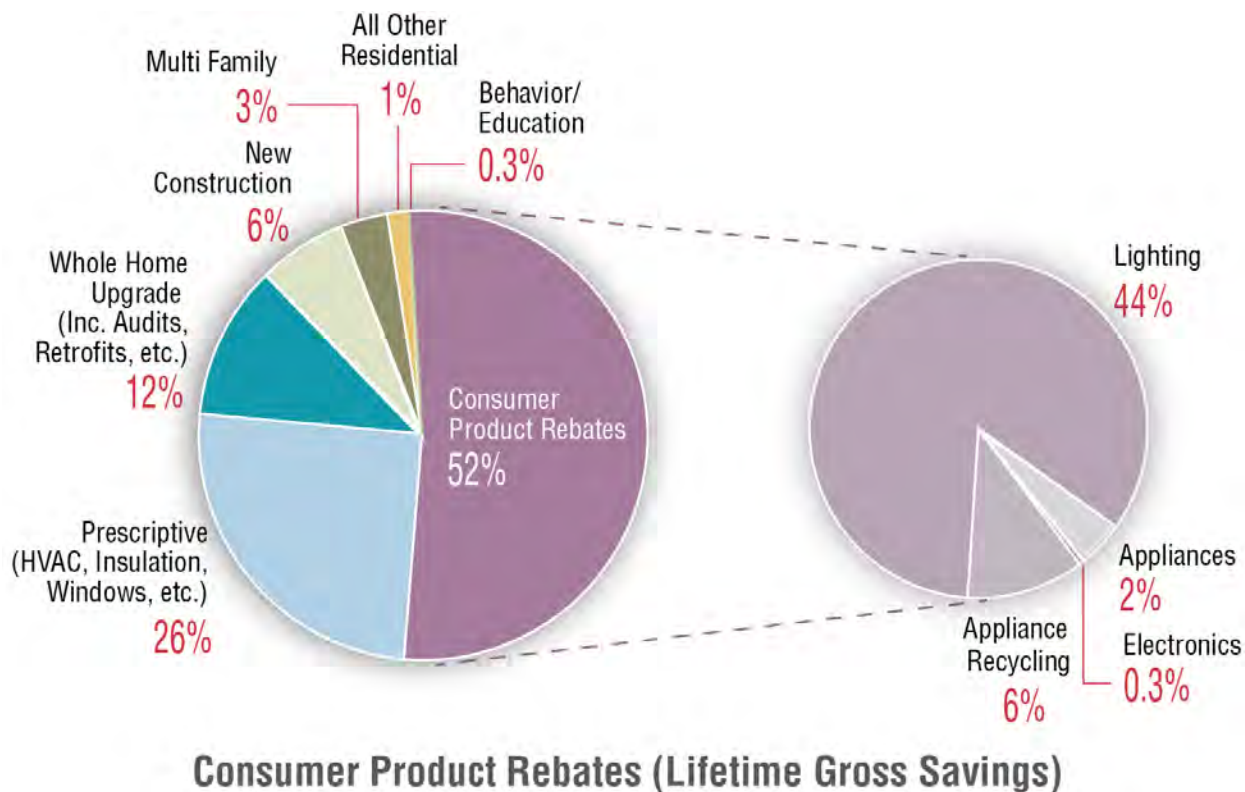


Figure 3-3. Lifetime gross electricity savings for 2009-2011 residential consumer product rebate programs

We also analyzed C&I sector expenditure and savings data by simplified program type (see Figure 3-4) and found the following:

- At 36%, custom programs represented the largest share of all C&I expenditures as well as the largest share of all C&I total lifetime savings at 38%.
- Prescriptive and small commercial programs accounted for comparable shares of C&I expenditures at about 21% each; although reported lifetime savings were much greater for prescriptive programs (30% of all savings) compared to small commercial programs (11% of all C&I savings).
- Commercial new construction programs accounted for 12% of C&I expenditures and 10% of the sector’s savings.
- Programs specifically targeting the institutional market (municipal and state governments, universities, colleges, K-12 schools and hospital/healthcare facilities, also collectively known as the MUSH market) made up 7% of total C&I program expenditures and 4% of the savings, although it should be noted that institutional sector customers can and do participate in many other types of C&I programs as well.

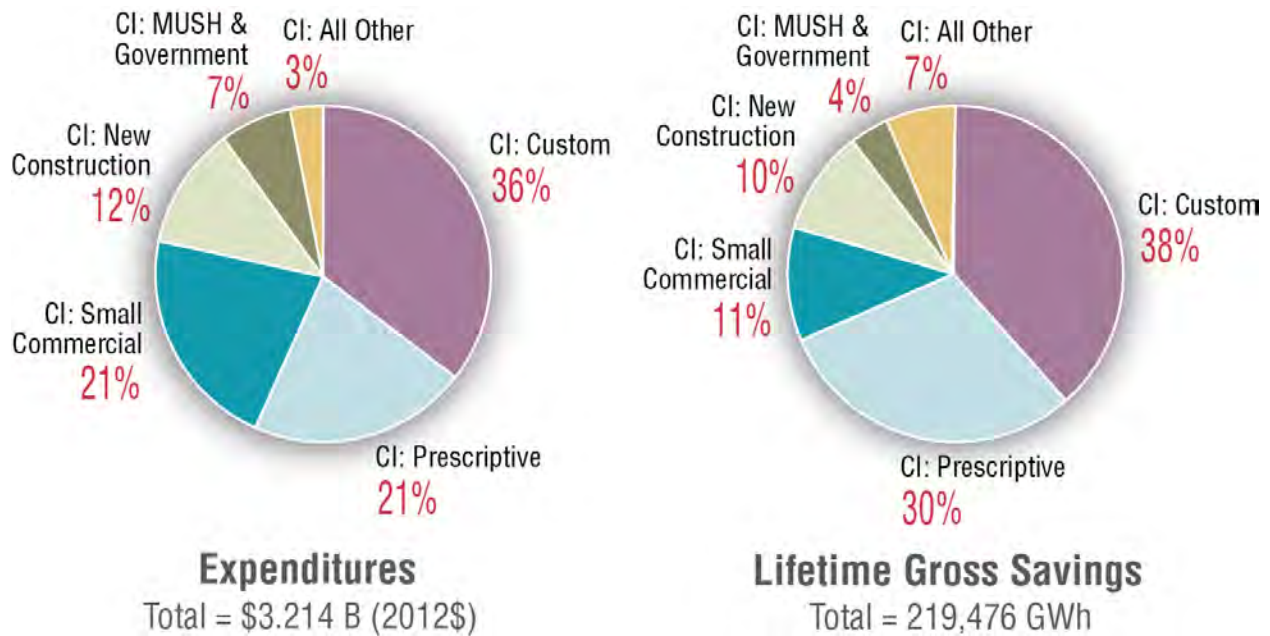


Figure 3-4. Program administrator expenditures and gross lifetime savings for 2009-2011 commercial and industrial electricity efficiency programs

We also created a region data field and coded efficiency program data provided by program administrators into the appropriate region, using U.S. Census region definitions (see Table 3-2). As can be seen from Table 3-2, we have a limited number of states (four) with program-level data from the South region as well as a relatively limited number of efficiency programs in total from southern states in the database.

Table 3-2. U.S. Census Regions and states in the LBNL DSM Program Impacts Database⁴⁹

| Region | States in the LBNL DSM Program Impacts Database |
|-----------|---|
| Midwest | MI, MN, IL, IA, OH, WI, IN |
| Northeast | PA, VT, CT, ME, NH, NY, RI, NJ, MA |
| South | MD, NC, FL, TX |
| West | CA, WA, MT, ID, OR, HI, CO, NV, UT, AZ, NM |

For the programs in the database, program administrator costs for electricity programs were highest for the West at \$2.0 billion, followed closely by the Northeast at just over \$1.9 billion.

⁴⁹ U.S. Region Definitions may be found at: http://www.census.gov/econ/census07/www/geography/regions_and_divisions.html

Program administrator expenditures totaled just under \$1 billion in the Midwest and about \$505 million in the South (see Figure 3-5).

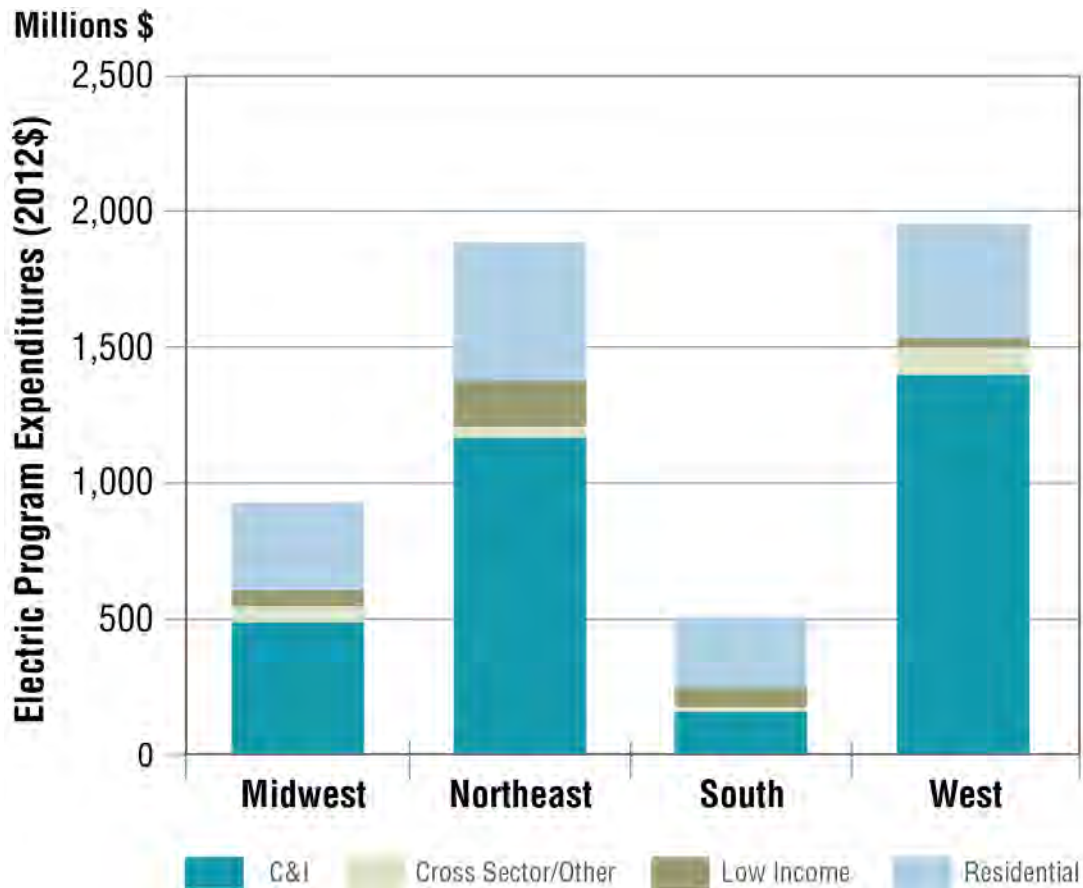


Figure 3-5. Program administrator expenditures by region for 2009-2011 electricity efficiency programs

The regional breakdown of lifetime savings for programs in the database looks much different compared to expenditures (see Figure 3-6). Program administrators in the Midwest reported about 20% more lifetime electricity savings than program administrators in the Northeast and about 75% of the savings for program administrators in the West, although expenditures in the Midwest were less than half of those in the West or Northeast.

As can be seen from Figure 3-5 and Figure 3-6, savings reported by program administrators come predominantly from the C&I sector, except for the South where residential and C&I program savings are more balanced. In the Midwest, C&I programs accounted for a little more than half of the region’s total expenditures, but C&I programs accounted for nearly 70% of the savings. In the West, the expenditure and savings proportions were more comparable; C&I programs accounted for about 60% of total expenditures and about 65% of the savings, while 27% of expenditures and 21% of savings occurred in the residential sector. Low-income program expenditures were significantly higher in the Northeast than in the other regions.

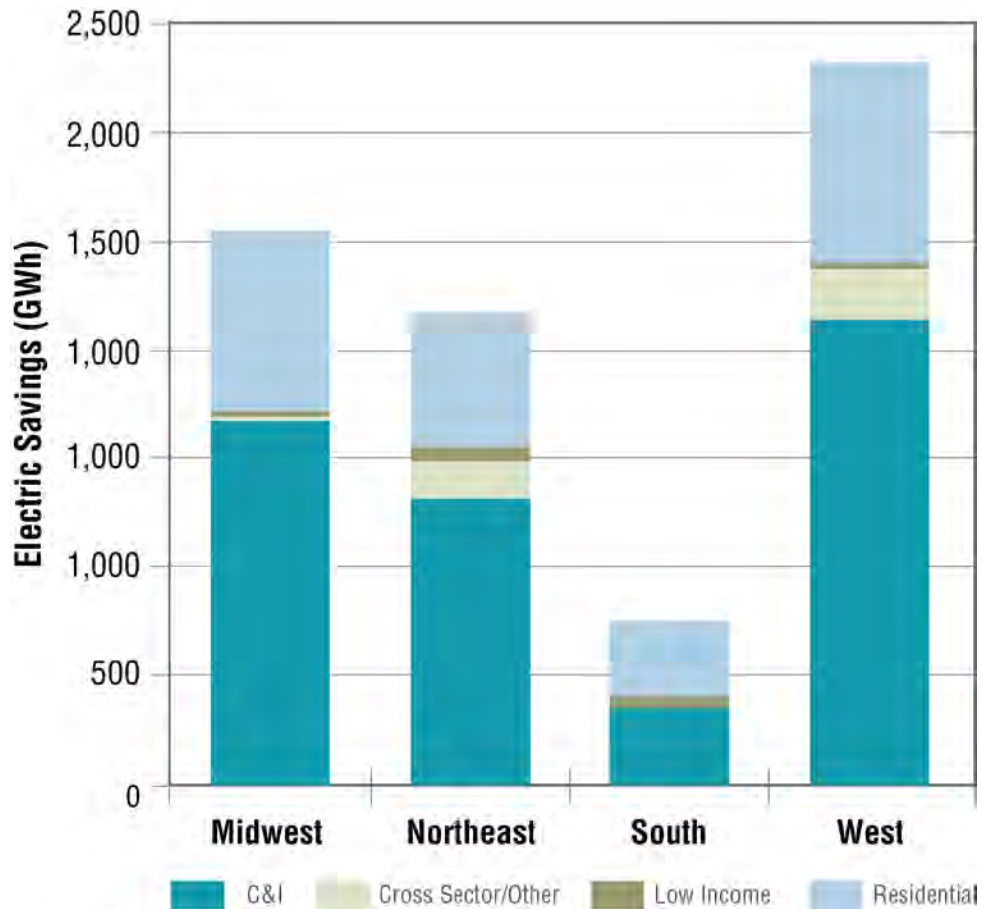


Figure 3-6. Program administrator lifetime savings by region for 2009-2011 electricity efficiency

3.1.2 Gas Program Expenditures and Savings

Program administrator expenditures for identifiable natural gas programs⁵⁰ in the LBNL DSM Program Impacts database for the years 2009–2011 totaled just under \$1.3 billion, about 20% of program administrator expenditures for electric programs (see Table 3-3). Residential programs accounted for about 60% of aggregated gas program expenditures, while C&I programs accounted for about a quarter of total program expenditures, which is the converse of spending breakdown in electric efficiency programs (i.e., C&I programs account for 60% and residential programs about 30% of total spending).

⁵⁰ Fifty program administrators reported natural gas program data.

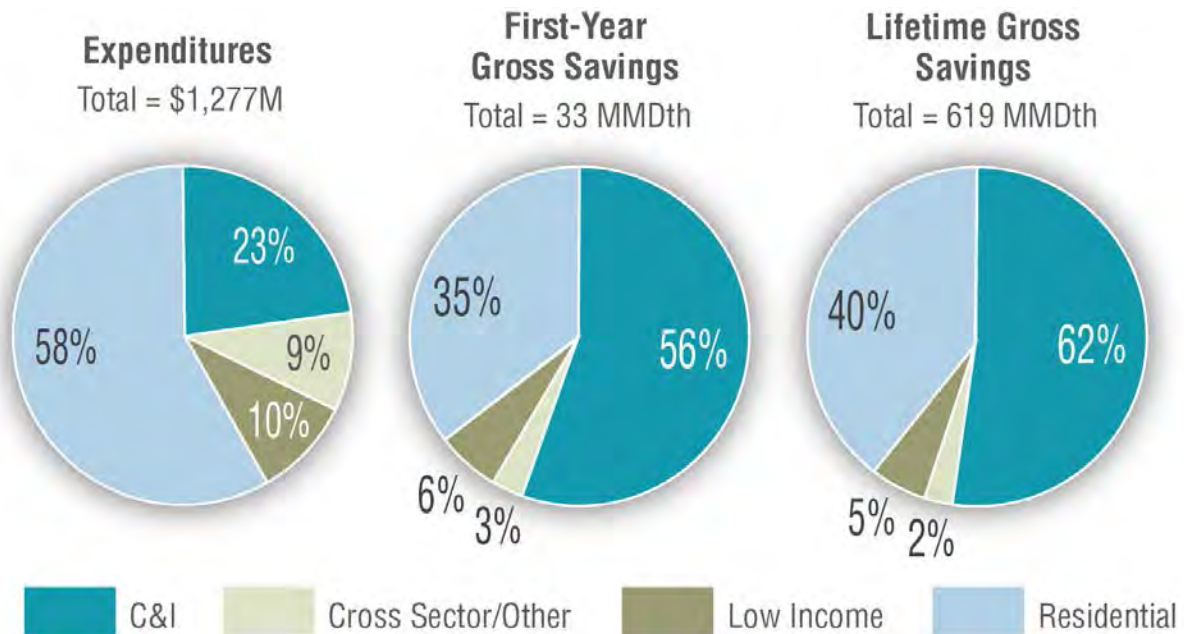


Figure 3-7. Program administrator expenditures, first- year and lifetime gross savings for 2009–2011 natural gas efficiency programs

As with the residential sector programs, we compared the share of total program administrator expenditures with the share of first-year and lifetime savings for each market sector (see Figure 3-7). Expenditures for the C&I sector accounted for about a quarter of total gas program expenditures, yet C&I programs generated more than half of total gas program savings (56% of first-year savings and 62% of the lifetime gross savings), indicating the importance of this sector for natural gas energy efficiency.

Table 3-3. Program administrator expenditures for 2009-2011 natural gas efficiency programs

| Market Sector | Share of Total Program Administrator Expenditures | Total Program Administrator Expenditures (million 2012\$) |
|--------------------|---|---|
| Residential | 58% | \$742 |
| C&I | 23% | \$291 |
| Low Income | 10% | \$123 |
| Cross Sector/Other | 9% | \$121 |
| TOTAL | 100% | \$1,277 |

On the other hand, while residential programs made up about 60% of total gas program expenditures, they garnered 35% of first-year savings and 40% of the total lifetime savings for all programs. Low income gas programs follow a similar pattern as low-income electricity efficiency programs, accounting for 10% of total expenditures and 6% of first-year and 5% lifetime savings.

3.2 Observations on the Cost of Saved Energy

3.2.1 National Observations

CSE values are presented as either (a) savings-weighted average values; (b) as an inter-quartile range with median⁵¹ values; or (c) both.⁵² The savings-weighted average CSE is calculated using all savings and expenditures at the level of analysis (e.g., region, sector, program category).⁵³ For example, the national savings-weighted average CSE for the residential sector includes all the residential program portfolio costs in the database (even for programs without reported savings) divided by all the savings reported for the residential sector; thus “weighting” the CSE of larger programs more than small programs. The inter-quartile range and median CSE values are based on calculations for each individual program; thus giving equal weighting to all programs irrespective of their relative size (either in terms of savings or costs). The inter-quartile range and median CSE values exclude programs where a CSE cannot be calculated.⁵⁴

CSE values are reported using three different metrics: a cost of lifetime saved energy, a levelized cost of energy savings using two discount rates (3% and 6% real), and a cost of first-year energy savings (see Table 2-2 for definitions of these CSE metrics). Appendix E contains detailed national and regional levelized CSE values by sector, simplified program type and detailed program type; tables in Appendix E show the savings-weighted average CSE, the first quartile, the median, and the third quartile levelized CSE values and the total number of programs for each category.

Table 3-4 shows national saving-weighted average CSE values for the identifiable electricity efficiency programs⁵⁵ in the database. Figure 3-8 depicts the lifetime and levelized CSE values (\$/kWh) by sector. The national CSE values for electricity efficiency programs rounds to approximately \$0.02/kWh for the levelized CSE using both the 3% and 6% real discount rates and a lifetime CSE (without discounting) of \$0.015/kWh.

⁵¹ The *inter-quartile range* is the middle 50 percent of the range of program CSE values. The *median* is the numerical value separating the higher half of a data sample from the lower half.

⁵² The CSE values in this section are based on *program administrator costs* and *gross energy savings*. When used, the lifetime energy savings may be based on reported values or values derived from estimates of program average measure lifetime. See Chapter 2 for a discussion of the basis for using program administrator costs and gross savings, the protocol for calculating lifetime energy savings, and discussion of the limitations in the efficiency program data used to calculate CSE values.

⁵³ We have observed that program administrators are not consistent in how they report program support costs (i.e. administration, EM&V, marketing & education, etc.). Some program administrators reported those costs at the program level, others reported those costs at the sector or portfolio level, and several reported those costs as, effectively, separate programs. For the purposes of this report, costs associated with specific programs stay associated with those programs. Costs that occur at the portfolio or sector levels are included in the analysis as separate programs. This allows us to account for those costs at the sector and portfolio levels but may appear as though individual programs within the same category cost less than their counterparts who report costs at the program level.

⁵⁴ Some programs did not report savings (e.g., education/information programs) and others were not designed to achieve savings (i.e. programmatic support programs including EM&V, marketing). Where savings are not reported, it was not possible to calculate a CSE for that particular program.

⁵⁵ Eighty-eight program administrators reported electric program data.

Table 3-4. The program administrator CSE for electricity efficiency programs by sector: national savings-weighted averages

| Sector | Levelized CSE (6% Discount) (\$/kwh) | Levelized CSE (3% Discount) (\$/kwh) | Lifetime CSE (\$/kwh) | First Year CSE (\$/kwh) |
|-------------------------------|--------------------------------------|--------------------------------------|-----------------------|-------------------------|
| Commercial & Industrial (C&I) | \$ 0.021 | \$ 0.018 | \$ 0.015 | \$ 0.188 |
| Residential | \$ 0.018 | \$ 0.016 | \$ 0.014 | \$ 0.116 |
| Low Income | \$ 0.070 | \$ 0.059 | \$ 0.049 | \$ 0.569 |
| Cross Sectoral/Other | \$ 0.017 | \$ 0.014 | \$ 0.012 | \$ 0.120 |
| National CSE | \$ 0.021 | \$ 0.018 | \$ 0.015 | \$ 0.162 |

Values in this table are based on the 2009-2011 data in the LBNL DSM Program Impacts Database. CSE values are for program administrator costs and based on gross savings. Values are savings-weighted average CSE calculated using all savings and expenditures at the level of analysis.

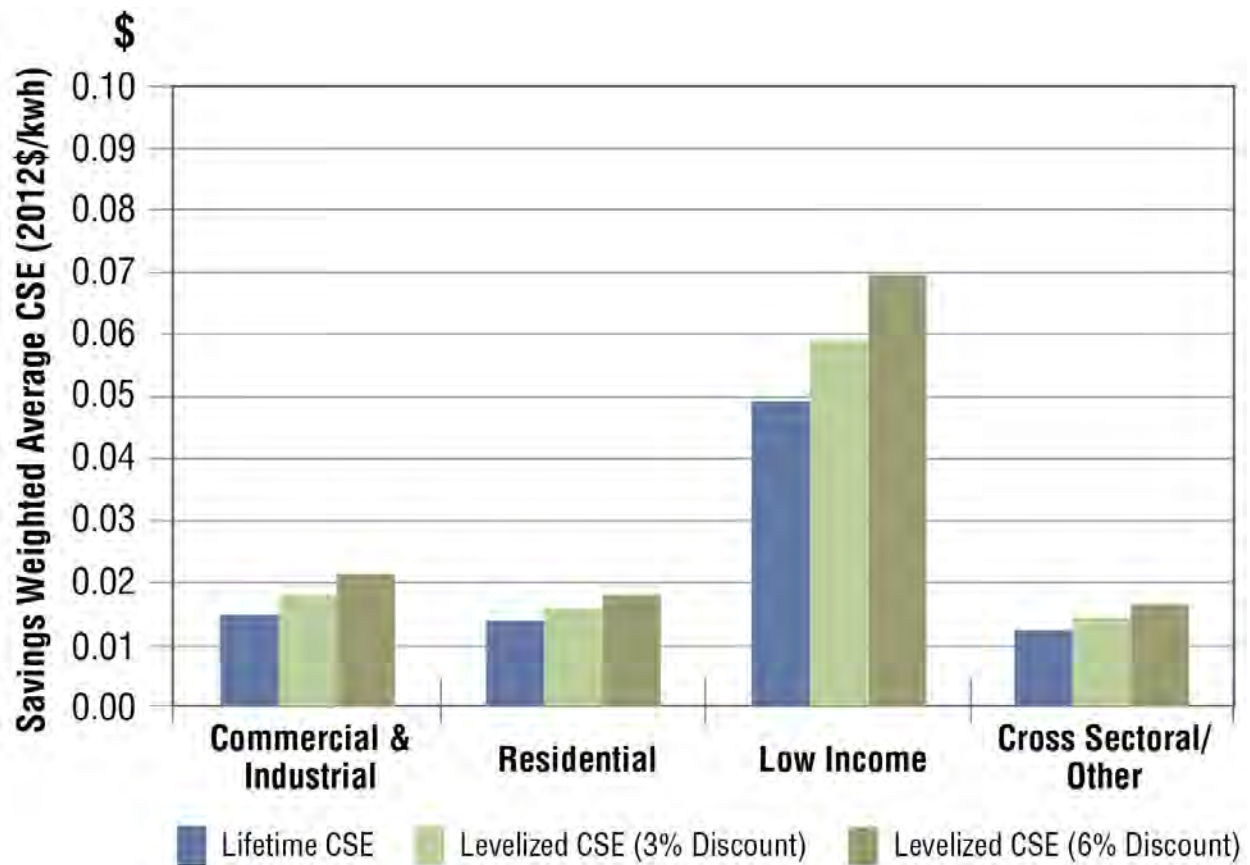


Figure 3-8. National savings-weighted average CSE for electricity efficiency programs by sector

Table 3-5 shows national saving-weighted average CSE values for the natural gas efficiency programs in the LBNL DSM Program Impacts Database. Figure 3-9 depicts the lifetime and levelized CSE values (\$/therm) for gas efficiency programs by sector.^{56,57} Gas efficiency programs targeted at C&I customers had a significantly lower CSE (\$0.17/therm; 6% discount rate) than programs targeting residential (\$0.56/therm) and low-income (\$0.59/therm) customers, indicating the importance of the C&I sector for natural gas programs.

Table 3-5. The program administrator CSE for gas efficiency programs by sector: national savings-weighted averages (\$/therm)

| Sector (Natural Gas) | Levelized CSE (6% discount) (\$/therm) | Levelized CSE (3% discount) (\$/therm) | Lifetime CSE (\$/therm) | First Year CSE (\$/therm) |
|-------------------------|--|--|----------------------------|------------------------------|
| C&I | \$ 0.17 | \$ 0.14 | \$ 0.11 | \$ 1.61 |
| Residential | \$ 0.56 | \$ 0.43 | \$ 0.32 | \$ 6.44 |
| Low Income | \$ 0.59 | \$ 0.47 | \$ 0.36 | \$ 6.26 |
| Cross Sectoral/Other | \$ 1.78 | \$ 1.55 | \$ 1.34 | \$ 12.37 |
| National CSE | \$ 0.38 | \$ 0.31 | \$ 0.24 | \$ 3.93 |

Values in this table are based on the 2009-2011 data in the LBNL DSM Program Impacts Database. CSE values are for program administrator costs and based on gross savings. Values are savings-weighted average CSE calculated using all savings and expenditures at the level of analysis.

⁵⁶ Fifty program administrators reported natural gas program data.

⁵⁷ There are a number of combined fuel programs that have reported interactive effects on natural gas. These impacts are not included in program level CSE calculations; however, they are included in portfolio and sector level calculations.

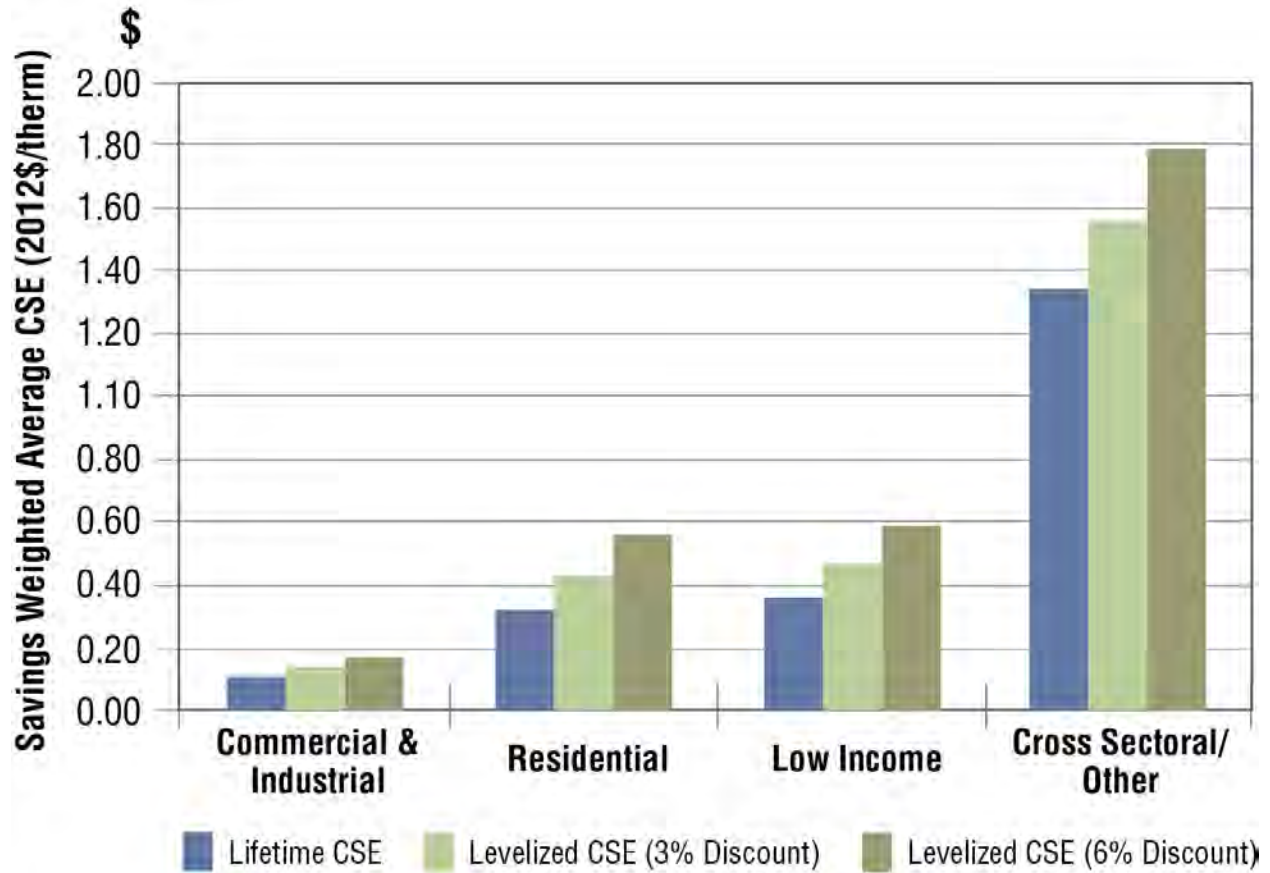


Figure 3-9. CSE for natural gas efficiency programs by sector

3.2.2 Sector and Program Level Observations for Electricity Efficiency Programs

We present CSE values at the sector and program level in this section. For simplicity, the remainder of this chapter presents CSE values using the levelized CSE for a 6% (real) discount rate (except where otherwise indicated).⁵⁸

Figure 3-10 presents the levelized CSE results on a national basis, depicting the savings-weighted average, median and inter-quartile range for each sector. We found that both C&I and residential electricity efficiency programs included in our database had an average levelized CSE of about \$0.02/kWh. Looking at these sectors in more detail shows that the residential sector had a slightly lower weighted-average CSE than the commercial sector but a higher median CSE (~\$0.04/kWh). The CSE values for residential sector programs also had a larger inter-quartile range than commercial sector programs (e.g., inter-quartile range of CSE values ran from just

⁵⁸ We use a levelized CSE because we believe it is technically more appropriate for comparing resources. The 6% real discount rate is representative of a typical utility cost of capital. Lower discount rates result in lower CSE values. For example, for a program with an average measure life of 10 years for installed measures, a 6% discount rate results in a CSE that is about 15% higher than a 3% discount rate. There is significant interaction between discount rates and assumed measure lives. For example, the CSE value is 50% lower if we assume a 10 year measure life and 6% discount rate compared to a 20 year measure life and a 3% discount rate. See Appendix D for additional discussion of this issue.

under \$0.02 to \$0.09/kWh for residential programs vs. \$0.015 to \$0.05/kWh for commercial programs). We suspect that this is due to the very wide range of program types in the residential sector.

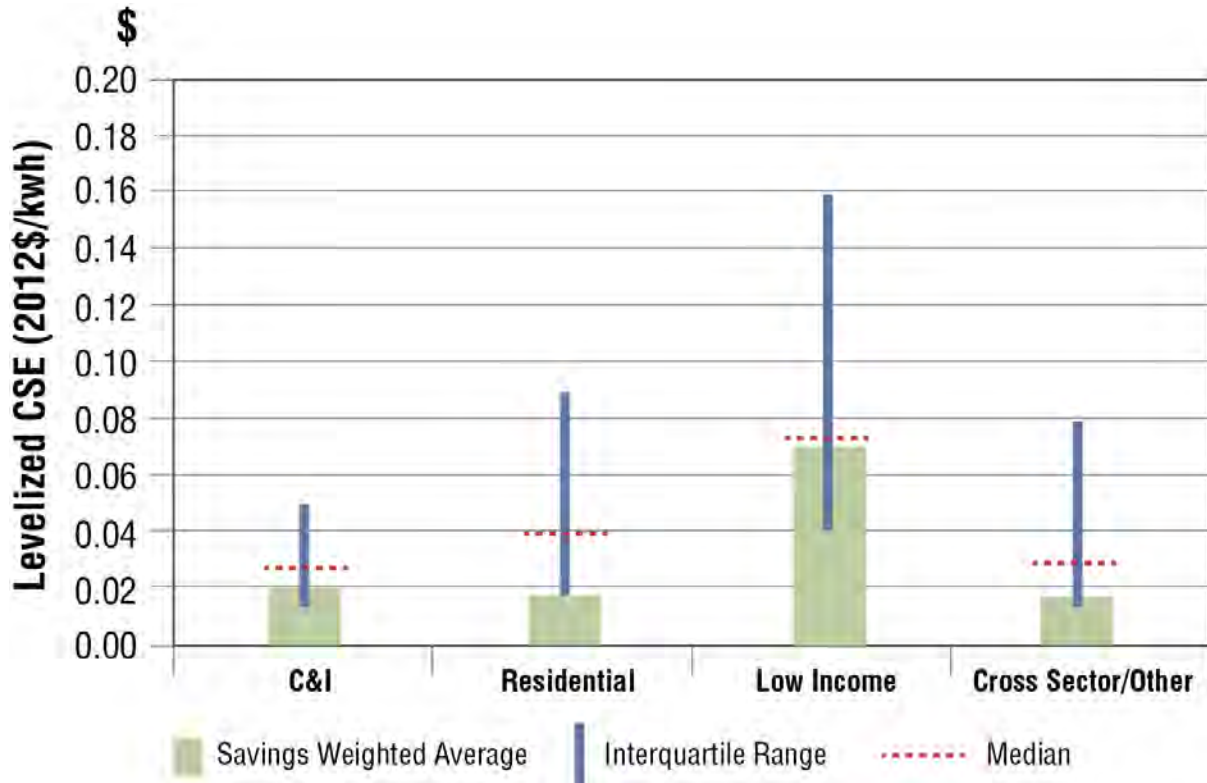


Figure 3-10. National levelized CSE for electricity efficiency programs by sector

Low-income programs have much higher savings-weighted average and median values for the program administrator CSE (on the order of \$0.07 to \$0.08/kWh). Low-income programs typically have a higher program administrator CSE for several reasons. Most notably, these programs are designed to achieve specific social policy objectives in addition to energy resource acquisition goals. These programs can include a variety of health and safety actions (correct structural issues, window replacement, mold removal, etc.) that need to be completed prior to completing any efficiency upgrades, adding to the program costs. Finally, low-income programs are often delivered at little or no cost to participants; thus the CSE for low-income programs is more comparable to an all-in or total resource cost perspective (i.e., including both program administrator and participant costs).

The cross sector/other program category, illustrated in Figure 3-10, is quite broad and includes a diverse mix of program types (e.g., equipment rebate programs that include both residential and non-residential customers, workforce development and training programs). Thus, at a high level, it is difficult to draw conclusions for the sample of programs included in this category.

At a national level, we observe a wide variation in CSE values for programs in most sectors (e.g., CSE values for programs in a sector have an inter-quartile range that varies by a factor of three to five). We also find that the savings-weighted average CSE was typically lower than the median value for CSE for a sector or program category (see Figure 3-11 and Figure 3-12). This suggests

that much of the savings for each sector is coming from programs or program types on the low end of the CSE range for that program or sector.

Figure 3-11 and Figure 3-12 show levelized CSE values for the simplified program categories for C&I and residential sectors, respectively.⁵⁹

The simplified C&I program categories had median values for the program administrator’s CSE that range from \$0.01/kWh to \$0.05/kWh. It is worth noting that the savings-weighted average CSE for custom and prescriptive rebate program categories were \$0.018/kWh and \$0.015/kWh, respectively. Since these two program categories accounted for almost 70% of C&I sector savings (see Figure 3-4), they tended to drive the overall CSE results for the C&I sector: program administrators had an average levelized CSE of less than \$0.02/kWh in the C&I sector. The C&I programs (Figure 3-11) also had a relatively smaller inter-quartile range of CSE values compared to the residential program categories (Figure 3-12).

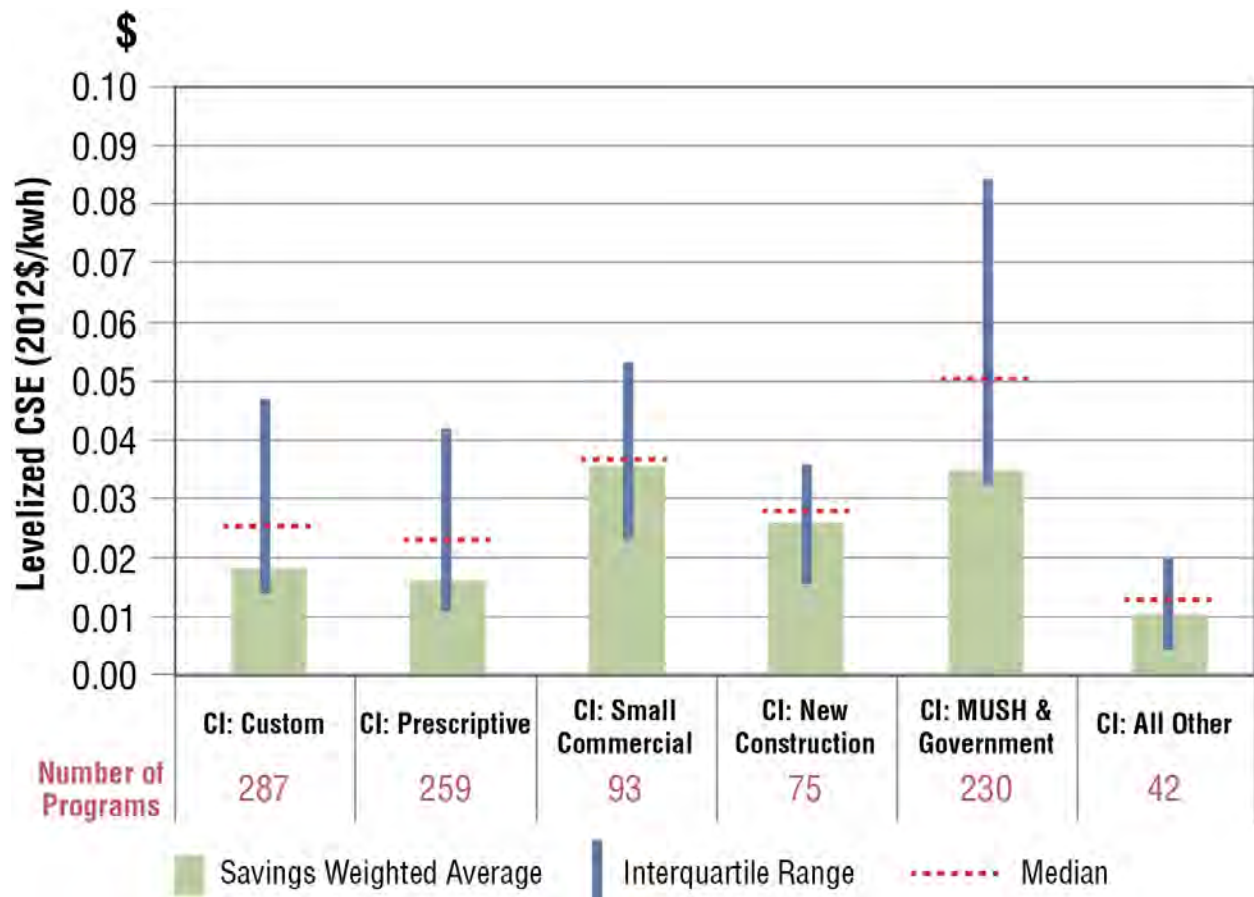


Figure 3-11. National levelized CSE for commercial and industrial sector simplified program categories

⁵⁹ Note that the y-axis scales for CSE are different in Figures 3-11 and 3-12, illustrating differences in the range of CSE values in C&I and residential sector programs.

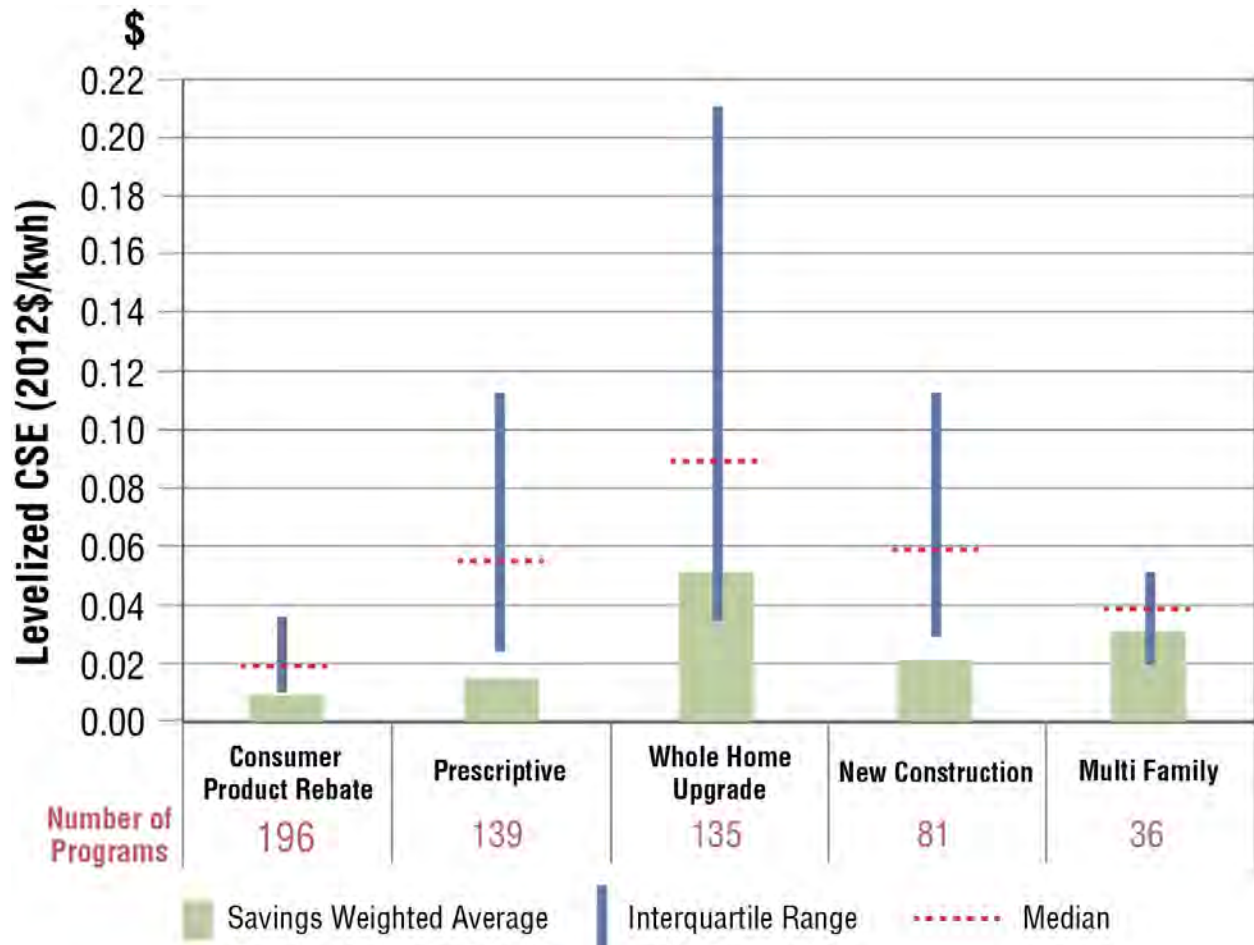


Figure 3-12. National levelized CSE for residential sector simplified program categories

For the residential programs, several program categories had a relatively tight range of program administrator CSE values. For example, Consumer Product Rebate programs had an interquartile range of \$0.01/kWh to nearly \$0.04/kWh and a low savings-weighted average (~\$0.01/kWh). However, the Residential Prescriptive (\$0.03/kWh to \$0.11/kWh), New Construction (\$0.03/kWh to \$0.11/kWh) and Whole-Home Upgrade (slightly more than \$0.03/kWh to \$0.21/kWh) program types had significantly larger ranges. There are several possible reasons for the larger range of CSE values in each of these program categories. The prescriptive simplified program category includes detailed program types that implement a wide variety of measures (e.g., HVAC, insulation, windows, pool pumps) as well as some generic “prescriptive” programs⁶⁰ that often include measures also found in the Consumer Product Rebate category. This broad measure mix and the variation in costs and measure lifetimes associated with those measures are possible drivers for the wide range of CSE values for the prescriptive category.

⁶⁰ Some programs include all their rebated measures under the same program title and it is not possible to determine where the majority of the savings is coming from. In these cases, the programs were categorized as “Residential Prescriptive.”

For the Whole-Home Upgrade program category, the broad range of program designs and delivery mechanisms (this category includes audit, direct install, and retrofit/upgrade programs) may help explain the relatively wide range of CSE values. Figure 3-13⁶¹ shows program administrator CSE values for detailed program categories under the Whole-Home Upgrade program category. We observe that the inter-quartile range of CSE values for both direct install and whole-home upgrade programs ranged from about \$0.03/kWh to about \$0.26/kWh, with median values of \$0.06/kWh and \$0.12/kWh, respectively. Whole home audit programs have a much smaller inter-quartile range, from \$0.03/kWh to \$0.11/kWh, and a median value of \$0.07/kWh.

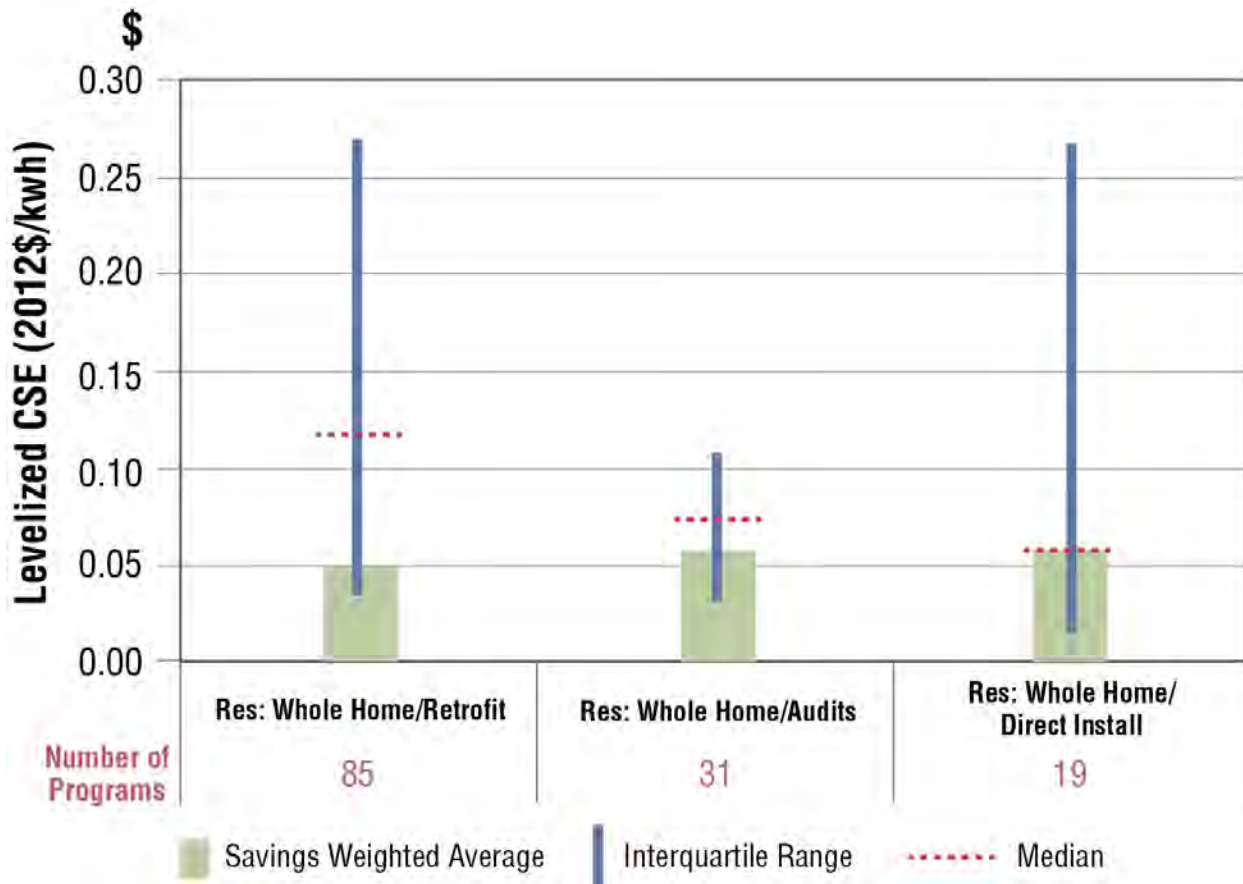


Figure 3-13. National levelized CSE for residential whole home detailed program category

Recall that about 44% of the residential sector lifetime gross savings came from lighting rebate programs that are part of the Consumer Product Rebate simplified program category (see Figure 3-13). Thus, we took a closer look at the CSE results for the four detailed program types within this category (see Figure 3-14).

The median and average levelized CSE values for lighting rebate programs were quite low (about \$0.01/kWh) with a small inter-quartile range (see Figure 3-14). Future investigation of these programs' CSE values, savings estimates, and drivers is probably warranted given that a

⁶¹ Note that the y-axis scale in Figure 3-13 has higher CSE values than other figures in this chapter.

large percentage of savings came from lighting measures and that lighting CSE may rise as baselines (and thus perhaps savings) are lowered for many of these measures given implementation of more aggressive lighting equipment standards.

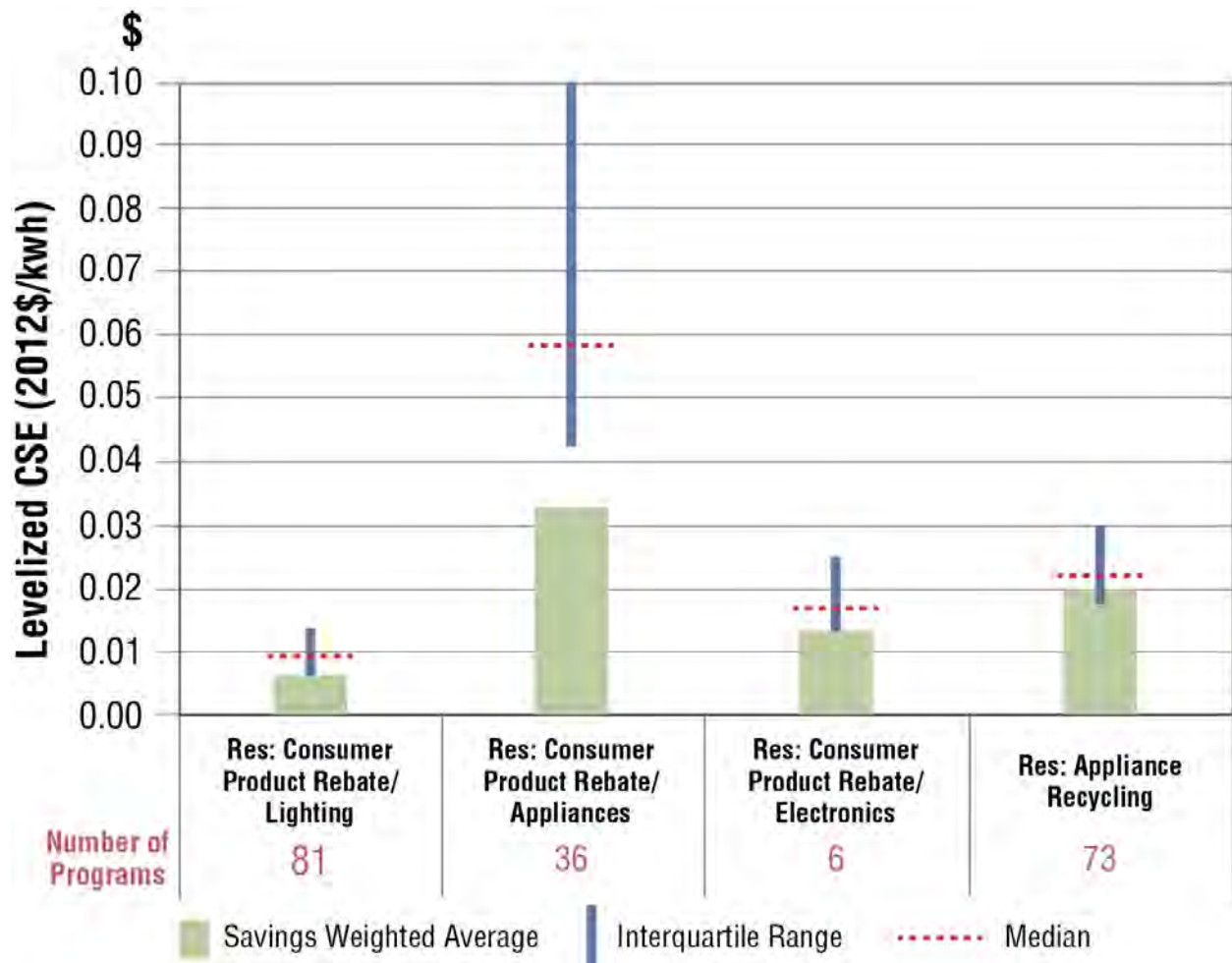


Figure 3-14. National levelized CSE for residential consumer product rebate detailed program categories

3.2.3 Regional Observations in Electricity Efficiency Programs

In this section, we examine some of the potential underlying drivers of CSE, including region (i.e., geographic location), climate, and baseline building efficiency requirements. Figure 3-15 presents regional CSE values for programs in the database (see Table 3-2 for assignment of states to region).

Across all programs, the savings-weighted average CSE (\$0.014/kWh) and median CSE (\$0.019/kWh) values were lowest in the Midwest. This is consistent with the information in Figure 3-5 and Figure 3-6, which shows that program administrators in the Midwest in aggregate reported relatively low expenditures and relatively high savings (compared to other regions). Possible explanations for this phenomenon include the relative “newness” of the Midwest energy

efficiency programs and savings targets. Most of the states in this region enacted their first EERS targets in the late 2000s (Barbose et al. 2013). As a result, most of these states are perhaps still able to achieve significant savings from programs targeting low cost measures (i.e., lighting rebate programs). Another possible explanation is that gross savings values and/or measure lifetimes are higher because of baseline conditions or because EM&V practices are less mature in some states.

In contrast, many states in the Northeast region have consistently been running efficiency programs for many years, have much higher savings targets (e.g., “all cost effective” efficiency mandates) and relatively well established and rigorous savings evaluation requirements. In aggregate, program administrators in the Northeast have a higher savings-weighted CSE (\$0.033/kWh) and a much wider range of CSE values among types of programs, which possibly indicates that there was a broader mix of program designs and delivery mechanisms, as well as desire to achieve more comprehensive savings driven by state policy objectives (e.g., regulatory decisions or legislation that directs program administrators to achieve all cost-effective efficiency).

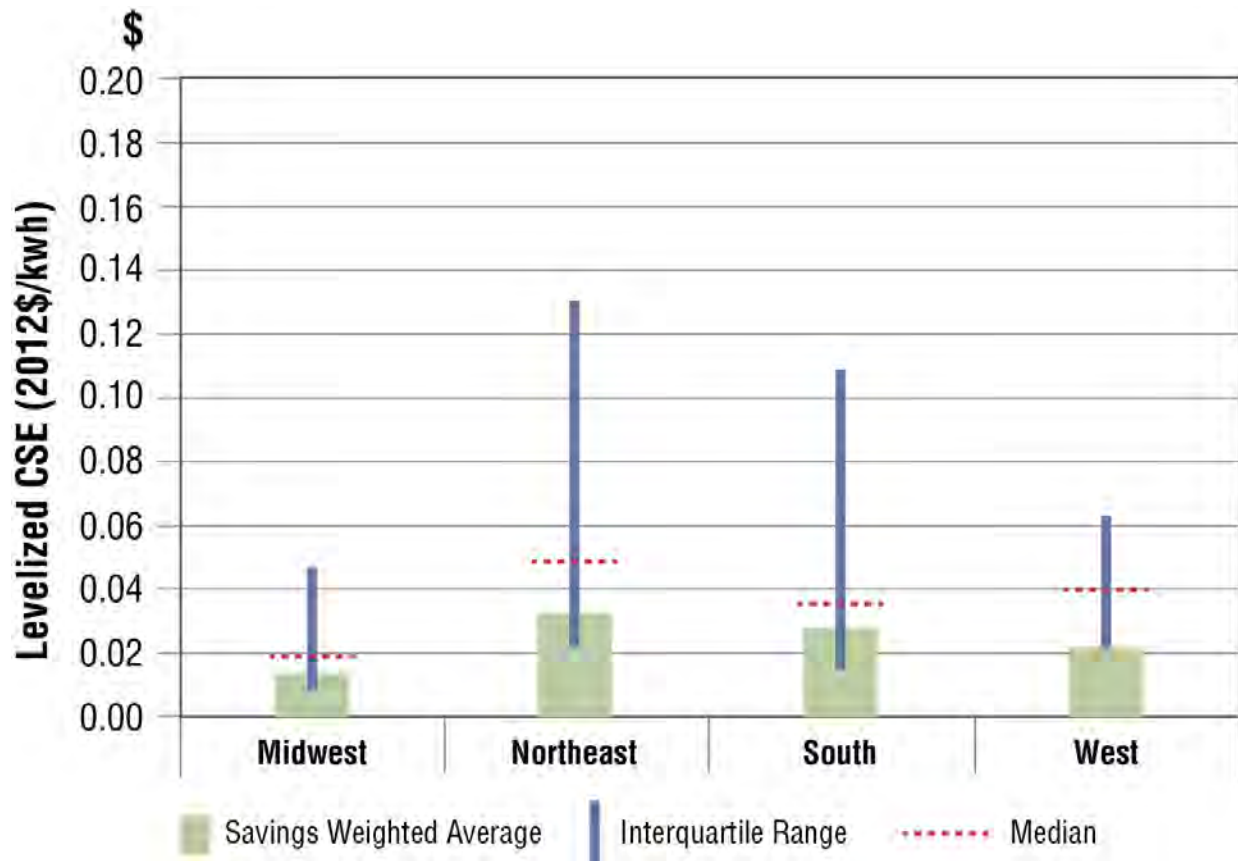


Figure 3-15. Levelized CSE for electricity efficiency programs by region

We also looked at average CSE values for all C&I and residential programs (excluding low-income programs) among program administrators in states (see Figure 3-16). Low-income programs were excluded for several reasons: (1) not all states either offer or reported information on their low-income programs; (2) the policy rationale(s) for low-income efficiency programs

differs among states: some states require low-income programs to pass cost-effectiveness screening tests while other states use multiple criteria to assess budgets and design of low-income programs (e.g., equity reasons, cost-effectiveness); and (3) the scale of low-income programs varies significantly among states. Thus, including low-income program data has the potential to skew state by state observations in CSE.

With several exceptions, we observe some clustering of average CSE values for efficiency programs for states in a region (see Figure 3-16) with several exceptions (e.g., FL, PA, NJ). It is worth noting that Massachusetts and Vermont have all cost-effective efficiency mandates and both of those states had a savings-weighted average CSE over \$0.04. Conversely, Pennsylvania has many characteristics that are typical of other states in the Midwest (e.g., relatively new efficiency programs, similar climate, economies) and had an average savings-weighted CSE more similar to program administrators in the Midwest than the Northeast. At this time, we cannot definitively explain the higher savings-weighted average CSE for program administrators in Florida.

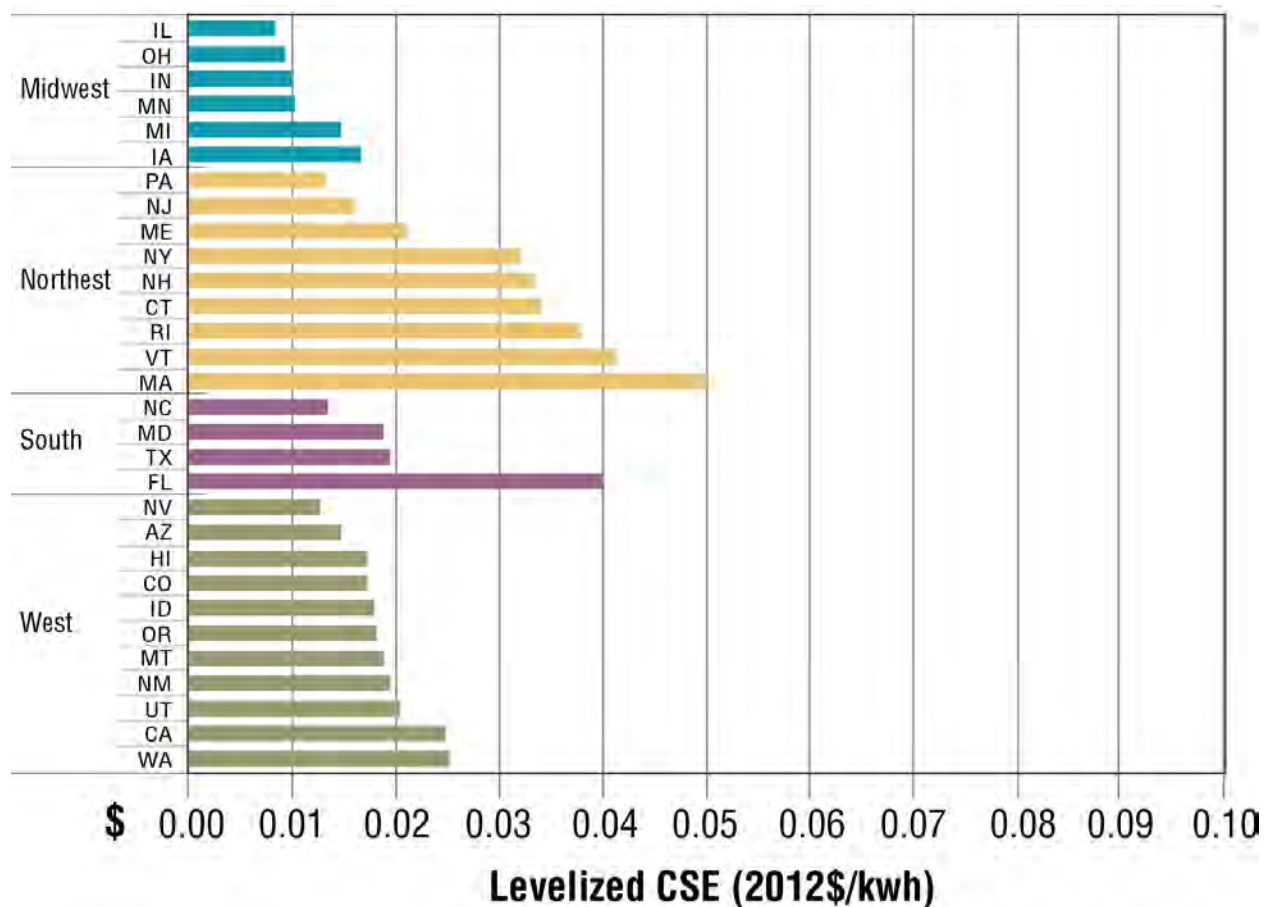


Figure 3-16. CSE values by state for electricity efficiency programs (excluding low-income programs)

A number of factors may influence the observed variation in the program-level CSE, including those that program administrators can influence (e.g., how program administrators report program costs, program design, incentive levels, and measure mix) and those largely outside of program administrator control (e.g., climate, area labor rates, building stock, regulatory requirements). We conducted exploratory analysis that examined two potential factors that may influence program-level CSE values: climate and building codes. First, we calculated the percentage of each region’s lifetime gross savings by savings-weighted program administrator CSE and climate zone for all program categories in the database (see Figure 3-16). The size of the bubbles in Figure 3-17 represents the percentage of the total regional lifetime savings that falls within the respective climate zone in which the program was administered. For example, for the West, there are more savings in the database in the warm climate zone that includes much of California.

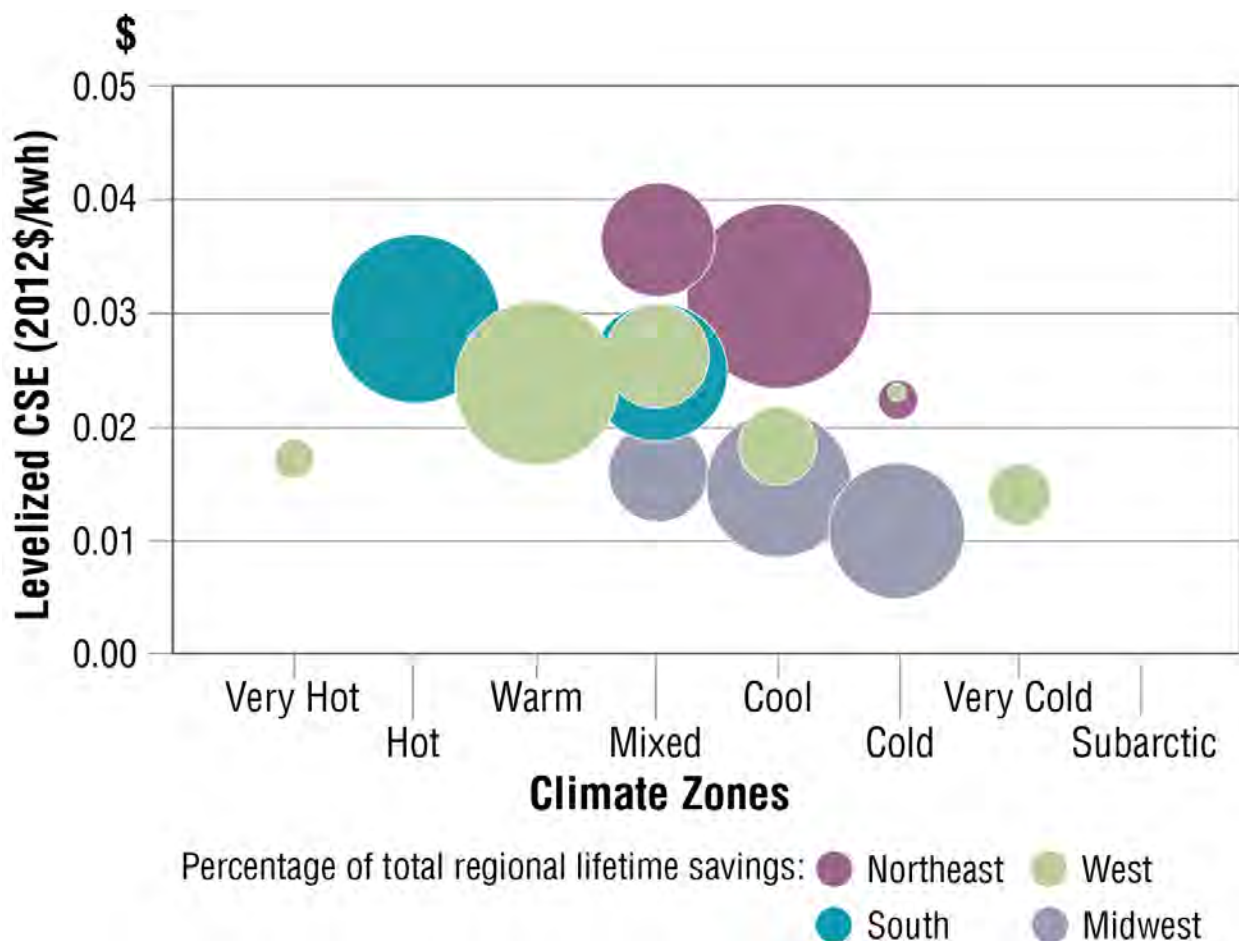


Figure 3-17. Percent of regional lifetime savings by climate zone and levelized CSE for electricity efficiency programs⁶²

⁶² States were assigned to climate zones adopted for the International Energy Conservation Code (IECC), in which the climate zones are delineated geographically as regions defined by certain historical averages for temperature, humidity and precipitation. A single zone was assigned to each state based on where the majority of the state's population—and presumably load—is concentrated. This method is imperfect but useful as a proof-of-concept test for an approximate relationship with levelized CSE. A description for the climate zones was adapted from the

In each region, we observe a pattern that as the climate gets cooler, the savings-weighted average CSE decreases for electricity efficiency programs. However, we also see that the savings-weighted average CSE varied significantly within a climate zone (see mixed and cool). Had climate been a significant driver for CSE, we would expect to see more agreement on the CSE by climate zone, even in different regions. This indicates that there are probably other factors that have more impact on the regional CSEs than climate zone. Additional analyses may be required to focus only on program types with climate dependent measures (e.g., cooling and heating system retrofits) or conduct more detailed analysis of participant costs and incentives which can vary by climate zone as cost effectiveness varies (e.g., a cooling system retrofit would be more cost-effective in a very hot climate than a cool one, possibly justifying higher incentives, but also perhaps not requiring them since the participant benefit to cost ratio would also be higher).

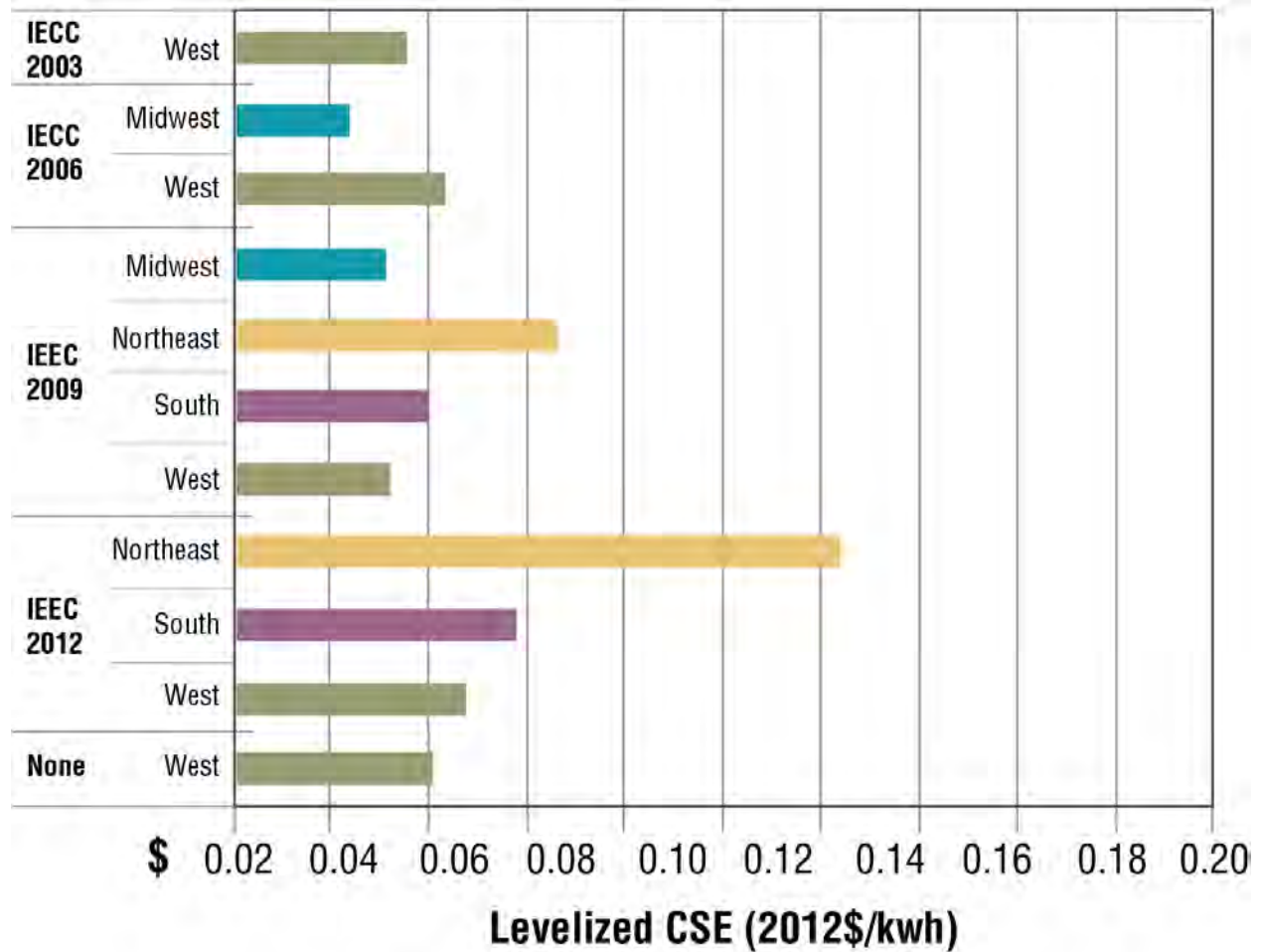


Figure 3-18. Levelized CSE for residential new construction programs compared to residential building energy codes adopted by states in each region⁶³

Building America discussion of IECC and Building America climate zones found here: http://apps1.eere.energy.gov/buildings/publications/pdfs/building_america/ba_climateguide_7_1.pdf

⁶³ U.S. DOE. 2013. Building Energy Codes Program. Washington, DC. Accessed at: <http://www.energycodes.gov/status-state-energy-code-adoption> in September 2013.

Another potential influence on CSE values is differences in baseline building efficiency across states and regions. In Figure 3-18 and Figure 3-19, we examine the savings-weighted average CSE for new construction programs in the residential and commercial sectors, respectively. For the residential programs, we calculate the savings-weighted average electric levelized CSE for new construction programs in each region plotted against each state’s current International Energy Conservation Code (IECC) status.^{64,65} The newer the adopted code, the lower the assumed baseline energy consumption, which tends to reduce the incremental electricity savings for any given efficiency action. For example, the gross savings calculated for a fixed set of measures for a building than meets the 2006 IECC code would be greater than for the same set of measures for a building that meets the 2012 IECC code. Note that the West, as a region, has the most diversity among states in terms of building energy code requirements.

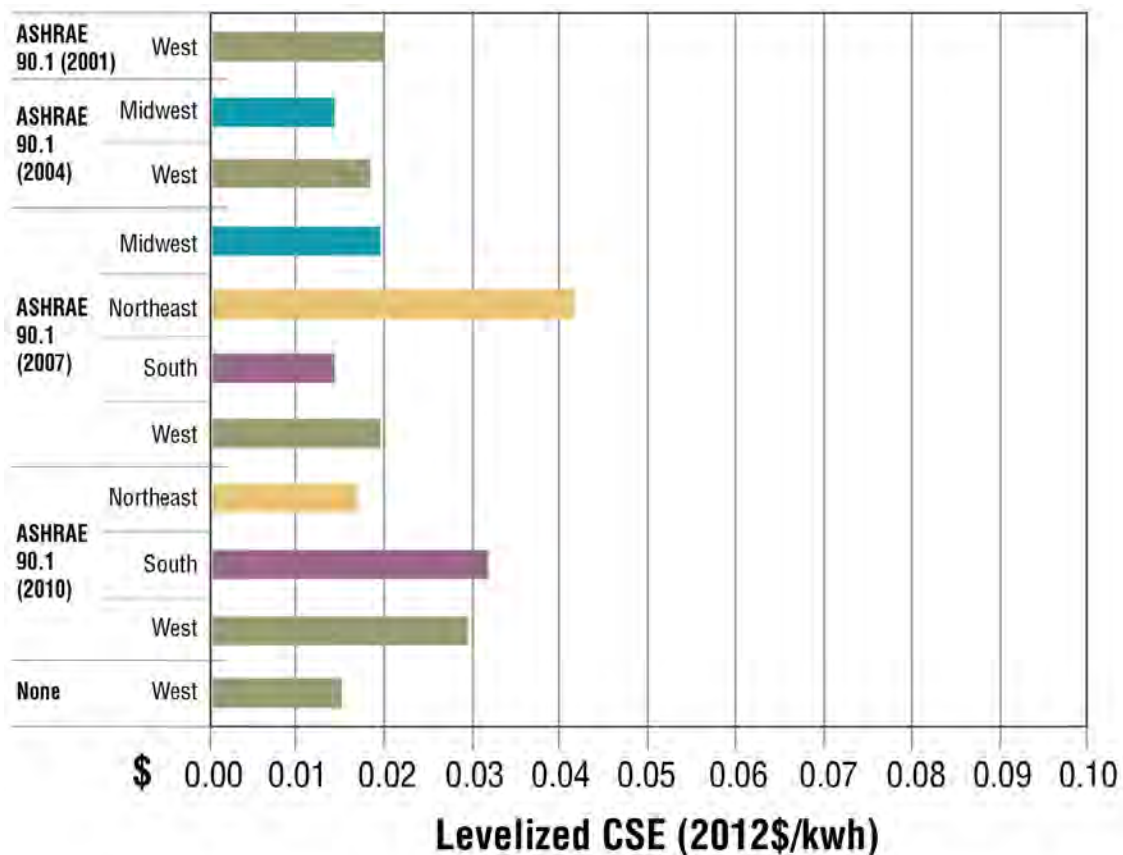


Figure 3-19. Regional levelized CSEs for commercial new construction programs compared to commercial building energy codes adopted by states in each region⁶⁶

⁶⁴ The IECC (<http://www.iccsafe.org/gr/Pages/IECC-Resource.aspx>) is a national model energy code for the United States. It sets minimum requirements for energy efficiency that new buildings—as well as additions and renovations to existing buildings—must meet wherever the code has been adopted into law, usually on state-by-state basis. The IECC is updated on a 3-year cycle, and the most recent version is 2012.

⁶⁵ By using current (2103) IECC code adoption status, we do not directly reflect the baseline status at time of program implementation (2009-2011). However, we expect that this approach may still be indicative of relative baseline status while not requiring state-by-state, year-by-year analysis of code status.

⁶⁶ U.S. DOE. 2013. Building Energy Codes Program. Washington, DC. Accessed at: <http://www.energycodes.gov/status-state-energy-code-adoption> in September 2013.

It might be reasonable to expect that the CSE would increase as the codes for new buildings set more stringent baseline efficiency requirements (e.g., incremental savings opportunities are less for any given investment). Some evidence for this pattern can be observed in the average CSE values for Midwest, Northeast and South residential programs segmented by the year of the building energy codes. However, the expected pattern in average CSE values does not readily emerge for states in the West that offer residential new construction programs.

The picture is even less clear when looking at the savings-weighted CSE for commercial new construction programs plotted against commercial codes (see Figure 3-19). CSE values do not follow the expected pattern for states in either the West or Midwest. The savings-weighted average CSE values for states in the Northeast seems to have been lower where more stringent codes exist, although there are a limited range of code requirements among states in the Northeast. Thus, the effects of code status on CSE values require further inquiry.

3.2.4 Sensitivity Analysis: Impact of Measure Lifetime

In Chapter 2, we discussed data gaps and inconsistent criteria for reporting lifetime energy savings (and by extension efficiency measure lifetimes), noting that lifetime savings (or program average measure lifetime) were not reported for about 50% of the program years in the database.⁶⁷ In this section, we illustrate and discuss results of a sensitivity analysis that explores the impact of varying assumptions regarding program measure lifetime on CSE values reported by program administrators.

Figure 3-20 compares the “LBNL approach” used to estimate lifetime savings for those programs that did not report this information to two other potential approaches in which we apply the minimum and maximum reported program average lifetimes for each detailed program type to all programs of that type.

The minimum and maximum values for each program type (see the light and dark green bars in Figure 3-20) dramatize the impact on levelized CSE values of varying assumptions for the average measure lifetime of efficiency programs. For five of the 12 reported program categories, if we use the minimum reported program average lifetime (and apply it to all other programs in that category), the levelized CSE values more than doubles compared to the CSE values using the LBNL measure lifetime approach. This underscores the importance of understanding and accurately reporting the average measure lifetime of measures installed in programs since it significantly impacts the cost of saved energy (and the underlying cost-effectiveness of efficiency actions).

⁶⁷ For those programs, we calculated a program-average measure lifetime by detailed program category and applied those values to the reported gross first-year savings to calculate lifetime savings.

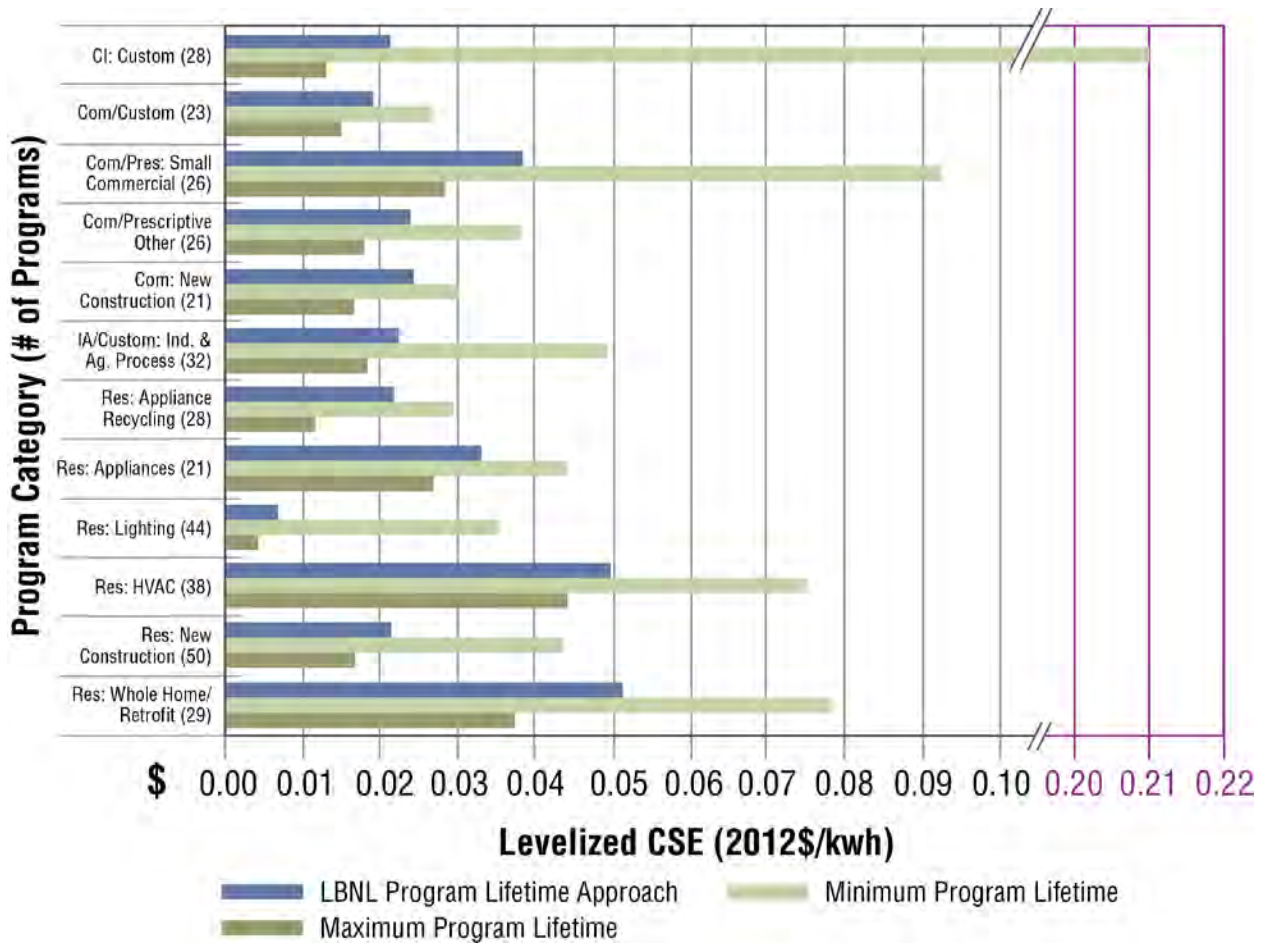


Figure 3-20. Impact of different program average measure lifetime assumptions on the levelized CSE for electricity efficiency programs

3.2.5 Program Administrator and Participant Cost Analysis: The Total Resource Cost of Saved Energy

This study focuses primarily on the program administrator CSE because participant costs were not consistently reported. We collected participant costs at the program level when reported, although this information was available for only 265 electric programs years (less than 10% of the programs in the database) in 11 states.⁶⁸ When reported, participant costs are subject to at least two additional sources of uncertainty: (1) whether the participant costs are based upon full program measure costs or incremental program measure costs; and (2) whether participant costs are based upon customer receipts and/or supplier invoices (i.e., actual participants paid those full costs) or whether incremental participant costs are based upon deemed values drawn from various sources (e.g., supplier surveys).

⁶⁸ In some of the 11 states, participant costs are only reported for select programs and not the entire portfolio.

Given small sample size and uncertain reporting of participant costs, it is difficult to assess the “all-in” or total resource cost of efficiency or analyze potential influences on the total cost of the efficiency resource. For these reasons, in Figure 3-21, we compare the program administrator’s levelized CSE vs. a total resource CSE for illustrative purposes only. We calculate this total resource CSE for the simplified program categories where both program administrator and participant costs were available for more than 18 program years.⁶⁹

For the small sample of programs, we found that the levelized total resource CSE values are typically double for most program types with the exception of the Residential Whole Home Upgrade program category (where the total resource CSE is about 25%–30% higher than the program administrator CSE). Further data collection and analyses could help understand how the ratio of program administrator to participant costs varies as a function of sector, measure types, and market maturity; and how incentives and direct support might be optimized to pay no more than is necessary to meet efficiency uptake objectives.

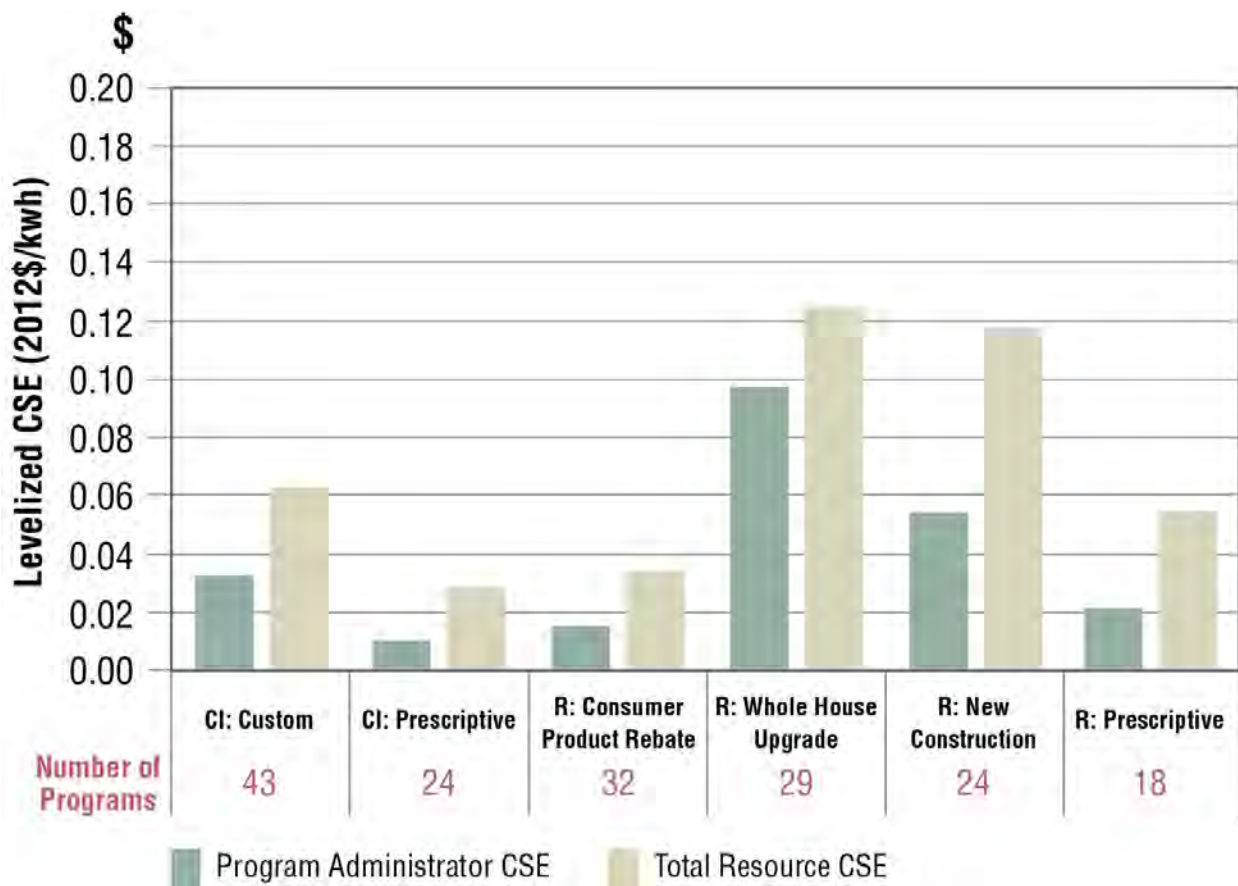


Figure 3-21. Levelized savings-weighted average CSE for electricity efficiency programs that include program administrator costs vs. total resource costs for select program categories⁷⁰

⁶⁹ The “n” of 18 was selected because there was a natural break in the data and also that criteria resulted in only including results for which there was a meaningful number of programs from which to calculate average values.

⁷⁰ This chart includes a very small sample of programs from 11 states; thus, results may not reflect current practices in many jurisdictions.

4. Testing Influences on the Costs of Saved Energy

As shown in Chapter 3, we observe a wide range of values for the program administrator CSE from virtually every perspective—nationally, and across regions, states, portfolios, and sectors. Moreover, we find significant variability within the different types of programs. The inter-quartile range of CSE values (the “middle” 50% of programs) for the first-year CSE can vary by a factor of 10 or more within a program category. In this chapter, we explore some factors that may be associated with this variability in the CSE. We describe the results of statistical analyses aimed at quantifying the relationship of CSE and a few, selected independent variables.

To initiate these analyses, we postulated three sets of potential explanations for these ranges of CSE values:

- Differences internal to the programs themselves and over which program administrators have at least some influence (e.g., the mix of measures in programs and thus the adoption patterns of consumers, the scale of programs, the maturity of the programs, program design, and program implementation);
- Differences external to the programs and over which program administrators have very little or no influence (e.g., climate, labor costs, and the policy framework within which programs operate).
- Incorrect information arising from problems with the primary data or faulty categorization of programs, or both (e.g., if gross energy savings are inaccurately reported in the source reports).⁷¹

We suspect that most or all of these factors influence the CSE values, interacting in ways that can be difficult to disentangle. In this chapter, we focus on the first two explanations (i.e., potential internal and external program influences) in order to see if their hypothesized influences on CSE are observed or not, using the programs in the database.⁷²

In the long run, we hope the collected data and this type of statistical analyses can:

- Inform policymakers and other stakeholders about the variability of the CSE to distinguish between controllable and uncontrollable sources of variability and, ideally, to identify ways of reducing costs or otherwise improving program design and delivery; and
- Lead to predictive models that specify and quantify major influences on CSE values and thus could inform cost or savings projections for use by portfolio planners, regulators, and resource planners.

⁷¹ See Chapter 2 for a discussion of data issues and Appendix C for a description of the quality control procedures implemented for this project.

⁷² As noted in Chapter 3, CSE values are derived as follows: Program costs refer to program administrator costs only; the CSE values exclude participant costs. Savings are *gross savings* as reported by the program administrator. When program administrators only reported net savings values and we either had or could derive program-specific net-to-gross ratios, we used those ratios to calculate gross savings values from reported net savings. Savings values are based on savings at the end-use site and not at the power plant or natural gas pumping station and thus do not account for transmission and distribution losses.

4.1 Hypotheses

Table 4-1 indicates five hypotheses postulated as part of this research effort. We present results for three of these hypotheses in this report (shown in black).⁷³ Future reports may provide more in-depth results for these hypotheses and analyses of other hypotheses (shown in gray), both indicated in Table 4-1 and under development.

Table 4-1. Factors that may influence the cost of saved energy

| Factors that May Influence the Cost of Saved Energy | Hypotheses | Proxy Variables | Level at which Variable Was Tested | Sources for Proxy Variable Data |
|---|--|--|--|--|
| Program Administrator Experience | Program administrators with more experience learn to deliver programs more effectively and efficiently, with resulting lower CSE | Years of energy efficiency program spending from 1999-2012⁷⁴ above a <i>de minimis</i> threshold | Portfolio and sector levels | U.S. Energy Information Administration Form 861 survey⁷⁵ data, 1999-2012 |
| Scale of Program | Larger programs reap economies of scale and thus have lower CSE | Number of program participants | Sector and simplified and detailed program level | LBNL DSM Program Impacts Database |
| Labor Costs | Areas with higher labor costs have higher CSE because labor is a significant component of both administrative and (indirectly) incentive costs. | State average wages for the construction industry | Portfolio, sector, and simplified and detailed program levels | U.S. Bureau of Labor Statistics |
| State Policy Environment | Strong efficiency policies can both raise the baseline for energy savings potential and drive program administrators to reach deeper into the economy for savings; over time, both factors | Estimated statewide savings targets, as a percent of retail sales | Portfolio, sector, and program levels | Various reports by LBNL and ACEEE State Scorecards |

⁷³ We plan to explore other hypotheses in future reports.

⁷⁴ This period was chosen largely because reporting of energy efficiency program spending and savings to EIA was less consistent in the early 1990s. See subsection on preliminary findings on program administrator experience for a discussion of the implications of selecting this period.

⁷⁵ We measured experience as the number of years that each program administrator has funded program portfolios at 0.1 percent of retail revenues for that program administrator or for utilities in that program administrator's territory. Where a time series of program funding could not be obtained (e.g., through gaps in reporting or delayed recognition of a non-utility program administrator in the survey data), we used the launch date for a multi-sector portfolio by that program administrator or, in a few cases, relied upon in-house knowledge of the level of energy-efficiency activity by that program administrator.

| | | | | |
|--------------------------------|--|---|---|--|
| | are likely to result in higher CSE. | | | |
| Retail Rate Environment | Higher retail energy costs result in lower CSE because the higher energy costs encourage more customers to invest in energy savings, thus lowering the program administrator's costs of securing participation and savings | Residential, commercial and industrial retail rates | Commercial and Industrial (C&I) and residential sectors | U.S. EIA 826 and 861 reports (the Monthly Electric Sales and Revenue Report with State Distributions Report and the Annual Electric Power Industry Report) |

Through the exercise of developing the hypotheses and identifying associated independent variables, it became clear that several of our theorized influences on the CSE interact in complex ways. Several variables operate in synergistic or countervailing ways. For example, some policies that are generally supportive of saving energy (e.g., energy savings targets) may dampen the costs of saving energy for program administrators in some circumstances and yet increase those costs under other circumstances. Further, the resulting effects may not operate uniformly or in the same direction from one market sector to another or across program types. Thus, the identification of potential influences on the CSEs, development of testable hypotheses and identification of valid independent variables is an iterative process, the early phases of which are described below.

4.2 Approach

For our dependent variable, we chose the first-year electric CSE, which is simply the program administrator cost (2012\$) divided by first-year gross electricity savings (in kWh). The primary advantage of using first-year savings (versus lifetime savings) is eliminating uncertainties associated with the measure lifetime data; see Chapters 2 and 3 for discussion of limitations of lifetime energy savings data.

The disadvantage of using first-year savings is the inability to examine the ways that potential influences on CSEs vary for shorter- versus longer-lived efficiency measures, as using a levelized or lifetime CSE might allow. Since energy resources are generally evaluated over their economic lifetime, we anticipate analyzing factors that may be associated with levelized CSE values.

Statistical Regressions

Statistical regressions do not necessarily imply causality. Regressions can establish correlation or a probability that changing one or more independent variables is significantly associated with a quantifiable change in the dependent variable (e.g., the CSE).

We identified and collected data on the independent variables as proxies for the factors chosen to represent the potential influences over CSE. We then performed single-variable ordinary least squares regressions to screen independent variables, followed by a limited number of multivariate regressions to test the correlation between variables and the relative contributions of the variables. Appendix F describes our data collection procedures for the independent variables, the statistical analysis process and contains a table of these preliminary regression results.

4.3 Preliminary Results: Analysis of Factors that May Influence the Cost of Saved Energy

Our preliminary results to date suggest that many factors influence the CSE, and the degree of those influences varies across market sectors and programs. In the following subsections, we present an illustrative sampling of preliminary results and also discuss some of the challenges in identifying valid independent variables and interpreting results.

4.3.1 Program Administrator Experience

We hypothesized that program administrators with more experience would, to some demonstrable degree, have optimized the efficacy of program implementation and thus have lower CSE values for their portfolio of programs after an initial period. Experienced program administrators might realize these cost savings by one or more mechanisms, including having already established the necessary program infrastructure and trade alliances, identifying cost efficiencies in overhead expenses, and learning what measures and marketing approaches tend to elicit more customer participation or deeper savings.

We defined the program administrator experience variable as follows: each year of spending above a minimum program spending threshold (0.1% of revenues) as reported to the Energy Information Administration counted as a year of experience administering efficiency programs.⁷⁶ Years of experience were summed up for all years where spending exceeded the threshold to the program year for the data being tested. For example, utility X offered an informational energy audit program to customers in 2004 and expanded their programs in subsequent years such that spending exceeded 0.1% of revenues in 2006. Thus, we assumed that this utility had four years of experience for their 2010 programs and five years of experience for their 2011 programs.

The nature of the relationship between first-year CSE values and program administrator experience is depicted in Figure 4-1. The blue dots in Figure 4-1 represent CSE values for the portfolio of programs offered each year by individual program administrators. The cost of first-year gross electricity savings is plotted on the y-axis, the years of program administrator experience are shown on the x-axis.

There may be a quadratic relationship, such that program administrator experience and the cost of first-year savings may trace a curve in which first-year CSE declines as program administrators gain experience and then, beyond a certain number of years, costs increase, as

⁷⁶ See Appendix F for a more detailed explanation of the basis for determining program administrator years of experience. Response rates vary among program administrators from year to year in providing EIA Form-861 information. Third-party program administrators were not included in the EIA datasets until very recently. The names and parent companies for some program administrators changed over time. Some EIA survey data terms and definitions have changed over time and program administrators may have interpreted those terms (e.g., direct vs. indirect spending) in different ways. These limitations increase as the data reaches back to the early years of the EIA survey. We therefore chose to limit the count of years above the spending threshold to a period from 1999 to 2012. We recognize that bounding our metric for program administrator experience to this 14-year period imposes an artificial ceiling on the level of experience for the most mature program administrators. This may affect the correlation between program administrator maturity and the cost of saved energy. However, this impact is likely to be limited because 80% of the program administrators in our dataset have spent above the designated spending threshold for 10 or fewer years.

saturation of low cost measures increases and program administrators offer programs that include more costly measures or target harder to reach market segments. However, a regression analysis with a quadratic specification using the first-year CSE values at the portfolio level does not show a statistically significant relationship,⁷⁷ and the magnitude of the effect, if it exists, is small (see a table of regression results in Appendix F). We plan to gather additional data, refine our method to estimate program administrator experience variable, and re-examine evidence for this relationship.

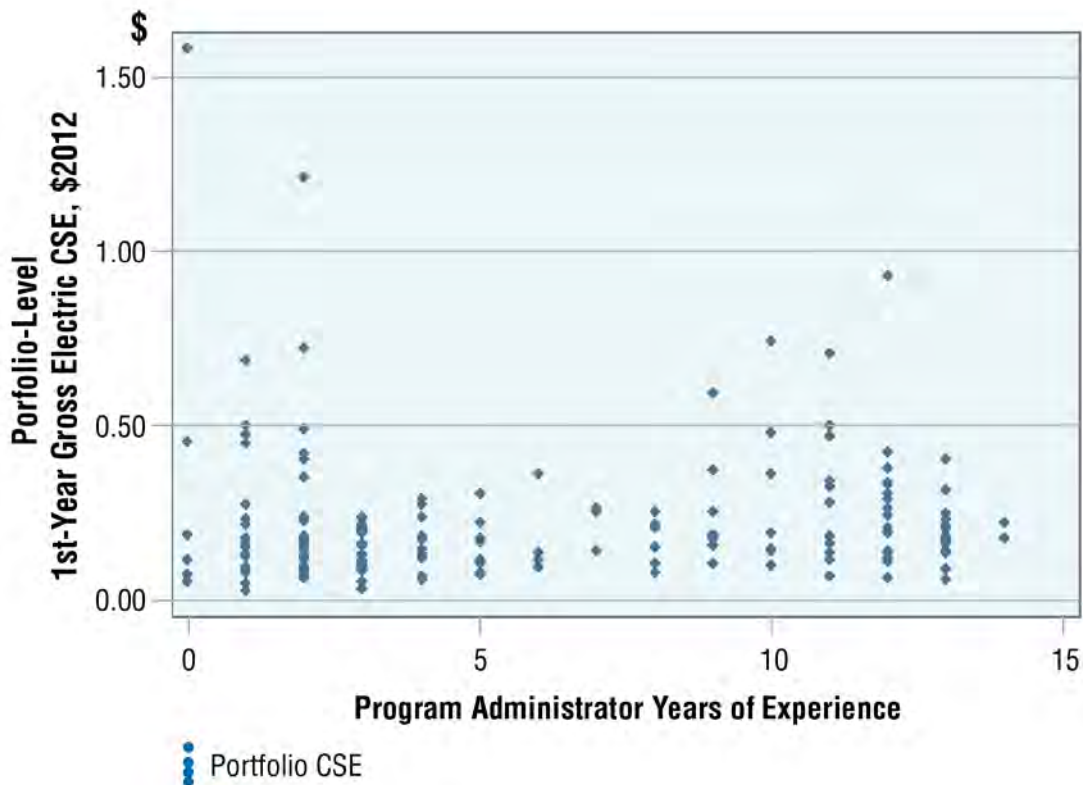


Figure 4-1. First-year portfolio-level CSE and program administrator experience, as measured by years of program spending above a minimal level.

4.3.2 Scale of Program

Based on economic theory, we would expect to see increasing economies of scale (i.e., lower CSE values as program fixed overhead costs are spread among more participant projects) at least up to a certain point. We found that the size of a program, as measured by number of participants, is often, but not always, indirectly associated with a decline in costs for some program types. This result is statistically significant for only certain program types. More reporting of participation levels could help determine, for different program types, when scaling up a program is likely to reduce the cost of saved energy.

As an example, Figure 4-2 depicts the relationship of participant count to first-year CSE for residential appliance recycling programs. The blue dots in Figure 4-2 represent first-year CSEs

⁷⁷ We use a 5% level as a threshold for statistical significance.

and reported participation for individual program years for appliance recycling programs. The red line is a linear fit across the data points, with the slope of the line indicating the predicted relationship between first-year cost performance and participation. For appliance recycling programs in our database, a doubling, or 100% increase, in the number of participants would, on average, be associated with about 0.01% of a reduction in the first-year CSE. This effect is statistically significant at the 5% level.

However, we also found that this effect is not statistically significant⁷⁸ for many other program types.

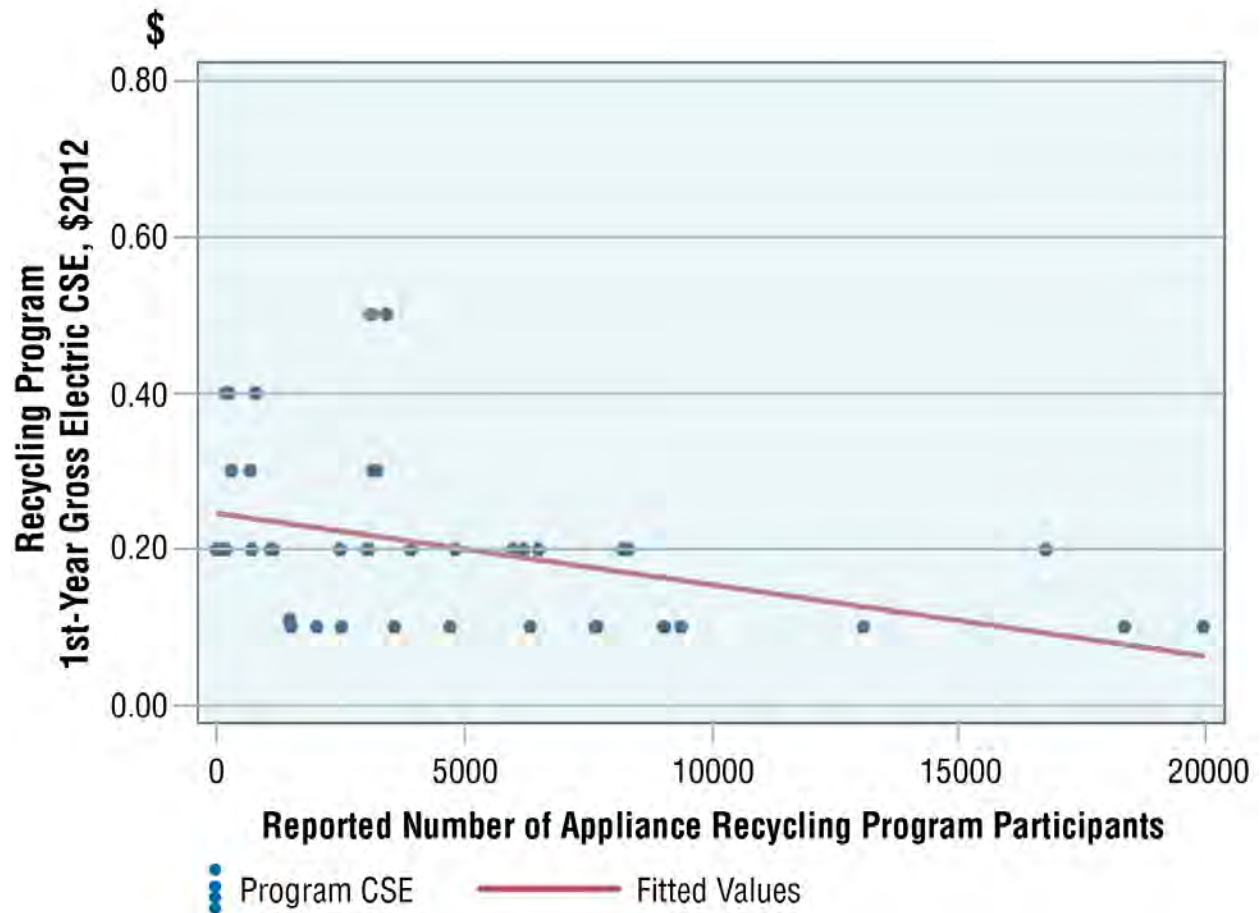


Figure 4-2. First-year CSE for appliance recycling programs and the reported number of recycling program participants

⁷⁸ The relationship between participation and first-year gross CSE for some other residential programs is statistically significant at the 20% level.

4.3.3 Labor Costs

We also theorized that higher labor costs result in higher CSE values (see Table 4-1). We present portfolio-wide CSE values as a function of state average hourly wages for construction industry employees in Figure 4-3. The blue dots represent CSE values for individual program administrator portfolios with the cost of first-year gross electricity savings plotted on the y-axis and the average hourly construction wages for the state in which the portfolios are administered on the x-axis.

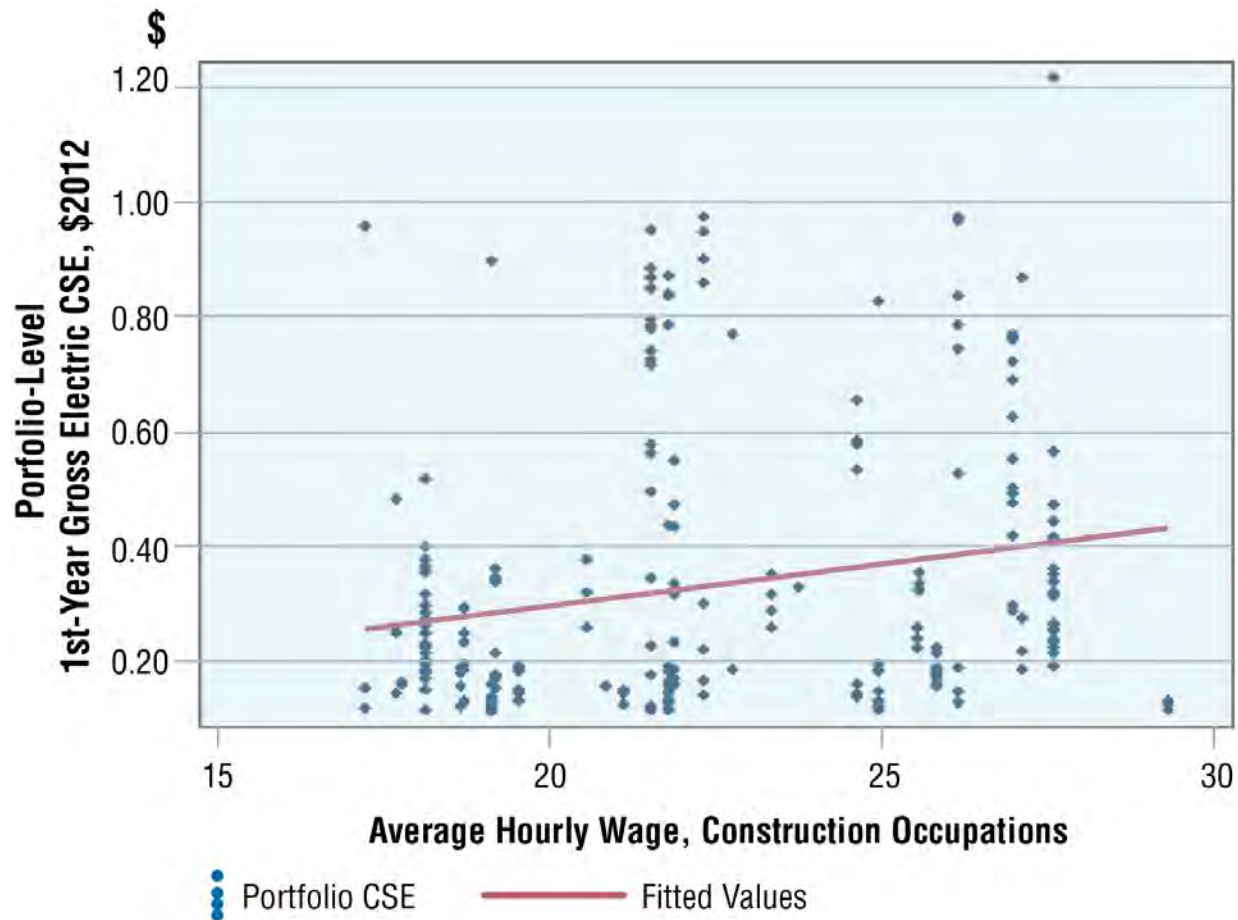


Figure 4-3. First-year portfolio-level CSE values and state average wages for construction industry employees (\$/hour)

We selected construction hourly wages at the state level as our independent variable because research on the makeup of the energy-efficiency program workforce suggests that the construction industry is generally representative of that workforce (Goldman et al., 2010; Carol Zabin, UC-Berkeley Labor Center, personal communication). Our analysis shows that there is a positive correlation between construction wages and portfolio-level first-year gross CSEs. This result is statistically significant at a 5% level. However, the demonstrated effect is generally small, as can be seen from the fairly shallow slope of the fitted line in Figure 4-3. The effect is also neither uniform nor statistically significant across individual program types. As an aside, we also tried state average per capita income as the independent variable and found that the results

are similar to those using construction hourly wages; this seems to indicate that labor costs are likely to play some role in the cost of saving energy.

4.4 Analytical Challenges

We also conducted exploratory analysis of other hypotheses (e.g., policy and retail price environments in which programs operate) and found that results varied substantially by market sector and program type. Many of these theorized relationships with the CSE are significant only at the 10%-15% level; further study is warranted.

The statistical analysis results described in this chapter depend critically on defining valid independent variables as well as the quality and quantity of the primary data underlying both the independent and dependent variables. Some of the difficulty in parsing these effects is a function of limitations in the underlying data for the independent variables. Drawing on an example noted earlier, we used data that program administrators voluntarily reported to the Energy Information Agency (EIA) to develop proxies for years of administrator experience. Program administrators sometimes do not report spending for every year or have interpreted EIA survey questions in different ways. More work is needed to minimize these and other sources of error or uncertainty in values for the independent variables.

Another challenge is specifying independent variables that are not highly correlated with other variables, that is, some proxies for influences on CSE can be overlapping in effect. For example, program administrators with more experience usually are required to achieve higher levels of savings. States that have higher labor costs also often have higher retail rates.

Likewise, it can be difficult to examine economies-of-scale questions when participation data are not provided. No participation data are reported for more than two-thirds of the program years in the database. In other cases, the data may be incorrect (numbers identified as participants are actually units sold or assumed installed) or ambiguous (unit and participant numbers are commingled or undifferentiated). Finally, many other questions pertinent to program design and delivery could be tested if spending breakdowns were available by program (i.e., program expenditures disaggregated into customer incentives, various categories of administration, marketing and outreach, and evaluation).

The primary data contained in the database have limitations, as discussed earlier. For the regression analysis, our total sample size was 2,035 data points. Many of the program years in the database are for gas-only programs, which are not included in an analysis of electricity program CSEs. Moreover, for some programs, the administrator did not report a key value (e.g., did not include program-level spending or allocate program costs by fuel for combination electric-gas programs).

5. Discussion of Key Findings and Recommendations

In this chapter, we summarize key findings from this initial report of the LBNL CSE Project and discuss opportunities for improving information provided by program administrators on the costs and impacts of efficiency programs.

5.1 Key Findings

We calculated the administrator costs of saving a unit of natural gas or electricity and reported the CSE in several ways, through first-year savings, lifetime savings and levelized savings. It is important to note that the CSE values presented in this report are retrospective and may not necessarily reflect future CSE for specific programs, particularly given updated appliance and lighting standards. The cost of efficiency as a function of first-year energy savings may be useful for budgeting to meet incremental annual savings targets. The cost of lifetime energy savings captures the efficiency that accrues throughout the effective lifetime of the implemented measures and therefore is more broadly applicable in designing programs and portfolios. In this study, we focused more attention on the program administrators' levelized cost of energy savings based on gross savings because relatively few program administrators reported the cost contributions of participants (or incremental measure costs) or net savings values. In future reports, our goals are to also provide the "all-in" or total resource CSE and to include CSE values based on net savings as well.

Key findings from this study are:⁷⁹

- The U.S. average electricity CSE was slightly more than two cents per kilowatt-hour in the period 2009-2011 when gross savings and spending are aggregated at the national level and the CSE is weighted by savings.⁸⁰ This levelized CSE is somewhat lower than reported by other previous studies. In a 2009 study, for example, Friedrich et al. found an average program administrator levelized CSE of \$0.025/kWh in constant 2007 dollars or \$0.027/kWh in constant 2012 dollars—about 29% higher than is reported here.⁸¹ The LBNL DSM Program Impacts Database contains a larger sample of program administrators, many of whom may have used longer program measure lifetimes that could affect CSE values. Moreover, nearly 40% of the program administrators in the database that administer electric efficiency programs have offered programs for less than four years and so may be early in accessing energy savings in their respective state economies or be targeting the least costly savings opportunities first.⁸²
- Other findings for electricity efficiency programs include:

⁷⁹ All values reported here are program administrator CSEs for gross energy savings, levelized at a 6% real discount rate and given in constant 2012 dollars.

⁸⁰ This average value is based on the efficiency program portfolios of 100 electric and electric-gas program administrators that represent just less than half of the program spending in the U.S. during 2009 through 2011. These PAs are a large and diverse group in terms of geography, baseline efficiency, and historic levels of program activity.

⁸¹ Friedrich et al. used a slightly lower discount rate (5 percent vs. 6 percent used in this report), so that the actual difference is larger.

⁸² See Appendix A for summary of current and previous CSE research.

- Residential electricity efficiency programs had the lowest average levelized CSE at \$0.018/kWh. Commercial, industrial and agricultural (C&I) programs had a slightly higher average levelized CSE at \$0.021/kWh. Low-income programs show an average levelized CSE at \$0.070/kWh.
- In reviewing regional results, the Midwest programs had the lowest average levelized CSE (\$0.014/kWh) and the Northeast programs the highest (\$0.033/kWh). The average levelized CSE values for programs in the West and South, to the extent sufficient reporting was found, were \$0.023/kWh and \$0.028/kWh, respectively.
- The database provides a valuable resource for understanding the composition and the CSE for various efficiency measures and program types. For example, at least 44% of the reported gross savings in the residential sector came from dedicated lighting programs and lighting rebate programs had a savings-weighted average CSE of \$0.007/kWh with a small inter-quartile range.
- Natural gas efficiency programs had a national, program administrator savings weighted CSE range of \$0.24 (lifetime CSE) to \$0.38 per therm (levelized CSE, 6% discount rate), with significant differences between the commercial/industrial and residential sectors (\$0.11–\$0.17 vs. \$0.32–\$0.56 per therm respectively).
- Not surprisingly, the levelized CSE varied widely both among program types and within program types. We found that the median value was typically higher than the savings-weighted average for nearly all types of programs. One possible explanation is that our sample includes a number of very large programs and for any given program type, larger efficiency programs have lower CSE than smaller programs because administrative costs are spread over more projects (e.g., economies of scale). Some of our statistical analyses tend to demonstrate this relationship; however, other factors are probably at work as well.
- The “all-in” or total resource cost of energy savings is subject to the uncertainties and very limited availability of information on participant costs. Based on our small sample of programs that reported participant costs, we found that the program administrator costs account for about a third to a half of the total CSE (including program administrator and participant costs). One exception is residential Whole-Home Upgrade programs in our database, for which the median value for the program administrator’s CSE is closer to three-quarters of the median CSE value that includes both program administrator and participant costs.
- We developed several hypotheses regarding factors that may influence the variability in the cost of saved energy. Preliminary statistical analyses of cost of first year energy savings suggest that myriad factors both internal and external to program design and implementation play some role in influencing the CSE:
 - Program administrator experience and the cost of first-year savings may show a curve where first-year CSE declines as new program administrators gain experience and then, beyond a certain number of years, costs increase, consistent with administration of portfolios that have matured beyond acquiring the least expensive resources. However, the demonstrated effect is generally small and not statistically significant at this time.

- Higher construction labor costs are associated with higher costs of energy savings at the portfolio level. However, the demonstrated effect is generally small and is not uniform (or statistically significant) across all types of programs.
- The size of a program, as measured by the number of participants, is associated with a decline in costs for some types of programs, suggesting that certain programs (e.g., Appliance Recycling programs) can achieve economies of scale by spreading fixed overhead across more projects. However, we also found that this result is not statistically significant for many other types of efficiency programs. More reporting of participation data could help determine when scaling up a program is likely to reduce costs and for what program types.

5.2 Discussion: Program Data Collection and Reporting

Program administrator annual reports are typically the product of state regulatory requirements or traditional practices that have evolved over time. In compiling and analyzing more than 4,000 program-years of data, we discovered a wide spectrum in the level of detail and completeness in annual program reporting. Barbose et al. (2013) found that over 45 states are running utility customer-funded efficiency programs. Many program administrators report program-level data at a very high level of completeness and transparency. However, we also found many examples of annual reports from program administrators that do not provide a complete picture of the impacts or costs of the efficiency investments at the program level. Although these reports may meet regulatory requirements in their state, they were not sufficient for the purposes of CSE analysis and therefore we were not able to include results from program administrators in many states.

With respect to current program reporting practices, we found:

- Inconsistencies in the quality and quantity of the costs and savings data which led LBNL to develop and attempt to apply consistent data definitions in reviewing and entering program data:
 - Program administrators in different states did not define savings metrics (e.g., varying definitions of net savings) and program costs consistently; and
 - Market sectors and program types were not characterized in a consistent fashion among program administrators.
- Many program administrators did not provide the basic data needed to calculate a CSE at the program level (i.e., program administrator costs and annual and lifetime savings), which introduced uncertainties into the calculation of CSE values.

This project brought into sharp relief the challenges of creating a program spending and savings database and calculating reliable, internally consistent metrics for assessing programmatic energy efficiency. For example, program measure lifetimes are essential for converting annual to lifetime savings while participant costs are essential for calculating the total resource costs of energy savings. We believe that nearly all program administrators must collect this information in order to satisfy cost-effectiveness screening requirements, yet many program administrators did not include this information in their annual efficiency reports:

- Less than 45% of electric program administrators reported lifetime savings;
- About 25% of electric program administrators reported program measure lifetimes;

- Only about half of electric program administrators reported both net and gross annual savings; and
- Less than a third of electric program administrators reported participant costs.

As a practical matter, the quality and quantity of program data reported by program administrators is an important factor in assessing energy efficiency as a resource in the utility sector. Therefore, we encourage further efforts to improve consistency in program administrator reporting of this information.

Regional and national policymakers have also expressed increasing interest in integrating energy efficiency as a resource and the value of transparent and complete reporting of program metrics as a foundation for increasing their confidence in this resource.⁸³ For example, ISO-New England, New York ISO and PJM Interconnection are collecting, or are considering collecting, demand-side spending and savings data from program administrators.⁸⁴ One objective is to develop better load forecasts in order to inform transmission planning, market development and operations. A second objective is to gain visibility into the future for wholesale energy and capacity markets. More rigorous and consistent reporting can help energy markets count and confidently value energy efficiency resources. Finally, all stakeholders that are engaged in any aspect of the efficiency effort share an interest in making energy-efficiency portfolios as cost effective as possible; consistent and more standardized reporting of efficiency program data and metrics are a prerequisite for this to occur.

We believe that there is a direct connection between the maturation of energy efficiency as a utility and national resource and increased consistency in periodic reporting of efficiency program costs and impacts. Additional rigor, completeness, standard terms, and consensus on at least essential elements of reporting could pay significant dividends for program administrators and increase confidence among policymakers and other stakeholders. With more consistent and comprehensive reporting of program results, we may obtain additional insights on trends in the costs of energy efficiency as a resource as program administrators scale up efforts, why those costs might vary from place to place and year to year, what saving energy costs among an array of strategies and what cost efficiencies might be achieved.

⁸³ The Northeast Energy Efficiency Partnerships' (NEEP) Regional Evaluation, Measurement and Verification Forum (EM&V Forum) supports the development and use of common, consistent protocols to evaluate, measure, verify, and report the savings, costs, and emission impacts of energy efficiency. The EM&V Forum has developed the Regional Energy Efficiency Database (REED), launched in early 2013, which includes data from eight states, soon to be nine states and the District of Columbia. REED was informed by the Forum's "Common Statewide Energy Efficiency Reporting Guidelines," which were adopted by the Forum's Steering Committee in 2010. See <http://neep.org/emv-forum/about-the-emv-forum/index>.

⁸⁴ The NY ISO and ISO NE develop projections on efficiency program impacts based on future program budgets and cost information about past program performance. See, e.g., the NY ISO 2013 Gold Book (http://www.nyiso.com/public/webdocs/markets_operations/services/planning/Documents_and_Resources/Planning_Data_and_Reference_Docs/Data_and_Reference_Docs/2013_GoldBook.pdf) and the 2014 Energy-Efficiency Data Review by the ISO NE Energy-Efficiency Working Group at http://www.iso-ne.com/committees/comm_wkgrps/othr/engry_effncy_frcst/2014mtrls/final_2014_eefwg_data_review.pdf

Therefore, we urge state regulators and program administrators to consider annually reporting certain essential data fields at a portfolio level and more comprehensive reporting of program-level data in order to facilitate benchmarking of efficiency program results at state, regional and national levels. The reporting hierarchy in Figure 5-1 illustrates this approach.

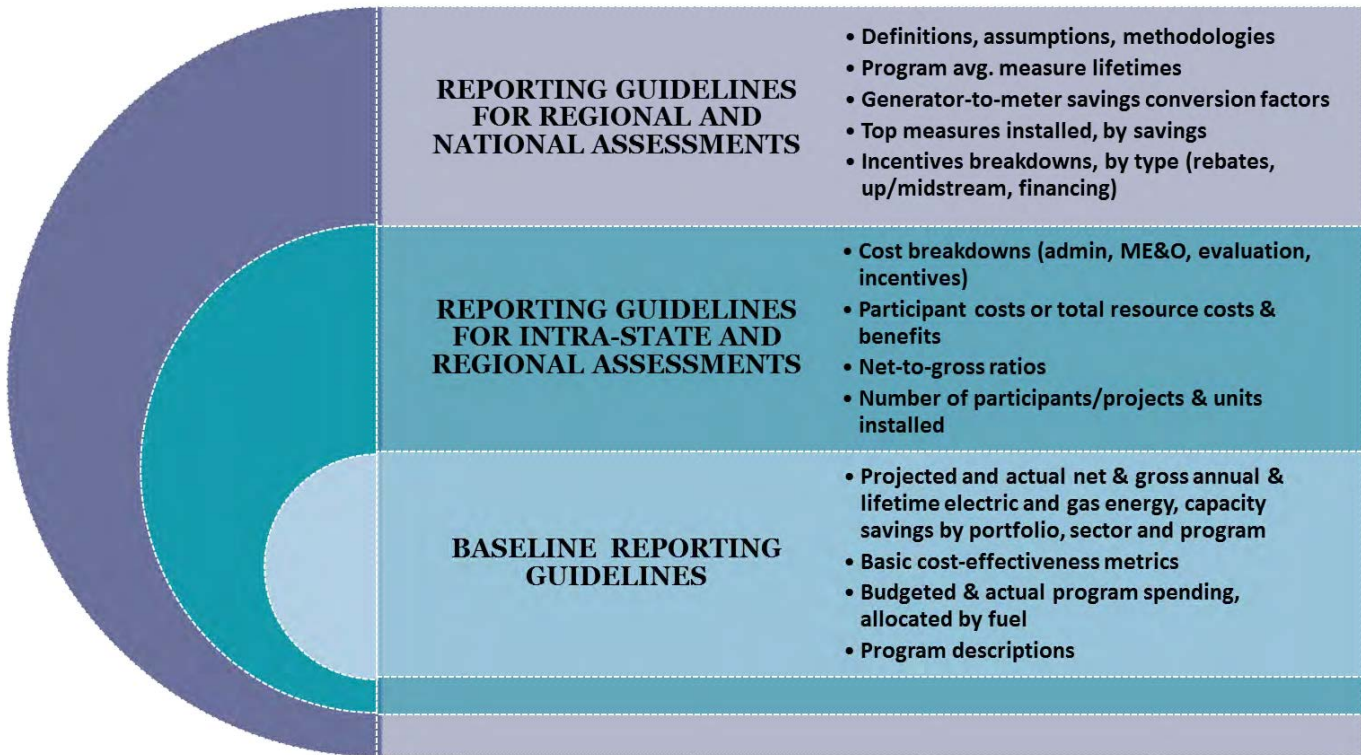


Figure 5-1. Components of annual energy efficiency program reporting

The program information included in each circle above correspond to gradually increasing visibility into program performance, increasing confidence in the reported values and potential relevance to policymakers and more stakeholders across broader geographic areas. The most basic level of reporting (light blue background) provides information that state regulators can use to ensure that programs are available to all customer classes and are cost-effective as implemented. The next level of reporting (teal background) provides critical information for calculating the CSE, assessing program efficacy and market penetration, and ensuring savings are attributable to program activities. The third level of reporting (purple background) enables comparisons of programs and cost performance in different states, reinforces assessments of program efficacy, and allows visibility into key assumptions to ensure those assumptions are valid and comparable to those used by other program administrators.⁸⁵

⁸⁵ The components of annual reporting in Figure 5-1 are not exclusive. A number of states require significantly more, including indicators of performance on multiple fronts. Examples include estimates of market penetration; estimates of economic impacts; and cost breakdowns by internal spending, payments to or for external evaluations, payments to implementation contractors, payments to installation contractors, etc.

If program administrators were to report, at a minimum, the data under the baseline guidelines, this analysis would include nine additional program administrators among the 31 states included in this study, and programs from at least an additional 14 states. This would facilitate a more comprehensive national analysis of the impact of utility-customer funded energy efficiency.

We also encourage program administrators, regulators and other stakeholders to provide feedback on our efforts to encourage consistent reporting of efficiency program results, particularly the program typology and data definitions. We will be soliciting input more formally as we move forward with the next phases of this project. Given sufficient interest and resources, it is our hope to update the LBNL DSM Program Impacts Database on a periodic basis and prepare comprehensive reports and policy briefs that are publicly available that explore key issues in energy efficiency programs.

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US Experience with Efficiency As a Transmission and Distribution System Resource

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Though we could not have completed this report without the help of those identified above, it is important to note that some of the feedback we received was conflicting. In addition, in a few cases, we disagreed with and therefore elected not to make some specific changes suggested by one or more reviewers. We make these points to underscore that we, the authors, are ultimately solely responsible for the information presented and the conclusions drawn in the report.

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Executive Summary

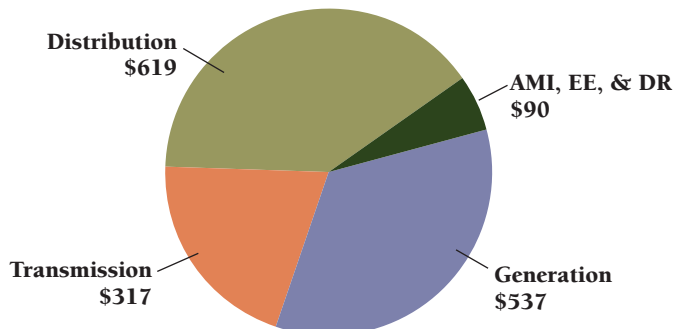
Improvements to electric efficiency in homes and business provide a variety of benefits to both the customers making the improvements and to the electric system as a whole. The most widely recognized are energy savings and system peak demand savings. A much less widely recognized or valued benefit is the potential to enhance the reliability of the transmission and distribution (T&D) system. This paper focuses on that potential, summarizing lessons learned from US initiatives in which geographically targeted efficiency programs have played a major role in electric utility funded efforts to defer T&D investments.

Importance of T&D Investments

The potential to defer T&D upgrades deserves much more serious consideration than it has received to date. The U.S. utility sector has invested on the order of \$35 to \$40 billion per year in the T&D system over the past decade and is forecast to invest nearly \$50 billion per year over the next two decades. As Figure ES-1 shows, this represents approximately 60% of total forecast investments for the sector. Only 6% of the forecast capital investments are in advanced metering infrastructure (AMI), energy efficiency (EE) and demand response (DR). Not all forecast T&D investments will be deferrable. Some will be required to address time-related deterioration of equipment or other factors that are independent of load. However, a significant portion of T&D investment is likely to be associated with load growth. The potential benefits of deferring even a

Figure ES-1

US Power Sector Capital Investment Needs (2010 – 2030)
(in billions of 2009 dollars)



modest portion of such investments could be substantial.

Passive Deferral vs. Active Deferral

Efficiency programs can defer T&D investments either passively or actively. We define “passive deferrals” as those that occur as a result of efficiency programs that were not undertaken primarily for the purpose of deferring T&D upgrades. For example, system-wide efficiency programs will reduce loads on virtually all major elements of the T&D system. As a result, at least some load growth-related investments in the T&D system will be deferred for at least some period of time. Indeed, Consolidated Edison (Con Ed) reduced its projected T&D capital expenditures by more than \$1 billion after separately adjusting 10-year load forecasts for each of its 91 distribution networks and load areas in New York to reflect the expected impacts of system-wide efficiency programs.

In contrast, “active deferrals” are those that result from efficiency programs that are geographically-targeted for the express purpose of deferring the need for upgrades to specific elements of the T&D infrastructure. Though there are a number of notable exceptions, this concept has not yet been widely pursued due to a variety of inter-related factors:

- **Financial incentives** – utilities typically earn more from investing in “poles and wires” than from investing in efficiency and/or other alternatives;
- **Efficiency’s multiple attributes/benefits** – because efficiency investments provide energy savings, peak capacity savings, reserve margin savings, and other benefits in addition to T&D reliability improvements, comparing them to “poles and wires” investments requires a holistic, systemic perspective that has not been universally adopted by utilities, their regulators, independent system operators (ISOs), or regional transmission operators (RTOs);
- **System planning is highly technical** – the technical specialization needed to do T&D planning fosters an environment biased to technical solutions;
- **System engineers distrust demand resources** – those charged with planning to meet reliability needs typically have limited interaction with efficiency program managers and limited direct experience with the performance of demand resources;

- **Risk aversion** – utilities are typically reluctant to try new approaches, particularly if they perceive any regulatory risk in doing so;
- **Socialization of transmission investment costs** – while the cost of transmission solutions are often socialized regionally, the cost of efficiency programs or other non-wires solutions that could meet the same reliability objectives are not; and
- **Responsibility for transmission planning is diffuse** – with state regulators, utilities, independent system operators or regional transmission operators and the Federal Energy Regulatory Commission all having roles, it is difficult for a new approach (i.e. non-wires solutions) to gain traction.

U.S. Experience with Active Deferrals of T&D Investments through Efficiency

Though far from widespread, a number of jurisdictions have tested and/or are in the process of testing the role that geographically-targeted efficiency programs could play in cost-effectively deferring T&D investments. This paper examines ten different initiatives or policies – four in the 1990s and six others that are much more recent and/or still underway. As summarized below, this experience provides valuable lessons to guide future policies for the successful deployment of energy efficiency as a T&D resource.

Pacific Gas and Electric's Delta Project (California, early 1990s)

The project aimed to defer the need for a new substation that would otherwise be required to serve a growing community of 25,000 homes and 3000 businesses in far eastern Contra Costa County. Several efficiency programs were quickly launched in the region to reduce peak loads, with more than 10% of homes receiving some major measures. The project did defer the need for the substation for at least two years, though at a higher cost than expected because some measures provided much lower peak savings than expected. While other measures provided greater savings than expected, the compressed timeframe for the project did not allow for switching of strategies early enough to keep average costs at more reasonable levels.

Portland General Electric's Downtown Portland Pilot (Oregon, early 1990s)

This project focused on several opportunities. In the case of individual buildings where load reductions were needed to defer transformer upgrades, the utility aggressively marketed existing system-wide efficiency programs to

the building owners. For grid network objectives, where peak demand reductions of 10-20% for entire 10-15 block areas were needed, the utility contracted with energy service companies (ESCOs) to deliver savings. Results were mixed. For one building, savings were enough to defer and possibly permanently eliminate the need for a \$250,000 upgrade. In another building an unexpected conversion from gas to electric cooling eliminated any opportunity to defer the upgrade. The ESCOs contracted to achieve savings in a grid area network succeeded in reducing peak load by more than the 20% required. However, the utility's distribution engineering staff decided to proceed with their construction project before the savings were documented.

BPA's Puget Sound Area Electric Reliability Plan (Washington, early 1990s)

The Bonneville Power Administration (BPA) and local utilities decided to address a transmission reliability concern through a strategy of adding voltage support to the existing transmission system (the most important part of the strategy) and more intensive deployment of energy efficiency programs (a complementary element). The project ended up delaying construction of a new cross-Cascade transmission line for more than a decade.

Green Mountain Power's Mad River Valley Project (Vermont, mid to late 1990s)

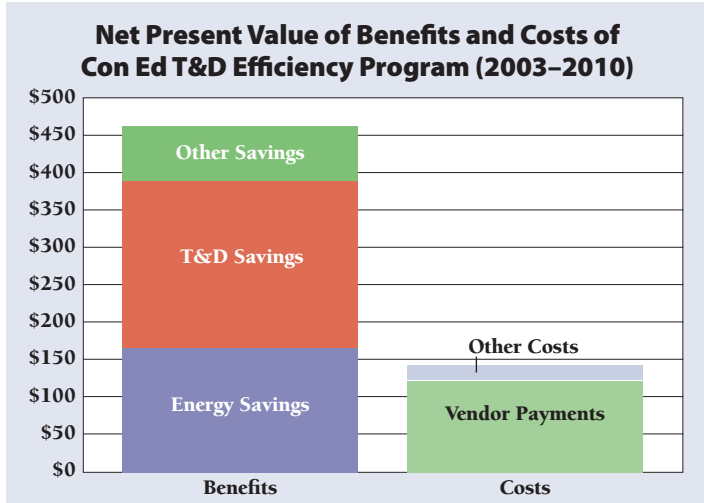
The project aimed to defer the need for a new distribution line in an area dominated by a large ski resort which had announced expansion plans that would add 15 MW of new load to the system. When it became clear that the resort may be required by Vermont regulations to bear most of the cost, negotiations between the utility, the resort and the state's rate-payer advocate led to an alternative plan in which the resort would better manage its load to ensure that total loads were within existing system tolerances and the utility would aggressively pursue efficiency improvements with its customers in the region. In the end, the project succeeded with the efficiency programs coming close to achieving overall savings goals.

Consolidated Edison (New York City, early 2000s to present)

In 2003, Con Ed launched a program to defer distribution system upgrades using a competitive bidding process to select the resources it would pursue. To date, only efficiency resources have been selected. To address reliability concerns, contracts for those resources include both significant upfront security and downstream liquidated damage provisions. All told, between 2003 and 2010, the Company employed geo-

graphically-targeted efficiency programs to defer upgrades in more than one third of its distribution networks. The resulting savings were very close to forecast needs and, as Figure ES-2 shows, provided more than \$300 million in net benefits to ratepayers. In some cases, the efficiency investments not only deferred upgrades, but bought enough time to allow the utility to refine load forecasts to the point where it now believes that capacity extensions may never be needed.

Figure ES-2



Efficiency Vermont Geo-Targeted DSM (2007 to present)

Efficiency Vermont’s performance goals were modified to include not only system wide savings targets, but also much more aggressive targets in selected geographic areas which the state’s utilities had identified as candidates for deferring T&D investments. The initiative has had some success. Although peak demand savings in the targeted areas were at least 30% below targets, they were still three to five times greater than those achieved statewide (notable since the statewide savings were already the highest in the nation). The state’s largest utility has observed that it has not had to schedule deployment of additional system upgrades in the targeted areas. The extent to which that is attributable to the geo-targeted efficiency programs, changes in economic conditions, other factors has not yet been determined.

NV Energy (Nevada, late 2000s)

NV Energy launched an efficiency initiative in and around Carson City in an effort to obviate the need to either run the locally situated but relatively expensive Fort Churchill generating station more frequently or construct a new transmission line and substation to bring less expensive power into the region. At the same time, the

utility began re-conductoring the existing 120-kVA line to the region. An economic recession also hit at the same time, dampening growth. As a result, the Company has not had to revisit the need for either running the Fort Churchill station more often or adding new T&D capacity.

Central Maine Power (currently under development)

In 2010, the Maine regulators approved a settlement agreement that supported construction of most elements of a large transmission project, but identified two areas – the Mid-Coast region and the city of Portland – where pilot projects to test the efficacy of non-transmission alternatives would be launched. In March 2011, Central Maine Power filed a plan for the Mid-Coast region that proposed using a competitive process to identify and acquire needed distributed resources. The plan suggested that efficiency resources were expected to be “highly competitive”. A variety of issues regarding both the forecast capacity needs and the process for acquiring distributed resources were unresolved as this report was being finalized.

National Grid (Rhode Island, currently under development)

In 2006, Rhode Island adopted a “System Reliability Procurement” policy that required utilities to file plans every three years. The plans must consider non-wires alternatives – including energy efficiency – whenever a T&D need is not based on an asset condition, would cost more than \$1 million, would require no more than a 20% reduction in load to defer and would not require investment in a “wires solution” for at least three years. Based on these guidelines, in late 2011, National Grid proposed an initial pilot project to defer the upgrading of a substation through a combination of load management and energy efficiency.

Bonneville Power Authority (Washington, Oregon and Idaho, currently under consideration)

In 2002, the Bonneville Power Authority launched an initiative in which it committed to investigating options for deferring potential transmission reinforcement projects. A year later, it formed a Non-Wires Solutions Round Table of key stakeholder groups to provide input to its work. It then developed a formal process by which transmission alternatives – including efficiency – would be assessed. That process includes an initial screening to determine if a project is a possible candidate for a non-wires solution. The project qualifies if it is estimated to cost at least \$5 million, it is driven by load growth and the need is at least eight years in the future. Bonneville is currently conducting detailed

feasibility assessments of non-wires solutions to three projects – one each in Oregon, Washington and Idaho – that passed this initial screen. In each case, efficiency is part of a package of options being considered.

Lessons Learned

Our review of these efforts to use efficiency programs to defer T&D investments – alone or in concert with other resources – leads us to the following initial conclusions:

- **Geographically-targeted efficiency can defer T&D investments.** That appears to have been the case in New York City; Vermont’s Mad River Valley; Portland, Oregon; and Contra Costa County, California.
- **Efficiency can be a cost-effective T&D resource.** There is less evidence regarding the cost-effectiveness of efficiency as an alternative to T&D investments. However, analysis of the most intensive and longest-standing effort – Con Ed’s experience in New York City – concluded that T&D savings alone out-weighed the cost of efficiency. When all efficiency benefits are considered, the initiative had a three-to-one benefit-cost ratio.
- **Unexpected events can affect the benefits of efficiency.** In several of the cases analyzed, some or all of the T&D investment being considered for deferral ended up being constructed for reasons having nothing to do with the effectiveness of deployment of efficiency resources. However, forecasting uncertainty works in both directions. Indeed, in a couple of cases, efficiency investments bought enough time to enable a utility to conclude that – contrary to initial forecasts – a T&D upgrade may never be needed.
- **Sufficient lead time is critical.** It is necessary to allow for sufficient planning, for sufficient deployment of efficiency resources to meet needs (particularly for larger projects) and for refinement of efficiency strategies during the deployment process.
- **Smaller is easier.** The smaller the area being addressed, the easier it is to consider efficiency and other non-wires alternatives. It is easier to characterize the opportunity in small areas. Also, savings will need to be acquired from fewer customers. Both of those things mean shorter lead times will be required.
- **Distribution is easier than transmission.** Distribution deferral projects will be smaller in scope. They are also less technically complex, involve fewer parties, and do not involve ISOs/RTOs and associated regional cost allocation frameworks (i.e. cost socialization issues).
- **Cross-discipline communications is critical.** Collaboration between efficiency program managers and T&D planners is critical to considering deploying

efficiency as an alternative to T&D investments. Both have much to learn from each other. Some level of trust must be developed between the two groups.

- **Efficiency should be integrated with other distributed resources.** Although efficiency programs can sometimes be sufficient to defer T&D investments, they will often need to be deployed in concert with demand response, distributed generation and other resources to enable deferral of T&D investments (particularly for larger projects).

Recommendations

The potential economic and other benefits of efficiency programs as a T&D resource are largely being ignored today. Some fundamental policy changes are required if that is to change:

- **Require least-cost T&D planning.** Experience in several jurisdictions suggest this is essential (though not sufficient) to beginning serious consideration of efficiency and other non-wires alternatives.
- **Require consideration of integrated solutions.** To ensure that potential synergies between efficiency and other non-wires alternatives are considered, any requirement for least cost-planning should make clear that all options, including different combinations of distributed resources, should be considered.
- **Institutionalize a long-term planning horizon.** The longer the lead time, the more likely it will be that efficiency and/or other distributed resources could cost-effectively defer T&D investments. At a minimum, T&D needs should be forecast at least 10 years into the future.
- **“Level the playing field” in payment for wires and non-wires alternatives.** Cost-allocation frameworks that socialize costs for transmission projects across a region but require all the cost of non-wires alternatives to be born locally create enormous disincentives to pursue least cost solutions.
- **Collect more data on efficiency’s impacts.** In much of the country, relatively little data on the hourly and seasonal impacts of efficiency resources has been collected and made public over the past two decades. Better data should help address concerns of T&D system planners.
- **Start with pilot projects.** Pilots offer important, lower risk opportunities to bring together efficiency program and T&D planners.
- **Leverage “smart grid” investments.** Customer and end-use data collected through such systems may enable better assessments of the potential for efficiency to serve as a T&D resource.

Table Of Contents

| | | | |
|--|---------------------------|--|--------------------------|
| Acknowledgements | <i>inside front cover</i> | Distribution is Easier than Transmission. | 20 |
| I. Introduction. | 2 | Cross-Discipline Communication is Critical. | 20 |
| Context – Historic and Future Investments in T&D. | 2 | Integrate Efficiency with | |
| “Passive Deferral” vs. “Active Deferral” | 3 | Other Distributed Resources | 20 |
| II. Active Deferral of T & D Investment – Selected Examples | 6 | IV. Recommendations | 21 |
| A. Early History | 6 | Require Least Cost T&D Planning | 21 |
| Pacific Gas and Electric (California) – | | Rhode Island | 21 |
| Delta Project | 6 | Vermont | 21 |
| Portland General Electric (Oregon) – | | Bonneville Power Administration | 22 |
| Downtown Portland Pilot | 7 | Require Consideration of Integrated Solutions | 23 |
| Bonneville Power Administration. | 8 | Institutionalize a Long-Term Planning Horizon | 23 |
| Green Mountain Power (Vermont) – | | “Level the Playing Field” in Payment for | |
| Mad River Valley | 8 | Wires and Non-Wires Alternatives. | 24 |
| B. More Recent Developments | 10 | Collect More Data on Efficiency’s Impacts | 24 |
| Consolidated Edison (New York City). | 10 | Start with Pilot Projects | 24 |
| Efficiency Vermont Geo-Targeted DSM | 12 | Leverage “Smart Grid” Investments | 24 |
| Central Maine Power | 15 | Appendix A: Rhode Island Standards for Least Cost | |
| NV Energy | 16 | Procurement and System Reliability Planning – | |
| III. Lessons Learned | 18 | Excerpt on Distributed Resources in Relation | |
| Geographically-Targeted Energy Efficiency | | to T&D Investment | 25 |
| Can Defer T&D Investments | 18 | Appendix B: Excerpts from Vermont’s Act 61. | 27 |
| Efficiency Can Be a Cost-Effective T&D Resource | 18 | Bibliography. | 29 |
| Stuff Happens! Unexpected Events Can | | Other RAP Publications on Energy Efficiency | 31 |
| Affect Benefits of Efficiency | 18 | Acronym Glossary | <i>inside back cover</i> |
| Sufficient Lead Time is Critical. | 19 | | |
| Smaller is Easier. | 20 | | |

1. Introduction

Improvements to electric efficiency in homes and businesses provide a variety of benefits to both the customers making the improvements and the electric system as a whole.¹ The most widely recognized are annual energy savings and system peak demand savings. Most consumers are primarily interested in energy savings because they typically drive cost savings on electricity bills. Utilities and grid operators are often most interested in reductions in load at the time of system peak, which enable them to avoid purchasing expensive peak generating capacity. A much less commonly recognized or valued benefit of efficiency investments is the potential for cost-effectively deferring upgrades to transmission and distribution (T&D) systems.

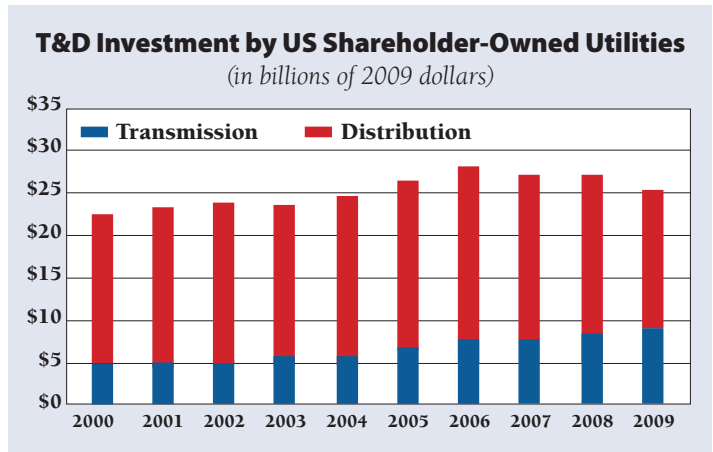
This paper focuses on that potential. In particular, it summarizes US experience to date and lessons learned from initiatives in which geographically targeted efficiency programs have played a major role in electric utility funded efforts to defer transmission and/or distribution system investments. Although other demand resources such as demand response and distributed generation can also be considered viable alternatives to T&D investments and have occasionally been deployed for that purpose, this paper does not explore those options in any detail, except when they are deployed as part of a multi-pronged strategy in conjunction with geographically targeted efficiency programs.

Context – Historic and Future Investments in Transmission and Distribution

The potential to defer upgrades to T&D warrants much more serious consideration than it has historically been given. As Figure 1 shows, T&D investments by investor-owned utilities, which collectively account for approximately two thirds of electricity sales in the United States, have averaged about \$26 billion annually over the past decade.

If public utilities are investing in T&D at the same rate, then total T&D investment nationally would be on the order of \$40 billion per year. That level of investment is expected to continue, if not increase, in the future. Indeed, as Figure 2 illustrates, the Edison Electric Institute

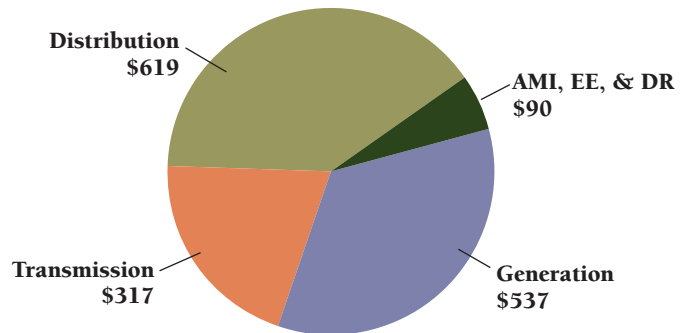
Figure 1²



recently commissioned a study that concluded the US power sector, including both investor-owned and public utilities, will require over \$1.5 trillion in capital investments

Figure 2³

US Power Sector Capital Investment Needs (2010 – 2030) (in billions of 2009 dollars)



- 1 There are also often a number of non-energy benefits (e.g., improved comfort, water and/or other resource savings, reduced operation and maintenance costs, increased productivity) that we do not address in this paper.
- 2 Personal communication with Steve Frauenheim, Edison Electric Institute (EEI), August 5, 2011. Data are from EEI's Statistical Yearbook of the Electric Power Industry 2009 Data, Table 9.1.

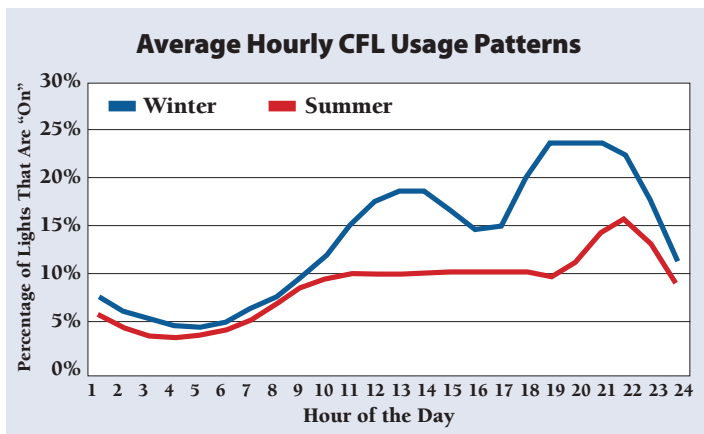
between 2010 and 2030 (2009 dollars), and that 40% of that investment – more than \$600 billion (i.e., more than \$30 billion/year) – will be in distribution system infrastructure and another 20% – more than \$300 billion (i.e., more than \$15 billion/year) – will be in transmission system infrastructure. Only about one third of the forecast investment is in new generation; another 6% is in advanced metering infrastructure, energy efficiency, and demand response.

“Passive Deferral” vs. “Active Deferral”

Deferrals of T&D investments can take two forms: passive deferral and active deferral. Passive deferral occurs when the growth in load or stress on feeders, substations, transmission lines, or other elements of the T&D system is reduced as a result of broad-based (e.g., statewide or utility service territory-wide) efficiency programs. For example, a statewide program to promote the sale and purchase of compact fluorescent light bulbs (CFLs) will have the effect of lowering loads on every element of the T&D system every hour of the day. To be sure, the amount of load reduction from such a program will vary considerably depending on the season (more during winter than summer), hour of the day (e.g., more during the evening than the day), and the customer mix served (e.g., more for feeders, substations, etc. serving primarily residential customers). As Figure 3 shows, however, the load shape of residential lighting is such that – across a population of program participants – some reductions in energy use will occur every hour of the year. Some reductions thus will occur during every hour of peak demand for every element of the T&D system.

Passive deferral benefits are sometimes reflected in average statewide or utility service territory-wide avoided T&D costs. Such avoided costs – along with avoided costs

Figure 3⁴



of energy and system peak capacity – are commonly used to assess whether efficiency programs are cost-effective (usually a regulatory requirement for funding approval). At the most general level, estimates of avoided T&D costs are typically developed by dividing the portion of forecast T&D capital investments that are associated with load growth (i.e., excluding the portion that is associated with replacement due to time-related deterioration or other factors that are independent of load) by the forecast growth in system load. Such estimates can vary considerably, often as a function of the utilities’ assumptions regarding how much investment is deferrable. For example, in New England, utility estimates of avoided T&D costs typically have ranged from about \$55 per kW-year to \$120 per kW-year.⁵ Avoided distribution costs typically account for 70% to 80% of those values (i.e., avoided distribution costs are typically two to four times greater than avoided transmission costs). Estimates for several utilities in California and the Pacific Northwest have ranged from \$30 to \$105 per kW-year, with an average of close to \$50.⁶ Again, avoided distribution costs are the larger

3 Chupka, Marc et al, (The Brattle Group). *Transforming America’s Power Industry: The Investment Challenge 2010-2030*, prepared for the Edison Foundation, November 2008. The forecast presented here is for the report’s base case scenario, including “realistically achievable potential” for energy efficiency and demand response. The report’s 2006 costs were increased by 6.4% so that they could be presented in 2009 dollars (based on changes in the Consumer Price Index between 2006 and 2009).

4 Nexus Market Research, *Residential Lighting Markdown Impact Evaluation*, submitted to Markdown and Buydown Program Sponsors in Connecticut, Massachusetts, Rhode Island, and Vermont, January 20, 2009 (from Figures 5-1 and 5-2).

5 Most are in the range of \$55 to \$85 (Synapse Energy Economics, *Avoided Energy Supply Costs in New England: 2009 Report*, revised October 23, 2009, p. 6-66). Vermont’s, however, is approximately \$120 per kW-year for summer peak savings and \$80 per kW-year for winter peak savings (personal communication with Erik Brown, Efficiency Vermont, December 23, 2011).

6 Northwest Power and Conservation Council, *Sixth Northwest Conservation and Electric Power Plan*, February 2010 (http://www.nwcouncil.org/energy/powerplan/6/final/SixthPowerPlan_Appendix_E.pdf), p. E-14.

of the two components – on the order of twice as large as avoided transmission costs.⁷ At the other extreme, in some jurisdictions it is conservatively assumed that no T&D investments can be avoided.⁸

Active deferral of T&D investments can occur when a conscious decision is made to invest in energy efficiency measures or programs – in targeted geographic locations – for the specific purpose of lowering loads on local T&D system elements. This concept has been actively pursued in relatively few jurisdictions to date. A variety of factors likely contribute to its limited testing for both transmission and distribution needs:

- **Economic incentives.** Utilities typically earn rates of return on capital investments. In many jurisdictions they do not make money on investments in efficiency.⁹
- **Efficiency's multiple attributes/benefits.** Efficiency resources provide a variety of benefits, including energy savings, peak capacity savings, environmental emission reductions, and T&D reliability improvements. Properly assessing whether efficiency could be a cost-effective alternative to T&D investments requires accounting for all of those benefits (e.g., although efficiency may not be cost-effective when considering just its T&D reliability benefits, it may be when considering all its benefits). That requires a holistic, systemic perspective that has not been universally adopted by utilities or their regulators, however, and is generally not a concern of ISOs/RTOs.
- **System planning is highly technical.** The technical specialization needed to do T&D planning fosters an environment biased to technical solutions. Put

another way, utilities and ISOs/RTOs tend to be engineering oriented, with a propensity toward building capacity to meet growing consumer demand.

- **System engineers distrust of demand-side resources.** System engineers trust assets that they can control, like “poles and wires,” and tend to be more skeptical or distrustful of investments on the customer side of the meter to reduce demand.
- **Risk aversion.** Related to the point above, utilities (like many other businesses) are often reluctant to try something different, particularly if they perceive any regulatory risk from doing so.

In general, the barriers to deployment of non-wires solutions to transmission needs are greater than those for distribution system needs. To begin with, transmission needs are typically more technically complex. In addition, the magnitude of the demand resources needed to defer them are larger and spread across much larger populations of customers. That can enhance system planners' fear of the ability of demand resources to meet reliability needs. It also typically means that longer lead times for consideration of non-wires solutions are necessary. Two additional factors are also critically important.

- **Socialization of transmission investments, but not non-wires alternatives.** The costs of transmission investments are often socialized regionally (i.e., across the entire grid), whereas the costs of efficiency programs or other non-wires solutions must typically be borne entirely by the local utility and its customers. This creates a classic “tragedy of the commons” in which it is less expensive for the local utility to choose what is often the most expensive option for a region.

7 Ibid. Figures E-5 (avoided transmission costs) and E-6 (avoided distribution costs) each provide eight separate examples. Only three of those examples are common, however: PG&E, PacifiCorp and PGE. For those three utilities, avoided distribution cost estimates were roughly double avoided transmission cost estimates.

8 For example, see: Consumers Energy, *2012-2015 Amended Energy Optimization Plan*, submitted to the Michigan Public Service Commission, Case No. U-16670, August 1, 2011, p. 25.

9 A recent ACEEE study identified 18 states that had a mechanism that allowed investor-owned utilities to earn shareholder incentives for good performance in administering efficiency programs (Hayes, Sara et al, *Carrots for Utilities: Providing Financial Returns for Utility Investments in Energy Efficiency*, ACEEE Report Number U111, January 2011).

- **Diffusion of responsibility for transmission planning and decision-making.** State regulators, utilities, ISOs/RTOs, and ultimately FERC all have roles in transmission planning and approval of transmission investments. It is difficult for a new approach (i.e., non-wires solutions) to get traction when there is no one entity “in charge” that can require consideration of such approaches. It is unclear how the recent FERC Order 1000, which requires ISOs/RTOs to consider state policies in their decisions, will change things.

Despite these barriers, aggressive geographically targeted

energy efficiency programs have been implemented in several jurisdictions in an attempt to defer specific T&D projects. The purpose of this paper is to document the lessons learned from those efforts. Again, although there are a variety of potential non-wires alternatives that can be and have been deployed to defer T&D investments, the focus of this paper is only on those projects in which energy efficiency played or is playing a substantial role. It is also important to note that this paper documents the consideration of efficiency as a T&D resource as of late 2011. Several of the cases described below are still evolving, potentially in ways that could add significantly to information and ideas presented herein.

2. Active Deferral of T&D Investment – Selected Examples

A. Early History

The concept of using geographically targeted energy efficiency investments to cost-effectively defer T&D system upgrades is not a new one. One can find numerous papers on the concept in efficiency conference proceedings going back to at least the early 1990s. The Electric Power Research Institute (EPRI), a research organization serving the utility industry, began pursuing several projects to assess the potential for integrating demand-side management (DSM) into utility T&D planning during the same time period. Most important, several groundbreaking projects were undertaken in the 1990s to test the concept. What follows are brief descriptions of those projects.

Pacific Gas and Electric (California) – Delta Project

One of the most widely publicized of these early projects was the Pacific Gas and Electric (PG&E) Model Energy Communities Program, commonly known as the Delta Project, which ran from July 1991 through March 1993. Its purpose was to determine whether the need for a new substation that would otherwise be required to serve a growing “bedroom community” of 25,000 homes and 3,000 businesses in far eastern Contra Costa County, California could be deferred through intensive efficiency investments. Peak demand in this area occurred on summer weekdays between 7 pm and 8 pm – much later than PG&E’s system peak (typically between 3 pm and 5 pm). This later local peak was driven by the fact that 74% of the peak load was residential, with many of the residential customers being two-income families who had long commutes from the San Francisco and Oakland areas and turned on their air conditioners when arriving home to 100° F heat.¹⁰

As a result, the largest portion of the project’s savings was

projected to come from a residential retrofit program targeted to homes with central air conditioning (the vast majority of homes in the targeted area). Under the initial design, participating homes would receive free installation of low-cost efficiency measures (e.g., CFLs, low flow showerheads, water heater blankets) during an initial site visit and would be scheduled for follow-up work with major measures such as duct sealing, air sealing, insulation, sun screening, and air conditioner tune-ups. More than 2,700 homes received such major measures. Later the program changed its focus to promoting early replacement of older, often over-sized and inefficient central air conditioners with new, efficient models. Other components of the Delta Project included commercial retrofits, a residential new construction program, and a small commercial new construction program.

Evaluations suggested that the project produced 2.3 MW of peak demand savings. The savings did come at a high cost – roughly \$3,900 per kW. This can likely be attributed to a couple of key factors. First, the project had an extremely compressed timeframe. It was planned and launched within six months; the implementation phase was less than two years. A second related factor was that some of the efficiency strategies produced much lower levels of savings than initially estimated, whereas others produced more. Because of the compressed timeframe for the project, the switch in emphasis to the better performing program strategies could not occur early enough to keep total costs per kW at more reasonable levels. For example, the residential shell and duct repair efforts were initially projected to generate nearly 1.8 MW of peak demand savings, but in the end, produced only about 0.2 MW at a cost of over \$16,000 per kW. In contrast, the early replacement residential central air conditioners produced 1.0 MW of peak savings – about 2.5 times the original forecast of about 0.4 MW – at a cost of about \$900 per kW.

10 The Results Center, “Pacific Gas & Electric Model Energy Communities Program,” Profile 81, 1994.

The final evaluation of the project suggested that the savings achieved succeeded in deferring the need for the substation for at least two years.¹¹ Although the project suggested that geographically targeted DSM could potentially defer T&D investments, no projects of this kind appear to have been pursued in California since.

Portland General Electric (Oregon) – Downtown Portland Pilot

In 1992, Portland General Electric (PGE) began planning the launch of a pilot initiative to assess the potential for using DSM to cost-effectively defer distribution system upgrades; implementation began in early 1993.¹² The pilot focused on several opportunities for deferring both transformer upgrades planned for large commercial buildings and grid network system upgrades planned for downtown Portland, Oregon. The projects were identified from a review of PGE's 5-year transmission and distribution plan. Although the PGE system was winter-peaking, downtown Portland was summer-peaking, so the focus would be on efficiency measures that reduced cooling and other summer peak loads. To be successful, deferrals would need to be achieved in one to three years, with the lead time varying by project. In each case, the value of deferring the capital improvements was estimated. The estimates varied by area, but averaged about \$35 per kW-year.¹³

Two different strategies were pursued. In the case of the individual commercial buildings, where peak demand reductions of several hundred kW per building were needed to defer transformer upgrades, the utility relied on existing system-wide DSM programs, but target marketed the programs to the owners of the buildings of interest using sales staff that already had relationships with the building owner or property management firm. For the grid network system objectives, where peak reductions of 10% to 20% for entire 10- to 15-block areas were needed, the utility contracted with energy service companies (ESCOs) to deliver savings. The ESCO contracts had two-tier pricing structures designed to encourage comprehensive treatment of efficiency opportunities and deep levels of savings. The first tier addressed savings up to 20% of a building's electricity consumption. The second tier was a much higher price for savings beyond 20%.¹⁴

The results of the pilot were mixed. For example, savings in one of the targeted commercial buildings was nearly twice what was needed, deferring and possibly permanently

eliminating the need for a \$250,000 upgrade. Savings for another building, however, fell short of the amount of reduction needed to defer its transformer upgrade. While other options were being explored to bridge the gap, an unexpected conversion from gas to electric cooling of the building "eliminated any opportunity to defer the upgrade."¹⁵ The results for the first grid area network targeted were also very instructive. Of the 100 accounts in the area, the largest 20 accounted for more than three quarters of the load. By ultimately treating 12 of those 20, the ESCOs contracted by PGE actually succeeded in reducing load through efficiency measures by nearly 25% in just one year. That was substantially more than the 20% estimated to be necessary to defer the need for a distribution system upgrade. The utility's distribution engineering staff decided to proceed with construction of the upgrade before the magnitude of the achieved savings was known, however, because they did not have sufficient confidence that the savings would be achieved and would be reliable and persistent. It is also worth noting that the utility's marketing staff who were managing the ESCO's work were not even made aware of the decision to proceed with the construction until after it had begun – a telling indication of the lack of communication and trust between those responsible for energy efficiency initiatives and those responsible for distribution system planning.¹⁶

Despite some notable successes with its pilot, PGE has not subsequently pursued any additional efforts to defer distribution system upgrades through energy efficiency.¹⁷

- 11 Pacific Gas and Electric Company Market Department, *Evaluation Report: Model Energy Communities Program, Delta Project 1991-1994*, July 1994.
- 12 Personal communication with Rick Weijo, Portland General Electric, August 10, 2011.
- 13 Weijo, Richard O. and Linda Ecker (Portland General Electric), "Acquiring T&D Benefits from DSM: A Utility Case Study," Proceedings of 1994 ACEEE Summer Study on Energy Efficiency in Buildings, Volume 2.
- 14 Ibid.
- 15 Ibid.
- 16 Ibid.
- 17 Personal communication with Rick Weijo, Portland General Electric, August 10, 2011.

Bonneville Power Administration

In the early 1990s, the Puget Sound area received more than three quarters of peak energy (i.e., during times of high demand for electric heat) via high voltage transmission lines that crossed the Cascade mountain range. Bonneville Power Administration (BPA) studies concluded the region could experience a voltage collapse – or blackout or brownout – if one of the lines failed during a cold snap.¹⁸ The level of risk “violated transmission planning standards.”¹⁹

The traditional option for addressing this reliability concern would have been to build additional high voltage transmission lines over the Cascades into the Puget Sound area. BPA and the local utilities chose instead, however, to pursue a lower cost path that included adding voltage support to the transmission system (e.g., “series capacitors to avoid building additional transmission corridors over the Cascades”) and more intensive deployment of energy efficiency programs (focused on loads that would help avoid voltage collapse). The voltage support was by far the most important of these elements.²⁰ The project, known as the Puget Sound Area Electric Reliability Plan, ended up delaying construction of expensive new high voltage transmission lines for at least a decade.²¹ Indeed, no new cross-Cascade transmission lines have been built to date.²²

As discussed further below, BPA has not yet pursued an

additional project to defer transmission system investments with efficiency programs.²³ It has, however, institutionalized a process for assessing whether non-transmission alternatives, including efficiency, would be preferable and, for the past decade or so, has initiated that process on several occasions (the most recent just getting started in the spring of 2011).

Green Mountain Power (Vermont) – Mad River Valley

In 1995, Green Mountain Power (GMP), Vermont’s second largest investor-owned electric utility, launched an initiative – the first of its kind in the state – to defer the need for a new distribution line in the Mad River Valley – a region in the central part of the state made famous by the Sugarbush and Mad River ski resorts. The existing U-shaped 34.5-kV line serving the valley had a reliable capacity of 30 MW. Sugarbush, which was located at the base of the “U” (its weakest point) and was already the largest load on the line, had announced plans to add up to 15 MW of load associated with a new hotel, a new conference center, and additional snow-making equipment. The existing line could not accommodate that kind of increase. Studies suggested that a new parallel 34.5-kV line would need to be added at a cost of at least \$5 million. Sugarbush initially requested that GMP

18 US Department of Energy, Bonneville Power Administration, Public Utility District Number 1 of Snohomish County, Puget Sound Power & Light, Seattle City Light and Tacoma City Light, “Puget Sound Reinforcement Project: Planning for Peak Power Needs,” Scoping report, Part A, Summary of Public Comments, July 1990.

19 Bonneville Power Administration Non-Construction Alternatives Roundtable, “Who Funds? Who Implements?” Subcommittee, “Non-Construction Alternatives – A Cost-Effective Way to Avoid, Defer or Reduce Transmission System Investments,” March 2004.

20 Indeed, although the plan included additional investments in efficiency, the additional capacitors, coupled with the addition of some local combustion turbines, were likely enough to defer the transmission lines even without the additional efficiency investments (personal communication with Frank Brown, BPA, 11/7/11).

21 Bonneville Power Authority, “Non-Wires Solutions Questions & Answers” fact sheet.

22 The system has been significantly altered over the past two decades as a result of substantial fuel-switching from electric heat to gas heat, the addition of significant wind generating capacity (much of it for sale to California), and other factors. At least until recently, BPA thus has had more “North-South issues” than “East-West issues” (personal communication with Frank Brown, BPA, 11/7/11). That may change in the future as utilities begin to rely more on wind generators east of the cascades (personal communication with Joshua Binus, BPA, 12/12/11).

23 In the mid to late 1990s, however, it did invest substantially in a demand response initiative in the San Juan islands to address reliability concerns after the newest of three underwater cables bringing power to the islands was accidentally severed. The initiative ran for five years and succeeded in keeping loads on the remaining cables at appropriate levels until a new cable was added.

pay for the new line. GMP was hesitant to do so, however, and Vermont's line extension rules were such that the utility and others could legitimately argue that much of the cost should be directly imposed on Sugarbush (and therefore less on other ratepayers).²⁴ Ensuing negotiations between GMP, Sugarbush, and the state's rate-payer advocate ultimately led to an alternative solution:

1. Sugarbush would ensure that load on the distribution line – *not just its load, but the total load of all customers* – would not exceed the safe 30 MW level;²⁵ and
2. GMP would invest in an aggressive effort to promote investment in energy efficiency among all residential and business customers in the region.²⁶

To meet its end of the bargain, GMP filed and regulators approved the following four efficiency programs targeted to the Mad River Valley:

- Large commercial/industrial retrofit program (targeting the 10 largest customers in the valley);
- Small commercial/industrial retrofit program;
- Residential retrofit program, focusing particularly on homes with electric heat and hot water (promoting both fuel-switching and weatherization); and
- Residential new construction assessment fee program, which imposed a mandatory fee on all new homes being constructed in the valley to pay for a home energy rating and offered both repayment of the fee and an additional incentive for building the home efficiently.²⁷

A couple of these programs were largely the same as programs GMP was offering to customers across its entire service territory, except that they were more aggressively marketed to Mad River Valley customers. In 1996, the year during which most of the project activity took place, GMP's efficiency program spending on the Mad River Valley represented about one quarter of its total DSM spending,²⁸ despite the fact that the area served represented no more than about 5% of its sales base.²⁹

By the time the targeted efforts were concluded in early 1997, roughly half of the target populations had participated in the small commercial and industrial (C&I) retrofit and residential retrofit programs, and 7 of the 10 customers targeted by the large retrofit program had participated. Further, three of the four programs had achieved their savings goals. The large C&I retrofit program was the one exception, having achieved only about 20% of the forecasted savings (suggesting that the depth of savings achieved per participant was much lower than projected). Because that program represented less than one fifth of the total savings projected for the Mad River Valley project, however, the project as a whole came close to achieving its overall savings goal.

This project was initially touted as “the first of many” designed to address T&D constraints.³⁰ As discussed further below, it took more than a decade for that vision to begin to be realized. Nevertheless, it was an important stepping stone in the process of distributed utility planning in Vermont.

24 Cowart, Richard et al., “Distributed Resources and Electric System Reliability, Regulatory Assistance Project, September 2001. Available: <http://www.raponline.org/document/download/id/682>.

25 This was possible because Sugarbush was such a large portion of the load on the line. It subsequently installed a real-time meter to monitor the consumptions of its own operations and telemetry to monitor total load from all customers at the local substation. It used this information to manage its own operations, including the timing of its snow-making, to keep total loads on the substation below 30 MW. In addition to avoiding any costs associated with its responsibility for the need to upgrade the power line, Sugarbush also received a rate discount from GMP. (Ibid.)

26 Ibid.

27 Green Mountain Power Corporation, “Demand Side Management Program Filing,” April 28, 1995 (Revised 5/5/95).

28 Green Mountain Power Corporation, “Demand Side Management Programs 1996 Annual Report,” April 1, 1997.

29 Personal communication with Dave Grimason, former GMP efficiency program manager, November 7, 2011.

30 Green Mountain Power Corporation, “Demand Side Management Program Filing,” April 28, 1995 (Revised 5/5/95), Executive Summary p. 2.

B. More Recent Developments

In the past several years, several additional efforts to defer T&D system investments have been undertaken. In a couple of additional jurisdictions, processes have been put in place to require that efficiency and other demand resources be considered as alternatives.

Consolidated Edison (New York City)

Consolidated Edison (Con Ed), the electric utility serving New York City and neighboring Westchester County, has been perhaps the most aggressive in the United States in integrating end-use energy efficiency into T&D planning. That integration has occurred on two levels.

First, as part of the annual development of its 10-year “load relief plan” (in which it forecasts any shortfalls in transmission, sub-transmission, and area substation capacity and establishes plans for addressing those shortfalls), the Company now routinely estimates the effects of system-wide efficiency programs on the individual peak demands of each of its 91 distribution networks and load areas, adjusting for the geographic variability in the market penetration of different efficiency programs, the load profiles of different efficiency programs, and the load profiles (and peak periods) of each distribution network. The company recently estimated that “including demand-side management in the 10-year forecast reduced projected capital expenditures by more than \$1 billion.”³¹

Second, Con Ed routinely assesses whether additional, geographically targeted investments in demand resources could cost-effectively defer investments in its distribution system. More important, where analysis suggests such cost-effective deferrals are possible, the utility invests in, closely tracks, and carefully evaluates the impacts of those resources. When Con Ed assesses cost-effectiveness, it considers all the benefits of efficiency investments, not just the T&D benefits (i.e., it compares the net present value of energy savings, system peak capacity savings, and T&D deferral benefits to the costs of the efficiency programs).

This geographically targeted investment in efficiency

began in 2003, when growth in demand was causing a number of Con Ed’s distribution networks to approach their peak capacity. Given the density of its customer base, much of the company’s system is underground, making upgrades expensive and disruptive. The Company thus began to assess whether it would be feasible and cost-effective to defer such upgrades through locally targeted end-use efficiency, distributed generation, fuel-switching, and other demand-side investments. At least initially, the focus was on projects “with need dates that were up to five years out and... required load relief that totaled less than 3% to 4% of the predicted network load.”³² A decision was made to proceed with geographically targeted demand resource investments, however, whenever it was determined that such investments were likely to be both feasible and cost-effective.

To maximize the financial benefits of relying on demand resources, Con Ed has chosen “not to hedge its bets by continuing the T&D planning and implementation process” in parallel with its pursuit of alternative demand resources. Instead, the Company has chosen to contract out the acquisition of demand resources to ESCOs and – to address reliability risks – to include in those contracts both “significant upfront security and downstream liquidated damage provisions,” as well as rigorous measurement and verification requirements. Contract prices are established through a competitive bidding process, with the Company’s analysis of the economics of deferral being used to establish the highest price it would be willing to pay for demand resources. Those threshold prices have varied from network to network. When the amount of demand resources bid at prices below the cost-effectiveness threshold were insufficient to defer T&D upgrades, supply-side improvements have been pursued instead.

In its initial pilot phase, the Company established contracts with three ESCOs to provide load reductions in nine network areas: five in midtown Manhattan, three in Brooklyn, and one in The Bronx. In subsequent phases, four different ESCOs were contracted to deliver load reductions in 21 additional network areas: 13 in Manhattan, four on Staten

31 Gazze, Chris and Madlen Massarlian, “Planning for Efficiency: Forecasting the Geographic Distribution of Demand Reductions,” in *Public Utilities Fortnightly*, August 2011, pp. 36-41.

32 Gazze, Chris, Steven Mysholowsky, Rebecca Craft, and Bruce Appelbaum. “Con Edison’s Targeted Demand Side Management Program: Replacing Distribution Infrastructure with Load Reduction,” in *Proceedings of the ACEEE 2010 Summer Study on Energy Efficiency in Buildings*, Volume 5, pp. 117-129.

Island, and four in Westchester County. Although ESCOs were allowed to bid virtually any kind of permanent load reduction, all of the accepted bids to date have been solely for the installation of efficiency measures. There have been a couple of explorations of distributed generation, but they have not yet been shown to be cost-effective.³³ All told, between 2003 and 2010, the Company employed geographically targeted efficiency programs to defer T&D system upgrades in more than one third of its distribution networks.

This approach has had considerable, but not universal, success. As Figure 4 shows, in aggregate the level of peak load reduction for Phase 1, which ran through 2007, was approximately 40 MW – or 7 MW less than the contracted level. As a result, Con Ed collected considerable liquated damages from participating ESCOs. Load reductions in subsequent phases have been close to those contracted in aggregate. Those aggregate results mask some differences across network areas, however. In particular, reductions in areas dominated by residential loads with evening peaks were achieved ahead of schedule, whereas reductions in areas whose loads were dominated by commercial customers with mid-day peaks have lagged behind goals. On the other hand, much of that commercial sector savings shortfall appears attributable to the recent

Figure 4³⁶

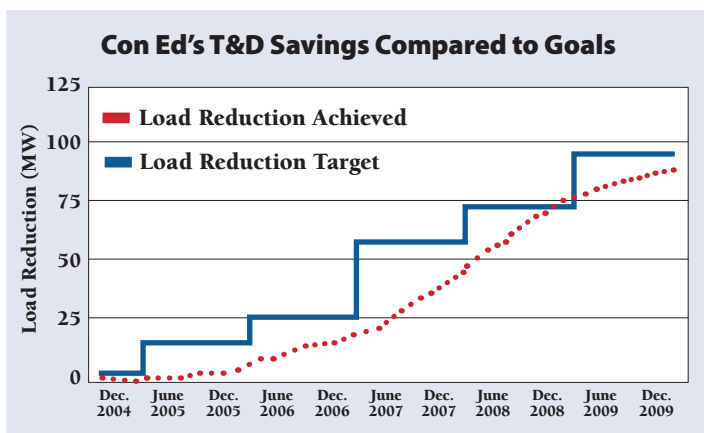
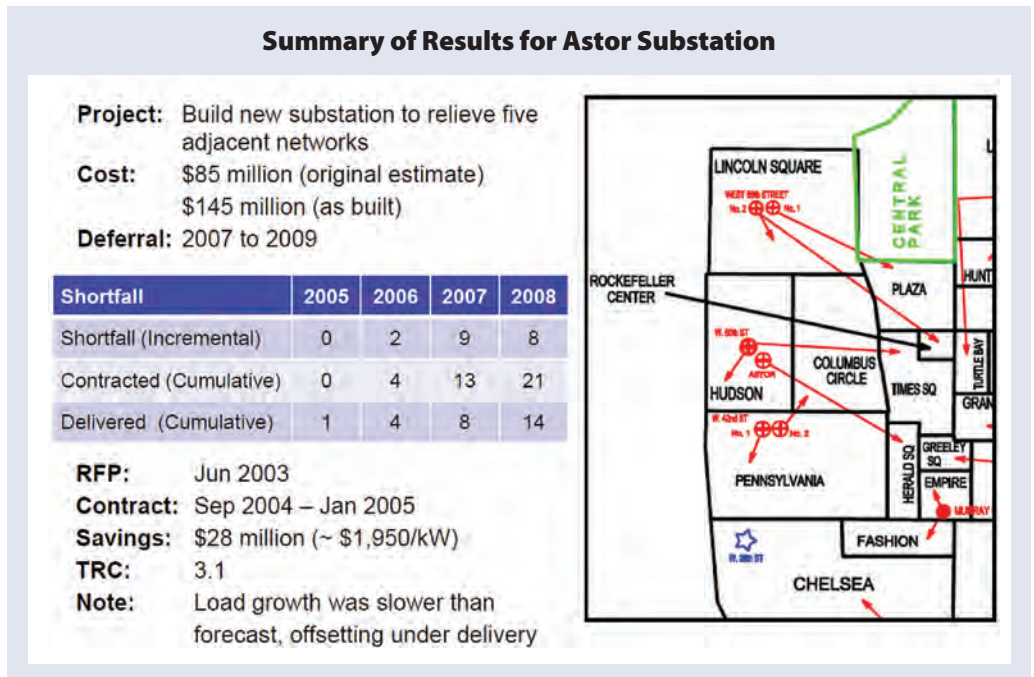


Figure 5³⁷



economic recession, which also had the effect of dampening baseline demand, offsetting most of the efficiency program shortfalls.³⁴ As shown in Figure 5, even when there was a shortfall relative to the savings target for the largest of the T&D deferral projects Con Ed undertook in Phase 1 – the Astor Substation deferral project – the efficiency investments still produced substantial economic benefits (\$28 million, or about \$1,950 per kW of savings) that were very cost-effective (benefit-cost ratio of 3:1).³⁵

This highlights an important benefit of efficiency programs – they are often load-following. Put another way,

33 Although all types of demand resources have been considered, only energy efficiency has been pursued to date, because it is the only demand resource proven to be cost-effective (personal communication with Chris Gazze, February 2011).

34 Gazze, Mysholowsky, and Craft (2010).

35 Gazze, Chris (Con Ed) and Bruce Appelbaum (ICF), “Con Edison’s Targeted DSM Program,” presentation at ACEEE Summer Study on Energy Efficiency in Buildings, August 18, 2010, Pacific Grove, CA.

36 Graph reproduced from Gazze, Mysholowsky, Craft, and Appelbaum (2010) with permission from Con Ed.

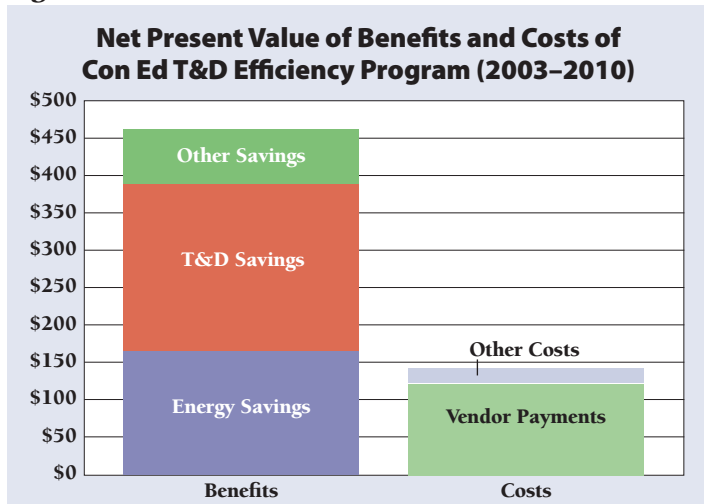
37 Graphic from Gazze and Appelbaum presentation, used with permission from Chris Gazze.

participation in efficiency programs tends to increase when load is growing more quickly and decrease when load is not growing quickly. In that sense, efficiency programs can help mitigate risk associated with forecast uncertainties. As Con Ed put it:

“...using DSM to defer projects bought time for demand uncertainty to resolve, leading to better capital decision making. Moreover, widespread policy and cultural shifts favoring energy efficiency may further defer some projects to the point where they are never needed...In fact, Con Edison has projected that in the absence of this program it would have installed up to \$85 million in capacity extensions that may never be needed.”³⁸

As Figure 6 shows, in aggregate, Con Ed has saved more than \$75 million when comparing the full costs of the efficiency programs to just the T&D costs that were

Figure 6³⁹



avoided. When other efficiency benefits (e.g., energy savings and system peak capacity savings) are also considered, the efficiency investments have saved Con Ed and its customers more than \$300 million.

Efficiency Vermont Geo-Targeted DSM

Shortly after the Mad River Valley project (see discussion earlier) was completed, negotiations began within the state to shift responsibility for efficiency program administration from the utilities to a dedicated “efficiency utility” – eventually to be named “Efficiency Vermont” – that would be selected through a competitive bidding process. The settlement agreement and subsequent September 1999

Public Service Board (the Board) order that created Efficiency Vermont made clear that, although Efficiency Vermont would be responsible for statewide efficiency programs, the utilities would still be responsible for funding and implementing any additional efficiency that could be justified as cost-effective alternatives to T&D system upgrades (although they could contract implementation to Efficiency Vermont). The Board also agreed to “initiate a collaborative process to establish guidelines for distributed utility planning.”⁴⁰ That collaborative culminated in a set of guidelines approved by the Board in 2003,⁴¹ as well as the creation of a number of “area specific collaboratives” in which opportunities for deferring specific T&D upgrades through non-wires alternatives would be explored. None of those discussions led to implementation of any such alternatives, however.

At roughly the same time (i.e., 2003), VELCO, the state’s transmission utility, formally proposed a very controversial large project to upgrade transmission lines from West Rutland to South Burlington (known as the Northwest Reliability Project). As required by Vermont law, VELCO filed an analysis of non-transmission alternatives. In all, five different combinations of alternatives were analyzed – four combinations of different kinds of local generation and a fifth combination of local generation and aggressive DSM. The analysis suggested that the four generation-only options were more expensive than the transmission line, but that the fifth option including DSM had a lower societal cost than the transmission line.⁴² That option, however, would involve much larger capital expenditures than the transmission line. Further, whereas much of the cost of the transmission option would be socialized across the New England Power Pool (Vermont pays a very small share of the portion of costs that are socialized across the region), the cost of the alternative path would be borne entirely by Vermont ratepayers due

38 Gazze, Mysholowsky, and Craft (2010).

39 Cost and benefit data provided by Chris Gazze, February 11, 2011. Note that “other costs” includes program administration (\$2.9 million), M&V (\$9.2 million), and customer costs (\$9.9 million).

40 State of Vermont, Public Service Board Order, Docket No. 5980, pp. 54-58.

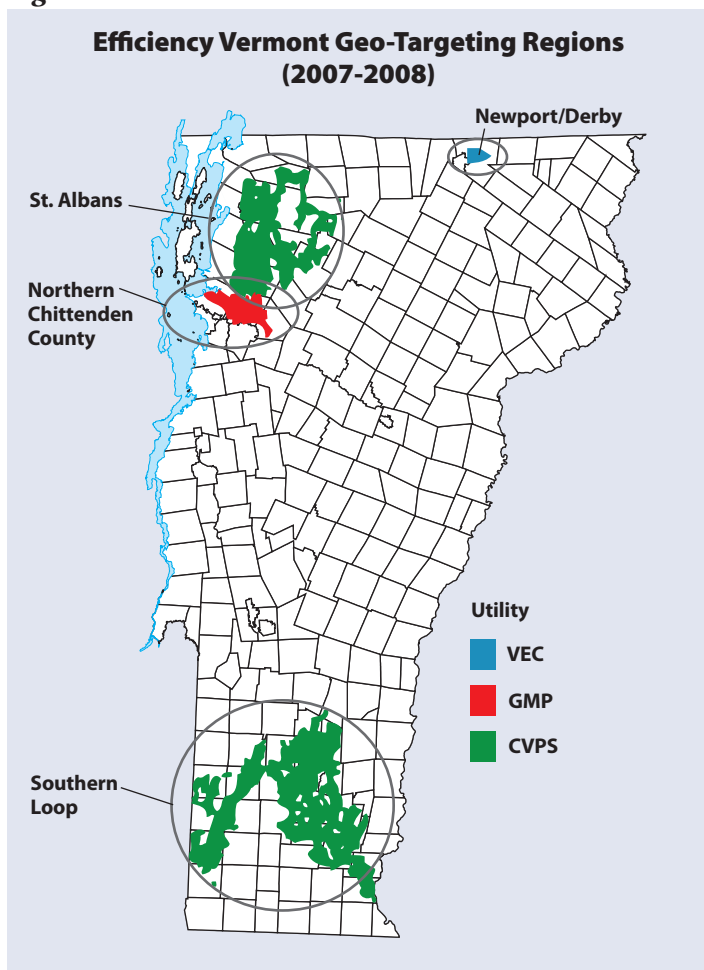
41 State of Vermont, Public Service Board Order, Docket No. 6290.

42 La Capra Associates, “Alternatives to VELCO’s Northwest Reliability Project,” January 29, 2003.

to New England ISO rules. Those concerns, coupled with VELCO's concerns that the level of DSM envisioned would be unprecedented, led the utility to argue in favor of the transmission option.⁴³ The Board ultimately approved VELCO's proposal in early 2005, but expressed concern and frustration with VELCO's planning process, namely that it did not consider alternatives, particularly efficiency, early enough in the process to make them truly viable options.⁴⁴

The approval of the transmission line contributed to the passage later that year of legislation (Act 61) that eliminated the statutory spending cap for Efficiency Vermont, instructed the Board to determine the optimal level of efficiency spending, and made clear that cost-effectively deferring T&D upgrades should be one of the objectives the Board considers in establishing the budget. The Board subsequently increased Efficiency Vermont's budget by about \$6.5 million (37%) in 2007 and \$12.2 million (66%) in 2008 and ordered that all of the additional spending be focused on four geographically targeted areas: northern Chittenden County, Newport, St.

Figure 7⁴⁷



Albans, and the “southern loop” (see Figure 7).⁴⁵ Those areas had been identified by the state's utilities as areas in which there may be potential for deferring significant T&D investment. Collectively, these efforts became known as Efficiency Vermont's “geo-targeting” initiative.⁴⁶

As Table 1 shows, these areas were fairly diverse in terms of the density of population, the geographic area they cover, the relative importance of residential vs. commercial and industrial loads, and the number of large customers. Two of the areas were summer peaking, one was winter peaking, and one had similar summer and winter peaks. The peak loads in the area varied from 18 to 70 MW in 2007. Forecasted load growth without efficiency programs ranged from 1.7% to 4.3% per year. Collectively, the four areas contained 63,000 customers – or 18% of the state's customer base. A total of 167 were large users (greater than 500 MWh of annual consumption), 8,600 were other business customers (many of them quite small), and about 54,000 were residential customers.⁴⁸

It is important to note that the investment in geo-targeting was viewed by the Board, utilities, and Efficiency Vermont as a “proof of concept” experiment. The selection of the targeted areas was rushed and probably not as well vetted as necessary to ensure deferral potential. Indeed, savings targets were not established from an analysis of how much was needed to defer the capital investments. Rather, they were set based on what was estimated to be achievable given available budget resources.

The original 18-month savings targets (from mid-2007 through the end of 2008) were 7.2 MW of summer peak savings (across the three areas with summer peaks) and 7.7

43 Ibid.

44 Vermont Public Service Board, “Board Approves Substantially Conditioned and Modified Transmission System Upgrade”, press release, January 28, 2005.

45 State of Vermont Public Service Board, Order Re: Energy Efficiency Utility Budget for Calendar Years 2006, 2007 and 2008, 8/2/2006.

46 Efficiency Vermont Annual Plan, 2008-2009.

47 Efficiency Vermont Annual Plan, 2007-2008.

48 Massie, Jim, Nancy Wasserman, and Blair Hamilton, “Fast Capacity Reduction through Geographically Targeted, Aggressive Efficiency Investment: Early Results from a Vermont Experiment,” in Proceedings of 2008 ACEEE Summer Study on Energy Efficiency in Buildings, Volume 5, pp. 194-205.

Table 1 ⁴⁹

| Characteristics of Vermont Geographically Targeted Areas (2007-2008) | | | | | | | | |
|--|-----------------|--------------|-------------|---------------------|-------------|----------------|----------------------------|---------------------------------------|
| | Urban vs. Rural | Size of Area | C&I Sales % | Large C&I Customers | Peak Period | 2007 Peak (MW) | Annual Load Growth w/o DSM | Projected Load Growth w/ Targeted DSM |
| N. Chittenden | Urban | Small | 65% | 72 | Summer | 64 | 4.3% | 1.2% |
| Newport | Urban | Small | 64% | 15 | Both | 18 | 1.7% | -0.5% ⁵⁰ |
| St. Albans | Urban | Moderate | 64% | 42 | Summer | 29 | 3.4% | -3.3% |
| Southern Loop | Rural | Large | 48% | 38 | Winter | 70 | 3.4% | -3.4% |

MW of winter peak savings (across the two areas with winter peaks). These targets represented a 7- to 10-fold increase in the peak savings Efficiency Vermont had achieved in the same areas during the previous 18 months. It was estimated that peak demands would not only stop growing but would actually decline in three of the four areas. In the fourth area (Chittenden North), which had the fastest natural growth rate, load growth was projected to decline by about 75% (from 4.3% to 1.2% per year).

To meet these savings goals, Efficiency Vermont implemented a three-pronged strategy:

1. Intensive account management of large commercial and industrial customers (targeted to approximately 148 customers using more than 500 MWh/year) to identify opportunities for deep savings and to negotiate financial incentives (often greater than those offered in other parts of the state) designed to achieve those savings;
2. Launch of an aggressive small commercial/industrial program (targeting those using 40 to 500 MWh/year) in which high savings measures (primarily lighting measures, but also other cost-effective HVAC, refrigeration, and custom measures) designed to achieve an average of 15% savings per business are directly installed at no cost or very low cost to the customer; and
3. Aggressive local promotion of CFLs to residential and small business customers through both targeted marketing campaigns, community awareness campaigns, and the use of direct mail coupons.

All customers in the areas were also still eligible to participate in other statewide programs.

After the selection of the initial four targeted areas, a working group consisting of the state's largest utilities, Efficiency Vermont, and the Vermont Department of Public Service developed a set of criteria for future selections for geo-targeting:

- Areas experiencing high load growth;
- Areas with known concerns regarding the capacity of existing T&D

infrastructure;

- Areas for which the minimum planning horizon for deferral was three years, with a preference for horizons of at least five years; and
- Areas for which there were “no other circumstances requiring immediate investment.”⁵¹

Ultimately, decision-making on geo-targeting priorities was supposed to move to the Vermont System Planning Committee (VSPC), which VELCO was charged by the Board with initiating. Initially, “although the VSPC was formed and has been functioning, for all intents and purposes the selection process remained with the founding geotargeting utilities.” This may have been because many parties still regarded geo-targeting as an experiment.⁵² More recently, however, the VSPC has assumed the role it was intended to play and initiated a robust process to select targeted areas for future efforts.

Approximately one year into its delivery, one of the four initially targeted areas (Newport) was dropped from the geo-targeting program when the distribution utility determined

49 Massie et al and Navigant Consulting et al., “Process and Impact Evaluation of Efficiency Vermont’s 2007-2009 Geotargeting Program,” Final Report, Submitted to Vermont Department of Public Service, January 7, 2011, p. 103.

50 This is the forecasted growth in winter peak demand. The baseline peak demands for summer and winter were the same. Efficiency Vermont forecast that it could reduce summer peak by more than winter peak, however. That would make winter peak the more constraining variable.

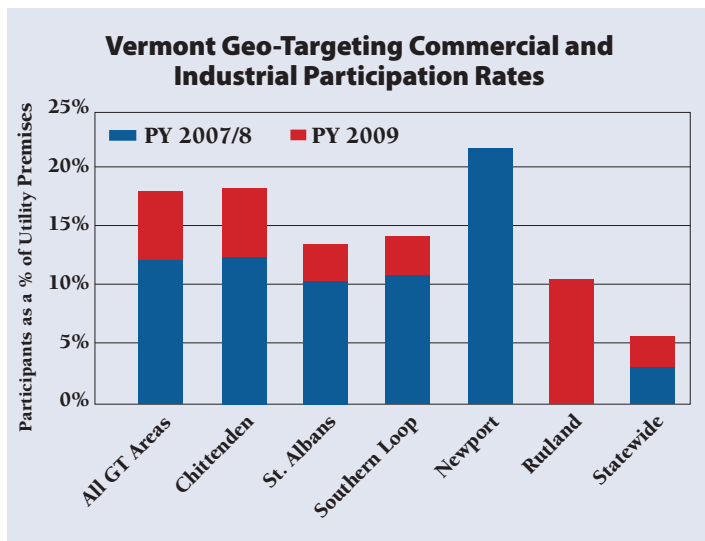
51 Navigant et al. (2011), p. 3.

52 Ibid.

that the substation whose rebuilding the program was intended to defer needed to be rebuilt for reasons other than load growth (i.e., “destabilization of the substation property due to river flooding”).⁵³ Independent of that decision, a new target area – Rutland – was added to the program beginning in 2009.

A recent evaluation of the geo-targeting program suggests that it has had some success, although not all results were as good as hoped or projected. To begin with, efficiency program participation was considerably higher in geo-targeted areas than in the rest of the state. For example, as Figure 8 shows, commercial and industrial customers in geo-targeted areas participated at a rate nearly four times as great as their counterparts in the rest of the state. For those areas that were in their third year of geo-targeted DSM in 2009, the participation rate multiplier (compared to the rest of the state) declined to 2 to 1. The multiplier for the newly added geo-targeted region (Rutland), however, was roughly the same 4 to 1 ratio experienced by the other regions in their first two years.⁵⁴ Savings per participant were also higher than in the statewide programs – 20% to 25% higher for commercial and industrial customers and 30% higher for residential customers. That increase appears to reflect success in achieving greater depth of lighting savings per participant rather than increased penetration of non-lighting efficiency measures.⁵⁵ The net result of those two factors was summer peak demand savings that were three to five times greater (depending on the region) in the first couple of years of the program than would have been achieved under the statewide programs.⁵⁶

Figure 8⁵⁷



All told, over the 2007 to 2009 time period, the program achieved summer peak demand reductions in the targeted areas of 10 MW – about 70% of its goal. Winter peak demand savings were more problematic, with the program achieving only 4.1 MW of reductions, or only about 40% of its goal. Nevertheless, analysis of loads on individual feeders in geo-targeted areas suggests that geo-targeting program impacts “are detectable at the system level” and that the magnitude of savings observed at the utility system level was consistent with those estimated through evaluation of customer savings.⁵⁸

Evaluation of the impacts of the observed peak demand reductions on the potential deferral of T&D investments has not yet been conducted. Central Vermont Public Service (the state’s largest utility), however, has observed that it “has not been required to schedule the deployment of additional system upgrades in Rutland, St. Albans and Southern Loop areas.” While it is difficult to know the extent to which that situation should be attributed to the geo-targeting of DSM, to changes in economic conditions (i.e., the recent economic recession), or to other factors, the Company has recommended to the Board that geo-targeting of DSM continue.⁵⁹

Central Maine Power

In June of 2010, the Maine Public Utilities Commission approved a settlement agreement reached by Central Maine Power (CMP) and a variety of other parties (including several public interest advocates) regarding a large transmission

53 Navigant et al. (2011), p. 26.

54 Navigant et al. (2011), pp. 85-87.

55 Navigant et al. (2011), pp. 89-91.

56 It is important to note that the statewide programs are already considered quite aggressive, achieving greater savings as a percent of sales than any state in the country in both 2007 (Eldridge, Maggie et al., *The 2009 State Energy Efficiency Scorecard*, ACEEE Report Number E097, October 2009) and 2008 (Molina, Maggie et al., *The 2010 State Energy Efficiency Scorecard*, ACEEE Report Number E107, October 2010).

57 Graphic courtesy of Navigant Consulting.

58 Navigant et al. (2011), p. 10.

59 Silver, Morris, Counsel for Central Vermont Public Service, letter to the Vermont Public Service Board regarding “EEU Demand Resources Plan – Track C, Geotargeting,” January 18, 2011.

system upgrade project (the Maine Power Reliability Project) that the utility had proposed.⁶⁰ The settlement supported construction of most elements of the upgrade, but identified two areas – the Mid-Coast region and the city of Portland – where pilot projects to test the efficacy of non-transmission alternatives would be launched.

As part of the settlement, CMP was required to conduct a needs assessment for the two regions and develop a proposal for using non-transmission alternatives in conjunction with one of the intervening parties – Grid Solar. In March 2011, CMP and Grid Solar filed a proposed plan for the Mid-Coast region. The plan looked at a couple of different scenarios, ultimately recommending an approach that would require 25 to 29 MW of distributed resources in the Camden-Rockland area and another 10 MW of distributed resources in the Boothbay region to fully obviate the need for a transmission upgrade. It also proposed to use an RFP process to identify and acquire the least cost mix of resources to meet this need. It further suggested the resources be acquired in phases, with the first RFP covering needs from 2012 through 2015 (10 MW in Camden-Rockland and 6 MW in Boothbay). Subsequent RFPs would be developed and issued “based on load growth in the Mid-coast area, on the performance of distributed resources under contract pursuant to prior RFP(s), and on changes to the physical electric transmission and distribution system circuits in the Mid-Coast area.”⁶¹

Under the proposal, any distributed resource would be eligible to respond to the RFP, including:

- Existing back-up generators (the plan identified 45 generators with a combined capacity of 25 MW in the region);
- New generators that could be acquired to provide both back-up capability to customers as well as distributed resources for the pilot;
- Demand response resources (as much as 15 MW were estimated to be in the region);
- Targeted energy efficiency (the plan estimating maximum achievable potential in the Mid-Coast region to be 15 MW, but suggested that 10 MW of that amount was already captured in CMP’s load forecast, leaving only 5 MW to potentially be acquired);
- Solar PV (the plan suggested that solar PV would not likely be competitive with other resources, but that it may be appropriate to set aside a portion of the RFP as a “solar carve out” to test the applicability of PV as

a transmission resource); and

- Storage (which was also estimated to be too expensive for initial rounds of procurement).

The plan noted that Vermont’s experience with geographically targeted efficiency programs suggested that efficiency resources would likely be “highly competitive with other distributed resources.” It also suggested that the Efficiency Maine Trust, which is responsible for and funded to implement statewide efficiency programs, could bid enhancements to its efficiency initiatives in the target region in response to the RFP. The plan left unaddressed, however, the question of how baseline levels of savings (from which additional savings from a more aggressive set of geographically targeted efforts would presumably be measured) would be established. It was also not clear whether the plan anticipated the possibility of other efficiency resource providers bidding in response to the RFP.⁶²

These issues have not yet been fully explored. In the summer of 2011 the Maine PUC held a Technical Conference on the plan. Among the topics discussed were the impacts of both the economic recession and new (more stringent) reliability standards issued by the North American Electric Reliability Council (NERC) on the forecast resource needs. CMP and Grid Solar are expected to examine these issues and file a new needs analysis and plan in late November 2011. A second Technical Conference is expected to follow in December 2011.⁶³

NV Energy

In 2008 NV Energy faced a situation in a relatively rural portion of its service territory, east of Carson City, in which growth in demand was going to need to be met by either running the locally situated but relatively expensive Fort Churchill generating station more frequently or constructing a 30-mile, 345-kVA transmission line and new substation

60 Maine Public Utilities Commission, Order Approving Stipulation, Docket No. 2008-255, June 10, 2010.

61 Central Maine Power and Grid Solar, Non-Transmission Alternative Pilot Plan and Smart Grid Proposal including Attachments 1-7, filed under Docket No. 2008-255 (Phase II), March 25, 2011.

62 Ibid.

63 Personal communication with Beth Nagursky, Environment Northeast, 11/16/11.

to bring less expensive power from the more efficient Tracy generating facility (situated further north, about 20 miles east of Reno) to the region. When the local county commission began expressing concerns about permitting construction of the substation, regulators instructed the Company to increase the intensity of its DSM efforts in the targeted region as an alternative to meeting the area's needs economically:

*"...the concentration of DSM energy efficiency measures in Carson City, Dayton, Carson Valley and South Tahoe has the potential to reduce the run time required for the Ft. Churchill generation units. The increased marketing costs and increased incentives and subsequent reduction in program energy savings required to attain an increased participation in the smaller market area are estimated to be more than offset by reduced fuel costs. Sierra Pacific, d.b.a. NV Energy, will make a reasonable effort within the approved DSM budget and programs to concentrate DSM activities in this area..."*⁶⁴

NV Energy pursued a variety of efforts to either focus its existing DSM programs more intensely on the Fort Churchill area and/or launch new initiatives. This included:⁶⁵

- **Non-Profit Agency Grants.** NV Energy gave priority to projects in the impacted area and marketed the program accordingly. In the end, 12 of the 35 applications it received were from the targeted area.
- **Energy Education.** NV Energy concentrated its education events in the region, ultimately holding 19 in 2009 – up from just two the previous year.
- **Low Income Weatherization.** NV Energy asked its implementation contractor to make a special effort to solicit program participation in the targeted area. Participation in the targeted area increased from just eight homes in 2008 to 57 in 2009.
- **ENERGY STAR Lighting and Appliances.** NV Energy concentrated marketing and outreach events in the Fort Churchill area, leading to an increase in participation of nearly 20% (although estimated savings did not increase due to changes in assumptions regarding average run times of CFLs).
- **Second Refrigerator Collection and Recycling.** NV Energy increased marketing efforts in the targeted region, in part through a targeted door-to-door campaign that also included distribution of nearly 100,000 CFLs to more than 16,000 homes. This resulted in increased participation in the refrigerator recycling program of nearly 15% in the targeted

region, as well as substantial lighting savings.

- **Energy Smart Schools.** NV Energy offered an "Energy Master Planning Service" to the Carson City and Douglas County School Districts, but both declined the service. The utility also launched a new initiative to distribute CFLs to school district employees.
- **Commercial Retrofit Incentive.** NV Energy renegotiated its contract with its program vendor to support increased marketing in the targeted area, increase financial incentives by 25% in the targeted area, and concentrate all direct install efforts in the target area. The result was a more than 260% increase in savings in the area.
- **Sure Bet Hotel Motel.** NV Energy increased marketing support and financial incentives for this program as well, but no increase in participation was realized.

Of these efforts, the second refrigerator collection and recycling program (primarily the CFL distributions) and the commercial retrofit program were together responsible for the vast majority of the increased DSM savings in the region.⁶⁶

At the same time as these efficiency efforts were launched, NV Energy's transmission staff began re-conductoring the existing 120-kVA line to the region to increase its carrying capacity. The economic recession also hit at the same time, dampening growth. As a result, the Company has not had to revisit the need for either the additional power line and substation or increasing the run time of the Fort Churchill generating station. The project has also facilitated the beginnings of "rich conversations" between demand resource planners and transmission planners within the Company.⁶⁷

64 Jarvis, Daniel et al., *Targeting Constrained Regions: A Case Study of the Fort Churchill Generating Area*, 2010 ACEEE Summer Study on Energy Efficiency in Buildings, Volume 5, pp. 178-189.

65 Sierra Pacific Power Company, 2010 Annual Demand Side Management Update Report, July 1, 2010, pp. 6-9.

66 Ibid, and Jarvis et al.

67 Personal communication with Larry Holmes, NV Energy, 11/9/11.

3. Lessons Learned

Although the actual implementation of efficiency as an alternative to T&D investments has not yet been what one might call “widespread,” there are enough examples in sufficiently diverse circumstances to draw initial conclusions.

Geographically Targeted Energy Efficiency Can Defer T&D Investments

A number of studies have suggested that aggressive, geographically targeted efficiency programs can meet T&D reliability objectives. More important, analyses of the actual deployment of efficiency as alternatives to T&D in several jurisdictions have concluded that supply-side investments were deferred for at least some period of time (e.g., Con Ed in New York City, Green Mountain Power’s Mad River Valley Project in Vermont, PG&E’s Delta Project in California, portions of PGE’s project in downtown Portland, Oregon).

Efficiency Can Be a Cost-Effective T&D Resource

There is less evidence regarding the cost-effectiveness of efficiency as an alternative to T&D upgrades. However, analysis of the most intensive and long-standing effort to defer T&D investments with efficiency programs – Con Ed’s experience in New York City – clearly concluded that the geographically targeted programs were very cost-effective. Indeed, the T&D benefits alone were greater than the costs of the programs. When other benefits (e.g., energy savings and system peak demand savings) are included in the analysis, the geographically targeted efficiency programs had a benefit-to-cost ratio of about 3 to 1.

The realization that energy efficiency provides a variety of electric system benefits is critically important, as that broad range of benefits can often render the pursuit of more intensive efficiency programs in localized areas a

“no regrets” strategy – at least from a purely economic perspective. Indeed, even though a determination of whether the recent Efficiency Vermont geo-targeting program has deferred T&D system upgrades has not yet been definitively made, evaluation of the program suggests it has been cost-effective – with a benefit cost-ratio of about 2 to 1 (under the Total Resource Cost Test) – even if no T&D investments are deferred.⁶⁸

This suggests that, in most cases, the most important concerns regarding the deployment of efficiency as a T&D resource will likely be efficiency savings forecast issues (i.e., particularly uncertainty about whether enough customers will install enough efficiency measures to actually avoid a reliability-driven investment) and possibly equity issues (i.e., concerns about customers in targeted areas getting greater access to and/or greater financial incentives from efficiency programs than those in other areas).

Stuff Happens! Unexpected Events Can Affect Benefits of Efficiency

It is worth noting that in several of the case studies examined for this report some or all of the T&D investment being considered for deferral ultimately ended up being constructed for reasons having nothing to do with the effectiveness of the deployment of efficiency resources. For example, part of PGE’s project in Portland, Oregon (to defer a transformer upgrade for one commercial building) ended when the conversion from gas to electric cooling for the building added too much load to be offset by demand-side measures. More recently in Vermont, one of the original areas targeted for locally intensive DSM programs (Newport) was removed from the program when the existing substation became destabilized due to flooding, necessitating an immediate supply-side investment. In each of those cases, it could be concluded that the investments in efficiency programs ultimately provided either no T&D

68 Navigant et al. (2011), p. 100. Similar analyses for other case studies examined are not available.

benefit or very little benefit.

It is important to recognize that forecasting uncertainty works in both directions, however. In several of the examples discussed in this paper it appears as if efficiency investments not only permitted deferral of a T&D investment, but permanently eliminated the need for the investment. This happened either because the efficiency savings realized were greater than forecast (e.g., in one of the commercial buildings treated by PGE's program in Portland, Oregon) or because the efficiency investments bought enough time for more fundamental changes in demand to take hold (e.g., Con Ed's conclusion that \$85 million in T&D investments that it otherwise would have made may now never be needed).

The bottom line is that there are a variety of risks associated with forecasting of T&D system needs that can affect the potential benefits of using efficiency to defer T&D system investments. These include:

- The reliability risk of under-forecasting demand growth;
- The economic risk of over-building the T&D system due to over-forecasting of demand growth; and
- Both the reliability risk (if it takes longer than expected) and the economic risk (if it ends up costing more)⁶⁹ of siting new poles and wires.

It could be argued that efficiency programs are more likely to mitigate than to exacerbate these risks. To begin with, many efficiency programs are "load-following." For example, efficiency programs designed to promote efficiency in the construction of new buildings will generally have lower participation and savings when construction slows (i.e., when savings are least needed) and higher participation and savings when construction accelerates (i.e., when savings are most needed). Similarly, efficiency programs often have a harder time convincing home-owners and businesses to participate – and therefore have a harder time meeting savings goals – during difficult economic times (i.e., when loads are not growing fast and therefore concerns about exceeding T&D system capacity are lower); they often have an easier time recruiting

participants and exceeding savings goals during good economic times (i.e., when loads are naturally growing faster, imposing greater strains on T&D systems). Indeed, the reality that Efficiency Vermont launched its geo-targeting program just before the recent deep economic recession was probably a contributing factor to their failure to meet initial savings goals. On the other hand, as Central Vermont Public Service has implied, the recession is likely part of the reason the Company has not had to deploy additional system upgrades in its portion of the targeted areas.

Sufficient Lead Time is Critical

It usually takes time to generate enough savings from energy efficiency programs to defer T&D system upgrades. The programs must be planned, developed, and then marketed to consumers before any savings are realized. Reaching a large segment of the eligible market requires on-going marketing and business development efforts. Initial strategies may not be as successful as anticipated, so programs are more likely to be successful if there is time to refine them in response to market feedback. As discussed above, PG&E's Delta Project did not have that luxury and, as a result, ended up falling short of overall savings goals and spending more per unit of savings than originally planned. Even though a very cost-effective strategy was identified part of the way through the project, there was not enough time for it to gain enough traction to offset the less effective results of some of the initially pursued elements. Sufficient lead time may also better enable efficiency program managers to demonstrate to T&D system planners and engineers that efficiency strategies are affecting localized peak loads. Parts of PGE's downtown Portland project ultimately failed to defer T&D upgrades not because the efficiency savings were inadequate, but rather because T&D planners and engineers did not have sufficient confidence that the savings would be achieved and be reliable and persistent.

To be sure, the amount of lead time necessary to enable efficiency programs to defer T&D investments will vary

69 For example, in July 2005, about six months after its proposal to construct a major new transmission line and make other related improvements was approved by the Vermont Board of Public Utilities, VELCO filed with the Board a revised cost estimate that was nearly double the estimate it had made two to three years earlier and presented during the course of the hearing on the project. In order of importance, the increase was attributed to a high rate of inflation for the materials and services needed, regulatory conditions of the approval, and better (higher) estimates of the materials it would need (State of Vermont Public Service Board, Order on Remand RE: Reopening Proceedings, Docket 6860, 9/23/2005).

from project to project. In general, shorter lead times will be needed when the number of customers that must be served by efficiency programs in order to generate sufficient savings is small. One key to ensuring there is sufficient lead time is to conduct more systematic planning for meeting T&D needs, including long-term forecasting of potential needs, integrating the forecasting of such needs with forecasting of savings from system-wide efficiency initiatives, and including analysis of potential additional, localized efficiency programs in early stages of assessment of options for meeting T&D needs.

Smaller is Easier

In general, the smaller the area being addressed, the easier it is to consider efficiency and other non-wires alternatives to T&D investments. Smaller areas mean that efficiency savings need to be acquired from fewer customers. That in turn means that it is often easier to characterize the opportunity for efficiency investments accurately. It also means that shorter lead times will be needed. For example, deferring a transformer upgrade on a single large commercial building may not require much time if one need just convince a single owner of the building to make an efficiency investment. Alternatively, deferring distribution substations or transmission lines serving many thousands of customers will usually take longer unless there are just a few large customers who, if served by an efficiency program, could impact localized peak demands significantly.

Distribution is Easier than Transmission

Deferring distribution system investments is generally easier than deferring transmission investments because the non-wires solutions will generally be smaller in scope (see discussion above). In addition, distribution system planning is generally less technically complex, involves fewer parties, does not involve regional ISOs/RTOs, and

does not involve regional cost-allocation frameworks that often bias investments in favor of “poles and wires” solutions.

Cross-Discipline Communication is Critical

This may seem self-evident, but it is critical nonetheless. T&D planners and engineers are often skeptical of the potential for end-use efficiency to reliably substitute for poles, wires, and other T&D “hardware.” They worry that customers themselves are unreliable. Similarly, staff responsible for administration of programs that promote efficiency, load control, distributed generation, or other demand resources typically do not fully understand the complexities of the reliability issues faced by T&D system planners. Both need to better understand the needs and capabilities of the other.

It can take time to develop the relationships and confidence necessary for efficiency program implementers and their evaluated results and T&D system engineers to work together effectively. Those relationships and that trust must be developed, however, if efficiency programs are to be as successful as possible in deferring T&D investments.

Upper management can be very important in setting expectations that such communication and cross-discipline learning take place within a utility. It is much more difficult to institutionalize such communication when transmission planning has regional elements and implications that necessarily involve the ISO/RTO.

Integrate Efficiency with Other Distributed Resources

Although efficiency programs can sometimes be sufficient to defer T&D investments, other times they will not be. They can, however, be married with promotion of demand-response and distributed generation initiatives to meet the same objective.

4. Recommendations

Though several pilot projects in the past and some more substantial projects today appear to have demonstrated that efficiency programs can be a cost-effective T&D resource, such efforts remain uncommon. Put another way, the potential economic and other benefits of using geographically targeted efficiency programs as a T&D resource are largely being ignored today. Some fundamental policy changes are required if that is to change. In this concluding section of the paper we discuss the policies that should be explored if efficiency's potential is to be realized.

Require Least-Cost T&D Planning

As noted above, both economic incentives in many states and system planning culture have made “poles and wires” (or T&D hardware) the default solution to T&D-related reliability issues almost everywhere. Experience to date suggests that the only way that will change is if T&D planners are required by legislators or regulators to analyze alternatives and choose the least-cost option.⁷⁰

Over the past decade, several jurisdictions have institutionalized such processes. Several notable examples are summarized below. There are certainly costs to such processes – both for the utilities doing the planning and for regulatory oversight. Feedback from several jurisdictions, however, suggests that the process evolves – as it is tested and refined – to one in which the burden on the utility is not only manageable but also much more than offset by cost savings. Once that point is reached and utilities are meeting a high standard in their work, the burden on regulators should be quite modest.

Rhode Island

In 2006, Rhode Island adopted a “System Reliability Procurement” policy that requires utilities to submit system reliability procurement plans every three years. Guidelines detailing what to include in those plans were adopted more recently (see Appendix A). Those guidelines make clear that plans must consider non-wires alternatives – including energy efficiency, distributed generation, and demand response – whenever the T&D need:

- Is not based on an asset condition;
- Will likely cost more than \$1 million to address;
- Would require no more than a 20% reduction in peak load to defer; and
- Would not require investment in a “wires solution” to begin for at least 36 months.

For such cases, the plans must include analysis of financial impacts, risks, the potential for synergistic benefits, and other aspects of both wires and non-wires alternatives.⁷¹

Vermont

Vermont has long imposed an integrated resource planning requirement on its utilities. However, the passage of Act 61 in 2005 – which reinforced those requirements by specifying minimum 10-year planning horizons, required the plans to be filed at least every three years, and required public meetings (in areas close to potential T&D upgrades) at which plans are presented (see Appendix B for legislative language) – has begun to make the process more rigorous. Indeed, VELCO and Efficiency Vermont are now working together to regularly reconcile and integrate

70 Note that this works only to the extent that states actually control the planning process. Although they do for distribution system investments, responsibility for transmission planning decisions is shared with regional ISOs/RTOs. That has lessened states ability to effectively impose least-cost planning requirements. Recent FERC Order 1000, which requires ISOs/RTOs to consider state policies in planning decisions, may give states more influence in the future.

71 Rhode Island Standards for Least Cost Procurement and System Reliability Planning.

their respective forecasts of baseline demand and efficiency program savings.⁷²

Bonneville Power Administration

Although not required by legislation or regulation, in 2002 BPA launched a Non-Wires Solutions (NWS) initiative in which it committed to investigating “least-cost solutions that may result in deferring potential transmission reinforcement projects.”⁷³ A year later, BPA formed a Non-Wires Solutions Round Table composed of key stakeholder groups in the region to assist it in these endeavors.⁷⁴ It then developed a formal process by which non-wires solutions – including energy efficiency, demand response, load control, and distributed generation – would be routinely assessed. To begin with, transmission planners annually assess potential transmission needs over the next 10 to 15 years. That assessment is tied to the Western Electricity Coordinating Council’s power flow and planning framework.⁷⁵ Once a transmission need is identified by BPA’s Transmission Business Line, an initial “screening” is conducted to determine whether the project is a candidate for possible non-wires solutions. A project qualifies for an analysis of non-wires solutions if it meets three criteria:

1. The transmission project cost is estimated to be at least \$5 million;
2. The project need is driven by load growth; and
3. The project need is at least eight years out.⁷⁶

If these criteria are met, a high level economic assessment is conducted using a simplified spreadsheet template that has been developed specifically for this purpose. The analysis includes all of the potential benefits of non-wires solutions. Estimates of energy savings and capacity savings benefits are based on results of the Northwest Power Planning Council’s integrated resource plans (conducted every five years). Avoided transmission costs are estimated for the specific project under consideration. If the analysis suggests both that there are sufficient non-wires resources to defer a project and that the deferral could be cost-effective, a detailed feasibility study is conducted. If that study confirms that the non-wires solution is indeed feasible, then the benefits, costs, and risks of both traditional transmission and non-wires solutions are compared to decide which strategies to pursue. This process is summarized in Figure 9. BPA went through this process on four different occasions between 2002 and 2006. In all of those cases a determination was made that the traditional transmission strategy was needed.

BPA recently reconvened its Non-Wires Round Table to consider new regional transmission needs in this same framework. Three potential non-wires projects are currently undergoing intensive analysis and discussion. Energy efficiency is an element of the non-wires solution being considered for both the I-5 corridor in Oregon and the Hooper Springs area in Idaho. Efficiency plays a more central role in a third potential project that has not yet been made public.⁷⁷

72 This has not been without its challenges, because assumptions about such things as treatment of baseline efficiency conditions, the level of “naturally occurring” efficiency (related to free rider assumptions in efficiency savings forecasts), and other key issues are sometimes different or inconsistent (see Enterline, Shawn and Eric Fox, *Integrating Energy Efficiency into Utility Load Forecasts*, in Proceedings of the 2010 ACEEE Summer Study on Energy Efficiency in Buildings, Volume 5, pp. 86-96).

73 GDS Associates, “Process Evaluation of the Non-Wires Solution Initiative,” prepared for BPA, June 8, 2007.

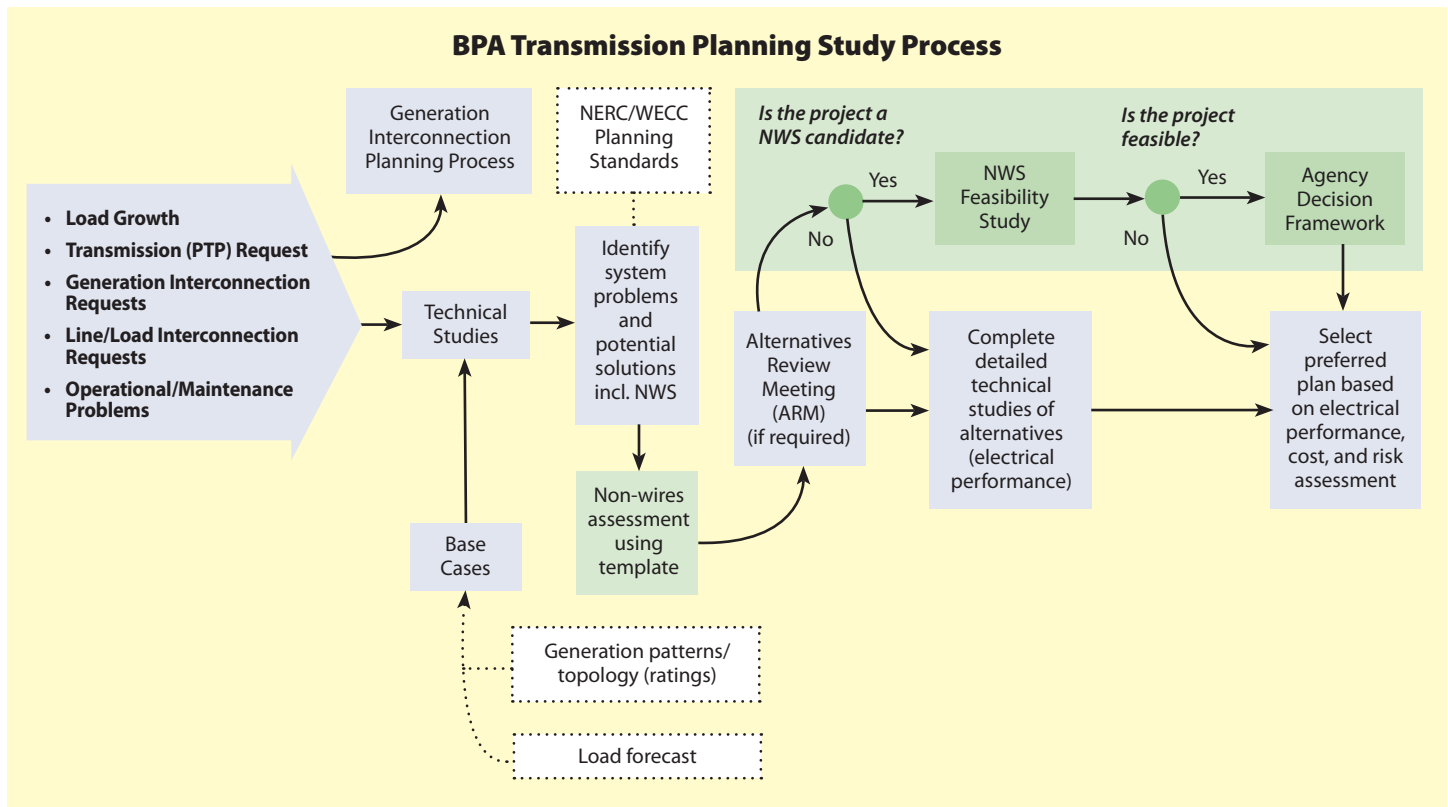
74 Although the Round Table has been organized to function collaboratively, its input is purely advisory. BPA makes all final decisions on how to address transmission needs.

75 Personal communication with Mike Weedall, Ottie Nabors, and Josh Binus, Bonneville Power Administration, 4/27/11.

76 Nabors, Ottie, “Non-Wires Alternatives Screening Process & Evaluation,” presentation at the Non-Wires Round Table, April 15, 2011.

77 Personal communication with Mike Weedall, BPA, 12/23/11.

Figure 9⁷⁸



Require Consideration of Integrated Solutions

Efficiency is one of several types of distributed resources – demand response, load control, and distributed generation are other notable examples – that can help to cost-effectively defer T&D investments. Indeed, there may be important synergies in combining deployment of efficiency and other distributed resources (e.g., efficiency and demand response and potentially even distributed generation can often be “sold” to customers more effectively if sold together). Any requirement for least-cost planning thus should make clear that all options, including different combinations of distributed resources, should be considered.

The ability for states to require either least-cost planning or consideration of integrated solutions is clear with respect to distribution system planning, but more complicated for transmission planning because of transmission’s regional implications and the involvement of regional ISOs/RTOs. Nevertheless, states have influenced transmission planning, and the recent FERC Order 1000, which requires ISOs/RTOs to consider state policies in their planning decisions, may give them more clout in the future.

Institutionalize a Long-Term Planning Horizon

The longer the lead time, the more likely it will be that efficiency (or other distributed resources) could cost-effectively defer traditional T&D investments. This suggests it is critical that assessments of T&D needs are both long-term and conducted on a regular basis. As noted above, although they are all still refining their processes, all of the jurisdictions that are currently seriously considering non-wires alternatives to T&D investments are routinely forecasting T&D needs at least 10 years into the future. Con Ed develops a 10-year plan for T&D needs. Vermont requires an annual plan that looks out a minimum of 10 years. VELCO, Vermont’s transmission utility, has chosen to forecast 20 years out. Similarly BPA looks at transmission needs 10 to 15 years into the future.

78 Graphic from Nabors, Ottie, “Non-Wires Alternatives Screening Process & Evaluation,” presentation at the Non-Wires Round Table, April 15, 2011.

“Level the Playing Field” in Payment for Wires and Non-Wires Alternatives

One of the biggest barriers to serious consideration of efficiency (and other demand resources) as alternatives to T&D investments is the unequal treatment of the costs of wires and non-wires solutions. For example, nearly 90% of the nearly \$290 million cost of VELCO’s Northwest Reliability Project in Vermont has been deemed by the New England ISO to be eligible for Pooled Transmission Facility (PTF) treatment – or spread across the New England region.⁷⁹ Because Vermont represents a relatively small portion of the total regional power pool load, its ratepayers pay only about 5% of PTF costs. Its rate-payers thus will ultimately bear less than 20% of total project costs. The ISO does not give PTF treatment to non-wires solutions. As a result, if the state had pursued a non-wires solution to its transmission reliability needs, it would have borne 100% of the costs of the project.

Such policies represent enormous disincentives to pursue non-wires solutions – even if they are less expensive than traditional transmission investments. Unbalanced treatment of wires and non-wires solutions needs to be addressed if least-cost solutions are to be routinely and seriously considered.

Collect More Data on Efficiency’s Impacts

In much of the country, relatively little end-use metered data on the hourly and seasonal impacts of efficiency resources has been collected and made public over the past two decades. As a result, many jurisdictions now rely on very old end-use metering studies when developing hourly load shapes for efficiency measures. Such load shapes are essential to estimating the impacts of efficiency resources on localized transmission or distribution system peaks (peak hours can vary considerably from one distribution

element to another, even within the same utility service territory). Having more data of this kind should make it easier to address concerns of T&D system planners.

It is worth noting that the New England region may be ahead of much of the rest of the country in this regard, in part because the region’s forward capacity market requires efficiency resource providers to use studies that are less than five years old to document achievement of the system peak demand savings that are bidding into the market. That requirement has resulted in a number of different end-use metering studies that have not only documented savings at the time of the regional system peak, but also at all other hours of the day. In many cases, the studies have been undertaken at the regional level – with all states sharing the cost – as a way to make them affordable.

Start with Pilot Projects

Virtually every jurisdiction that genuinely considered efficiency as a potential cost-effective alternative to T&D investments started with pilot projects. Much has been learned from those pilots. The pilots also offered important venues for facilitating the mutual education of system engineers and efficiency program managers. Experience to date suggests that a pilot project or two will not bridge the cultural chasms between these two groups. They can be important steps in that process, however.

Leverage “Smart Grid” Investments

A number of utilities have recently made or are about to make significant investments in advanced metering, customer feedback mechanisms, and other “smart grid” features. Customer and end-use data collected through such systems may enable better assessments of the potential for efficiency to serve as a T&D resource in general, and perhaps more important, in specific geographic areas.

79 ISO New England, “Summary of ISO-NE Reviewed TCA Applications under Schedule 12C of the Tariff” – Status as of 2/18/2011 (http://www.iso-ne.com/trans/pp_tca/status/tca_application_status.pdf)

Appendix A

Rhode Island Standards for Least Cost Procurement and System Reliability Planning – Excerpt on Distributed Resources in Relation to T&D Investment

Chapter 2 - System Reliability Procurement

Section 2.1 Distributed/Targeted Resources in Relation to T&D Investment

- A. The Utility System Reliability Procurement Plan (“The SRP Plan”) to be submitted for the Commission’s review and approval on September 1, 2011 and triennially thereafter on September 1, shall propose general planning principles and potential areas of focus that incorporate non-wires alternatives (NWA) into the Company’s distribution planning process for the three years of implementation beginning January 1 of the following year.
- B. Non-Wires Alternatives (NWA) may include but are not limited to:
- Least Cost Procurement energy efficiency baseline services
 - Peak demand and geographically-focused supplemental energy efficiency strategies
 - Distributed generation generally, including combined heat and power and renewable energy resources (predominately wind and solar, but not constrained)⁸⁰
 - Demand response
 - Direct load control
 - Energy storage
 - Alternative tariff options
- C. Identified transmission or distribution (T&D) projects with a proposed solution that meet the following criteria will be evaluated for potential NWA that could reduce, avoid or defer the T&D wires solution over an identified time period.
- The need is not based on asset condition;
 - The wires solution, based on engineering judgment, will likely cost more than \$1 million;
 - If load reductions are necessary, then they are expected to be less than 20 percent of the relevant peak load in the area of the defined need;
- d. Start of wires alternative is at least 36 months in the future; and
A more detailed version of these criteria may be developed by the distribution utility with input from the Council and other stakeholders.
- D. Feasible NWA will be compared to traditional solutions based on the following:
- Ability to meet the identified system needs
 - Anticipated reliability of the alternatives
 - Risks associated with each alternative (licensing and permitting, significant risks of stranded investment, sensitivity of alternatives to differences in load forecasts, emergence of new technologies)
 - Potential for synergy savings based on alternatives that address multiple needs
 - Operational complexity and flexibility
 - Implementation issues
 - Customer impacts
 - Other relevant factors
- E. Financial analyses of the preferred solution(s) and alternatives will be conducted to the extent feasible. The selection of analytical model(s) will be subject to Public Utilities Commission review and approval. Alternatives may include the determination of deferred investment savings from NWA through use of net present value of the deferred revenue requirement analysis or the net present value of the alternatives according to the Total Resource Cost Test (TRC). The selection of an NWA shall be informed by the considerations approved by the Public Utilities Commission which may include, but not be limited to, those issues enumerated in (D), the deferred revenue requirement savings and an evaluation of costs and benefits according to the TRC. Consideration of the net present value of resulting revenue

⁸⁰ In order to meet the statute’s environmental goals, generation technologies must comply with all applicable general permitting regulations for smaller-scale electric generation facilities.

requirements may be used to inform the structure of utility cost recovery of NWA investments and to assess anticipated ratepayer rate and bill impacts.

F. For each need where an NWA is the preferred solution, the distribution utility will develop an implementation plan that includes the following:

- a. Characterization of the need
 - i. Identification of the load-based need, including the magnitude of the need, the shape of the load curve, the projected year and season by which a solution is needed, and other relevant timing issues
 - ii. Identification and description of the T&D investment and how it would change as a result of the NWA
 - iii. Identification of the level and duration of peak demand savings and/or other operational functionality required to avoid the need for the upgrade
 - iv. Description of the sensitivity of the need and T&D investment to load forecast assumptions
- b. Description of the business as usual upgrade in terms of technology, net present value, costs (capital and O&M), revenue requirements, and schedule for the upgrade
- c. Description of the NWA solution, including description of the NWA solution(s) in terms of technology, reliability, cost (capital and O&M), net present value, and timing
- d. Development of NWA investment scenario(s)
 - i. Specific NWA characteristics
 - ii. Development of an implementation plan, including ownership and contracting considerations or options
 - iii. Development of a detailed cost estimate (capital and O&M) and implementation schedule

G. Funding Plan

The Utility shall develop a funding plan based on the following sources to meet the budget requirement of the system reliability procurement plan. The Utility may propose to utilize funding from the following sources for system reliability investments:

- i. Capital funds that would otherwise be applied towards traditional wires based alternatives

- ii. Existing Utility EE investments as required in Section I of these Standards and the resulting Annual Plans
- iii. Additional energy efficiency funds to the extent that the NWA can be shown to pass the TRC test with a benefit to cost ratio of greater than 1.0 and such additional funding is approved
- iv. Utility operating expenses to the extent that recovery of such funding is explicitly allowed
- v. Identification of significant customer contribution or third party investment that may be part of an NWA based on benefits that are expected to accrue to the specific customers or third parties
- vi. Any other funding that might be required and available to complete the NWA

H. Annual SRP Plan reports should be submitted on November 1. Such reports will include but are not limited to:

- a. A summary of projects where NWA were considered;
- b. Identification of projects where NWA were selected as a preferred solution; and a summary of the comparative analysis following the criteria outlined in sections (D) and (E) above;
- c. Implementation plan for the selected NWA projects;
- d. Funding plan for the selected NWA projects;
- e. Recommendations on pilot distribution and transmission project alternatives for which it will utilize selected NWA reliability and capacity strategies. These proposed pilot projects will be used to inform or revise the system reliability procurement process in subsequent plans;
- f. Status of any previously selected and approved projects and pilots;
- g. Identification of any methodological or analytical tools to be developed in the year;
- h. Total SRP Plan budget, including administrative and evaluation costs.

I. The Annual SRP Plan will be reviewed and funding approved by the Commission prior to implementation.

Appendix B

Excerpts from Vermont's Act 61

Sec. 8. Advocacy For Regional Electricity Reliability Policy

It shall be the policy of the state of Vermont, in negotiations and policy-making at the New England Independent System Operator, in proceedings before the Federal Energy Regulatory Commission, and in all other relevant venues, to support an efficient reliability policy, as follows:

- (1) When cost recovery is sought through region-wide regulated rates or uplift tariffs for power system reliability improvements, all available resources – transmission, strategic generation, targeted energy efficiency, and demand response resources – should be treated comparably in analysis, planning, and access to funding.
- (2) A principal criterion for approving and selecting a solution should be whether it is the least-cost solution to a system need on a total cost basis.
- (3) Ratepayers should not be required to pay for system upgrades in other states that do not meet these least-cost and resource-neutral standards.
- (4) For reliability-related projects in Vermont, subject to the review of the public service board, regional financial support should be sought and made available for transmission and for distributed resource alternatives to transmission on a resource-neutral basis.
- (5) The public service department, public service board, and attorney general shall advocate for these policies in negotiations and appropriate proceedings before the New England Independent System Operator, the New England Regional Transmission Operator, the Federal Energy Regulatory Commission, and all other appropriate regional and national forums. This subdivision shall not be construed to compel litigation or to preclude settlements that represent a reasonable advance to these policies.
- (6) In addressing reliability problems for the state's electric system, Vermont retail electricity providers and transmission companies shall advocate for regional cost support for the least cost solution with equal consideration and treatment of all available resources, including transmission, strategic distributed generation, targeted energy efficiency, and demand response resources on a total cost basis. This subdivision shall not be construed to compel litigation or to preclude settlements that represent a reasonable advance to these policies.

TRANSMISSION AND DISTRIBUTION PLANNING

Sec. 9. 30 V.S.A. § 218c is amended to read:

§ 218C. Least Cost Integrated Planning

- (d)(1) Least cost transmission services shall be provided in accordance with this subsection. Not later than July 1, 2006, any electric company that does not have a designated retail service territory and that owns or operates electric transmission facilities within the state of Vermont, in conjunction with any other electric companies that own or operate these facilities, jointly shall prepare and file with the department of public service and the public service board a transmission system plan that looks forward for a period of at least ten years. A copy of the plan shall be filed with each of the following: the house committees on commerce and on natural resources and energy and the senate committees on finance and on natural resources and energy. The objective of the plan shall be to identify the potential need for transmission system improvements as early as possible, in order to allow sufficient time to plan and implement more cost-effective non-transmission alternatives to meet reliability needs, wherever feasible. The plan shall:
 - (A) identify existing and potential transmission system reliability deficiencies by location within Vermont;
 - (B) estimate the date, and identify the local or regional load levels and other likely system conditions at which these reliability deficiencies, in the absence of further action, would likely occur;
 - (C) describe the likely manner of resolving the identified deficiencies through transmission system improvements;
 - (D) estimate the likely costs of these improvements;
 - (E) identify potential obstacles to the realization of these improvements; and
 - (F) identify the demand or supply parameters that generation, demand response, energy efficiency or other non-transmission strategies would need to address to resolve the reliability deficiencies identified.
- (2) Prior to the adoption of any transmission system plan, a utility preparing a plan shall host at least two public meetings at which it shall present a draft of the plan and facilitate a public discussion to identify and evaluate non-transmission alternatives. The meetings shall be at separate locations within

the state, in proximity to the transmission facilities involved or as otherwise required by the board, and each shall be noticed by at least two advertisements, each occurring between one and three weeks prior to the meetings, in newspapers having general circulation within the state and within the municipalities in which the meetings are to be held. Copies of the notices shall be provided to the public service board, the department of public service, any entity appointed by the public service board pursuant to subdivision 209(d)(2) of this title, the agency of natural resources, the division for historic preservation, the department of health, the scenery preservation council, the agency of transportation, the attorney general, the chair of each regional planning commission, each retail electricity provider within the state, and any public interest group that requests, or has made a standing request for, a copy of the notice. A verbatim transcript of the meetings shall be prepared by the utility preparing the plan, shall be filed with the public service board and the department of public service, and shall be provided at cost to any person requesting it. The plan shall contain a discussion of the principal contentions made at the meetings by members of the public, by any state agency, and by any utility.

(3) Prior to the issuance of the transmission plan or any revision of the plan, the utility preparing the plan shall offer to meet with each retail electricity provider within the state, with any entity appointed by the public service board pursuant to subdivision 209(d)(2) of this title, and with the department of public service, for the purpose of exchanging information that may be relevant to the development of the plan.

(4)(A) A transmission system plan shall be revised:

- (i) within nine months of a request to do so made by either the public service board or the department of public service; and
- (ii) in any case, at intervals of not more than three years.

(B) If more than 18 months shall have elapsed between the adoption of any version of the plan and the next revision of the plan, or since the last public hearing to address

a proposed revision of the plan and facilitate a public discussion that identifies and evaluates nontransmission alternatives, the utility preparing the plan, prior to issuing the next revision, shall host public meetings as provided in subdivision (2) of this subsection, and the revision shall contain a discussion of the principal contentions made at the meetings by members of the public, by any state agency, and by any retail electricity provider.

(5) On the basis of information contained in a transmission system plan, obtained through meetings held pursuant to subdivision (2) of this subsection, or obtained otherwise, the public service board and the department of public service shall use their powers under this title to encourage and facilitate the resolution of reliability deficiencies through nontransmission alternatives, where those alternatives would better serve the public good. The public service board, upon such notice and hearings as are otherwise required under this title, may enter such orders as it deems necessary to encourage, facilitate or require the resolution of reliability deficiencies in a manner that it determines will best promote the public good.

(6) The retail electricity providers in affected areas shall incorporate the most recently filed transmission plan in their individual least cost integrated planning processes, and shall cooperate as necessary to develop and implement joint least cost solutions to address the reliability deficiencies identified in the transmission plan.

(7) Before the department of public service takes a position before the board concerning the construction of new transmission or a transmission upgrade with significant land use ramifications, the department shall hold one or more public meetings with the legislative bodies or their designees of each town, village, or city that the transmission lines cross, and shall engage in a discussion with the members of those bodies or their designees and the interested public as to the department's role as public advocate.

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Other recent RAP publications on energy efficiency include the following:

Residential Efficiency Retrofits: A Roadmap for the Future

Roughly half of all efficiency and/or carbon emission reduction in North American and European buildings can be achieved through retrofit improvements to existing homes. In this publication, RAP offers a roadmap to help policymakers and practitioners design and implement a comprehensive residential retrofit strategy. We present eight principles for success based on two decades of international experience, designed to achieve the level of energy savings that will be needed to address the challenge of climate change.

The Executive Summary of this report is available separately in English and German at: <http://raponline.org/document/download/id/4424>.

The full report is available at: <http://www.raponline.org/document/download/id/918>

Prices and Policies: Carbon Caps and Efficiency Programmes for Europe's Low-Carbon Future

This paper was presented at the 2011 ECEEE Summer Study.

With the adoption of the Climate and Energy Package in 2008, European decision-makers created an integrated suite of policies to reduce carbon emissions, increase renewable energy production, and advance energy savings. As the EU ETS moves to carbon auctioning, decision-makers must continue to link carbon prices with other policy tools to meet Europe's adopted carbon and sustainable development goals. This paper demonstrates how energy efficiency (EE) policies can help meet ETS goals at lower cost, creating space to tighten carbon caps, and/or reduce the cost of protecting high-emitting industries and new Member States. Smart "complementary policies" can directly link ETS and EE strategies, especially by using auction revenue for EE programmes. Complementary policies are

also needed to support low-carbon power markets, grid expansion, and renewable power investment across Europe.

The full paper is available at: <http://www.raponline.org/document/download/id/931>

Who Should Deliver Ratepayer Funded Energy Efficiency? A 2011 Update

This report describes policy options and approaches for administering ratepayer-funded electric energy efficiency programs in US states. It reviews how states have administered energy efficiency programs to learn what lessons their experience offers, and describes the most important factors states should consider with different administrative models. State legislators and utility regulators will find this report useful as they consider ways for energy efficiency administration to be more effective, both in states that are considering the question for the first time, and in more experienced states that are implementing significant increases in their savings goals. RAP's first version of this report was written in 2003.

The full report is available at: <http://www.raponline.org/document/download/id/4707>

Valuing the Contribution of Energy Efficiency to Avoided Marginal Line Losses and Reserve Requirements

While utilities and their regulators are familiar with the energy savings that energy efficiency measures can provide, they may not be aware of how these same measures also provide very valuable peak capacity benefits in the form of marginal reductions to line losses that are often overlooked in the program design and measure screening. This paper is the first of two that the Regulatory Assistance Project is publishing on the relationship between energy efficiency and avoiding line losses.

The full report is available at: <http://www.raponline.org/document/download/id/4537>

Achieving Energy Efficiency: A Global Best Practices Guide on Government Policies

This best practices guide provides a summary overview of the most effective policy mechanisms that regional, national, state or local governments at the executive, legislative or regulatory level can adopt to achieve significant energy efficiency in buildings, processes and equipment used in the residential, commercial, industrial, public and institutional sectors. By policy mechanism, we mean specific laws, regulations, processes and implementation strategies that foster the development and use of products and services which require less energy input to deliver the same or more productivity and output. Our focus is on how government policies can accelerate and increase efficiency investments to achieve additional savings. We do not address best practices in the design or delivery of efficiency programs that would flow from these policies. Nor do we address tariff structures or energy pricing and financing tools that can be employed to help end users invest in efficiency.

The full report is available at: <http://www.raonline.org/document/download/id/4781>

Regulatory Mechanisms to Enable Energy Provider Delivered Energy Efficiency

The Regulatory Mechanisms to Enable Energy Provider Delivered Energy Efficiency paper identifies varied, but complementary, government regulatory mechanisms utilized worldwide to mobilize the resources of energy providers to implement investments in energy. The paper identifies and describes twelve types of regulatory mechanisms that governments use effectively to: mobilize energy provider investments directly; facilitate investments in demand-side resources; or implement policies and programs that underpin important elements of successful investment programs. The paper also explains how each regulatory mechanism functions in different market settings to mobilize resources or enable effective programs, identifies key issues that ensure successful implementation, and then outlines an example of how at least one jurisdiction has achieved successful implementation of the mechanism.

The full report is available at: <http://www.raonline.org/document/download/id/4872>

*Other documents on energy efficiency and other topics are available on
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Acronym Glossary

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|------------------|--|-----------------|---|
| ACEEE | American Council for an Energy Efficient Economy | ISO | Independent System Operator |
| AMI | Advanced Metering Infrastructure | NERC | North American Electric Reliability Council |
| BPA | Bonneville Power Administration | NWS | Non-Wires Solutions |
| C & I | Commercial and Industrial | PGE | Portland General Electric |
| CFLs | Compact Fluorescent Light Bulbs | PG&E | Pacific Gas and Electric |
| CMP | Central Maine Power | PTF | Pooled Transmission Facility |
| Con Ed | Consolidated Edison | PTP | Point-to-point |
| DR | Demand Response | RTO | Regional Transmission Organization |
| DSM | Demand-Side Management | SPWG | State Program Working Group |
| EEI | Edison Electric Institute | SRP | System Reliability Procurement |
| EPRI | Electric Power Research Institute | T&D | Transmission and Distribution |
| ESCO | Energy Service Company | TRC | Total Resource Cost |
| FCM | Forward Capacity Market | VELCO | Vermont Electric Power Company |
| FERC | Federal Energy Regulatory Commission | VSPC | Vermont System Planning Committee |
| GMP | Green Mountain Power | WECC | Western Electricity Coordinating Council |



The Regulatory Assistance Project (RAP) is a global, non-profit team of experts focused on the long-term economic and environmental sustainability of the power and natural gas sectors. We provide technical and policy assistance on regulatory and market policies that promote economic efficiency, environmental protection, system reliability and the fair allocation of system benefits among consumers. We have worked extensively in the US since 1992 and in China since 1999. We added programs and offices in the European Union in 2009 and plan to offer similar services in India in the near future. Visit our website at www.raponline.org to learn more about our work.



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