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FLORIDA PUBLIC SERVICE COMMISSION
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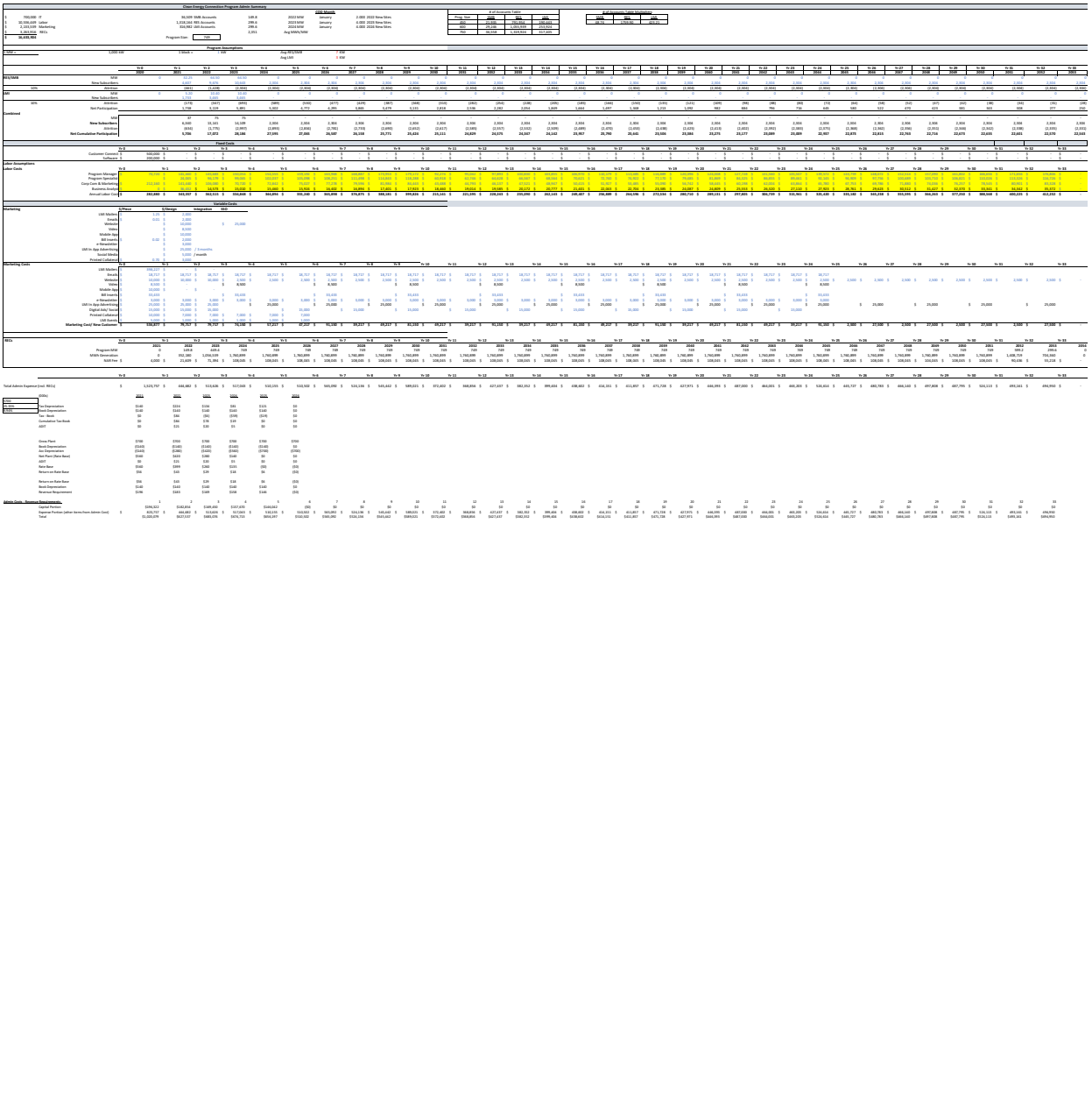
DOCUMENT DESCRIPTION:

Duke Energy (Triplett) - (CONFIDENTIAL) Documents provided in response to LULAC's 1st request for PODs (Nos. 1-8); specifically, No. 1, bearing Bates Nos. 20FL-CEC-000011 - 20FL-CEC-000039, and No. 2, bearing Bates Nos. 20FL-CEC-000048 - 20FL-CEC-000257.

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Clean Energy Connection Program Admin Summary

$	700,000	IT	96,509	5MB Accounts	149.4	2023 MW	January
$	10,538,439	Labor	1,318,164	1MB Accounts	299.4	2023 MW	January
$	1,000,000	Marketing	316,992	1MB Accounts	451.4	2024 MW	January
$	4,300,000	M&Vs			2,251	Avg 5MB/1.5MB	
$	**16,538,439**			Program Size:	500		

2500 Month	
January	2,000 2022 New Sites
January	4,000 2023 New Sites
January	4,000 2024 New Sites

# of Accounts Table			
Prog. Size	2023	2024	2025
450	13,500	281,500	288,000
500	15,000	1,315,000	1,327,000
750	30,500	1,324,500	2,017,000

Avg Monthly Sales Increase		
2023	2024	2025
29.73	1,958.92	833.33

2500 Sales Distribution	
Month	Number
January	2,000
February	2,000
March	2,000
April	2,750
May	2,500
June	3,000
July	3,000
August	2,500
September	2,500
October	2,500
November	2,250
December	2,000

Program Assumptions

1 MW =	1,000 kW	3 Month =	1 QM	Avg MW/kWh	7 kW	
				Avg LMA	1 kW	

		Yr 0	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Yr 7	Yr 8	Yr 9	Yr 10	Yr 11	Yr 12	Yr 13	Yr 14	Yr 15	Yr 16	Yr 17	Yr 18	Yr 19	Yr 20	Yr 21	Yr 22	Yr 23	Yr 24	Yr 25	Yr 26	Yr 27	Yr 28	Yr 29	Yr 30	Yr 31	Yr 32	Yr 33
		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
RES/MW	MW	-	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	42.0	43.5	45.0	46.5	48.0
	New Subscribers		1,500	3,000	3,000	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
	Attrition	10%	(150)	(450)	(900)	(1,350)	(1,800)	(2,250)	(2,700)	(3,150)	(3,600)	(4,050)	(4,500)	(4,950)	(5,400)	(5,850)	(6,300)	(6,750)	(7,200)	(7,650)	(8,100)	(8,550)	(9,000)	(9,450)	(9,900)	(10,350)	(10,800)	(11,250)	(11,700)	(12,150)	(12,600)	(13,050)	(13,500)	(13,950)
	Net Participation		1,350	2,550	2,100	150	(300)	(750)	(1,200)	(1,650)	(2,100)	(2,550)	(3,000)	(3,450)	(3,900)	(4,350)	(4,800)	(5,250)	(5,700)	(6,150)	(6,600)	(7,050)	(7,500)	(7,950)	(8,400)	(8,850)	(9,300)	(9,750)	(10,200)	(10,650)	(11,100)	(11,550)	(12,000)	(12,450)
EE	MW	-	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	42.0	43.5	45.0	46.5	48.0
	New Subscribers		1,713	3,427	3,427																													
	Attrition	10%	(171)	(427)	(855)	(985)	(928)	(877)	(829)	(787)	(748)	(710)	(675)	(641)	(609)	(578)	(549)	(521)	(495)	(470)	(446)	(424)	(403)	(383)	(364)	(346)	(329)	(312)	(297)	(282)	(268)	(254)	(242)	(230)
	Net Participation		1,713	3,328	5,882	5,353	4,772	4,281	3,865	3,479	3,131	2,818	2,536	2,282	2,052	1,849	1,664	1,497	1,348	1,213	1,092	982	884	796	716	645	580	522	470	423	381	343	308	277
Combined																																		
	MW	-	3.0	6.0	9.0	12.0	15.0	18.0	21.0	24.0	27.0	30.0	33.0	36.0	39.0	42.0	45.0	48.0	51.0	54.0	57.0	60.0	63.0	66.0	69.0	72.0	75.0	78.0	81.0	84.0	87.0	90.0	93.0	96.0
	New Subscribers		6,360	13,141	14,109	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904	2,904
	Attrition		(636)	(1,770)	(3,957)	(2,835)	(2,616)	(2,396)	(2,766)	(3,758)	(3,498)	(3,452)	(3,417)	(3,389)	(3,367)	(3,349)	(3,335)	(3,324)	(3,315)	(3,308)	(3,302)	(3,298)	(3,294)	(3,291)	(3,288)	(3,286)	(3,284)	(3,282)	(3,281)	(3,280)	(3,279)	(3,278)	(3,277)	(3,276)
	Net Cumulative Participation		**5,724**	**17,072**	**28,186**	**27,255**	**27,288**	**28,187**	**28,358**	**25,771**	**25,416**	**25,111**	**24,829**	**24,575**	**24,267**	**24,142**	**23,957**	**23,750**	**23,441**	**23,346**	**23,946**	**23,552**	**23,162**	**22,775**	**23,277**	**23,277**	**23,289**	**23,289**	**22,957**	**22,875**	**22,815**	**22,703**	**22,716**	**22,675**	**22,631**	**22,579**	**22,503**

Fixed Costs

		Yr 0	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Yr 7	Yr 8	Yr 9	Yr 10	Yr 11	Yr 12	Yr 13	Yr 14	Yr 15	Yr 16	Yr 17	Yr 18	Yr 19	Yr 20	Yr 21	Yr 22	Yr 23	Yr 24	Yr 25	Yr 26	Yr 27	Yr 28	Yr 29	Yr 30	Yr 31	Yr 32	Yr 33
	Customer Counter	$ 500,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Software	$ 250,000	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Labor Assumptions

Labor Costs

	Yr 0	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Yr 7	Yr 8	Yr 9	Yr 10	Yr 11	Yr 12	Yr 13	Yr 14	Yr 15	Yr 16	Yr 17	Yr 18	Yr 19	Yr 20	Yr 21	Yr 22	Yr 23	Yr 24	Yr 25	Yr 26	Yr 27	Yr 28	Yr 29	Yr 30	Yr 31	Yr 32	Yr 33
Program Manager	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000	$ 162,000
Program Specialist	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000	$ 132,000
Comp Com & Marketing	$ 210,000	$ 105,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000	$ 210,000
Business Analyst	$ -	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000	$ 78,000
Annual Labor Cost	**$ 382,000**	**$ 503,557**	**$ 582,515**	**$ 554,645**	**$ 554,893**	**$ 555,240**	**$ 555,998**	**$ 576,875**	**$ 588,181**	**$ 599,826**	**$ 215,141**	**$ 221,595**	**$ 228,243**	**$ 235,090**	**$ 242,143**	**$ 249,407**	**$ 256,888**	**$ 264,596**	**$ 272,534**	**$ 280,710**	**$ 289,131**	**$ 297,805**	**$ 306,739**	**$ 315,941**	**$ 325,420**	**$ 335,182**	**$ 345,238**	**$ 355,595**	**$ 366,263**	**$ 377,250**	**$ 388,568**	**$ 400,225**	**$ 412,232**	-

Variable Costs

Marketing

	$/Piece	$/Design	Integration	SEO
LMI Mailers	$ 1.00	$ 2,000		
Emails	$ 0.01	$ 2,000		
Website		$ 10,000	$ 25,000	
Video		$ 8,500		
Mobile App		$ 10,000		
Bill Inserts	$ 0.00	$ 2,000		
e-Newsletter		$ 3,000		
LMI In-App Advertising		$ 25,000	/ 3 months	
Social Media		$ 5,000	/ month	
Printed Collateral	$ 0.40	$ 500		

Marketing Costs

	Yr 0	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Yr 7	Yr 8	Yr 9	Yr 10	Yr 11	Yr 12	Yr 13	Yr 14	Yr 15	Yr 16	Yr 17	Yr 18	Yr 19	Yr 20	Yr 21	Yr 22	Yr 23	Yr 24	Yr 25	Yr 26	Yr 27	Yr 28	Yr 29	Yr 30	Yr 31	Yr 32	Yr 33
LMI Mailers	$ 288,217	$ -	$ -																															
Bundle	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ 18,717	$ -
Website	$ 10,000	$ 10,000	$ 10,000	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ 2,500	$ -
Video	$ 10,000	$ -	$ -	$ 8,500							$ 8,500						$ 8,500						$ 8,500						$ 8,500					
Mobile App	$ 10,000	$ -	$ -																															
Bill Inserts	$ 19,433			$ 19,433						$ 19,433						$ 19,433						$ 19,433						$ 19,433					
e-Newsletter	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ 3,000	$ -
LMI In-App Advertising	$ 25,000	$ 25,000	$ 25,000			$ 25,000		$ 25,000		$ 25,000		$ 25,000		$ 25,000		$ 25,000		$ 25,000		$ 25,000		$ 25,000		$ 25,000		$ 25,000		$ 25,000		$ 25,000		$ 25,000	
Social Media	$ 15,000	$ 15,000	$ 15,000	$ 15,000	$ 15,000		$ 15,000		$ 15,000		$ 15,000		$ 15,000		$ 15,000		$ 15,000		$ 15,000		$ 15,000		$ 15,000		$ 15,000		$ 15,000		$ 15,000		$ 15,000		$ -
Printed Collateral	$ 15,000	$ 7,000	$ 7,000	$ 7,000	$ 7,000	$ 7,000	$ 7,000																										
LMI Events	$ 5,000	$ 5,000	$ 5,000	$ 5,000	$ 5,000	$ 5,000	$ 5,000																										
Marketing Cost/ New Customer	**$ 106,277**	**$ 76,717**	**$ 76,717**	**$ 71,150**	**$ 57,217**	**$ 67,217**	**$ 61,150**	**$ 59,217**	**$ 59,217**	**$ 81,150**	**$ 49,217**	**$ 59,217**	**$ 61,150**	**$ 59,217**	**$ 59,217**	**$ 81,150**	**$ 86,317**	**$ 59,217**	**$ 61,150**	**$ 59,217**	**$ 59,217**	**$ 81,150**	**$ 59,217**	**$ 59,217**	**$ 81,150**	**$ 2,500**	**$ 27,500**	**$ 2,500**	**$ 27,500**	**$ 2,500**	**$ 27,500**	**$ 2,500**	**$ 27,500**	-

RECs

	Yr 0	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Yr 7	Yr 8	Yr 9	Yr 10	Yr 11	Yr 12	Yr 13	Yr 14	Yr 15	Yr 16	Yr 17	Yr 18	Yr 19	Yr 20	Yr 21	Yr 22	Yr 23	Yr 24	Yr 25	Yr 26	Yr 27	Yr 28	Yr 29	Yr 30	Yr 31	Yr 32	Yr 33
	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
Program MW	0	1.5	3.0	4.5	6.0	7.5	9.0	10.5	12.0	13.5	15.0	16.5	18.0	19.5	21.0	22.5	24.0	25.5	27.0	28.5	30.0	31.5	33.0	34.5	36.0	37.5	39.0	40.5	42.0	43.5	45.0	46.5	48.0	0
MWh Generation	0	352,380	1,056,539	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,760,899	1,408,719	704,360	0
NAR Fee	4,000	21,609	71,994	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	108,045	90,036	45,018	-

	Yr 0	Yr 1	Yr 2	Yr 3	Yr 4	Yr 5	Yr 6	Yr 7	Yr 8	Yr 9	Yr 10	Yr 11	Yr 12	Yr 13	Yr 14	Yr 15	Yr 16	Yr 17	Yr 18	Yr 19	Yr 20	Yr 21	Yr 22	Yr 23	Yr 24	Yr 25	Yr 26	Yr 27	Yr 28	Yr 29	Yr 30	Yr 31	Yr 32	Yr 33
Total Admin Expense (non-REs)	$ 1,519,757	$ 666,482	$ 513,636	$ 517,043	$ 510,155	$ 510,502	$ 565,090	$ 519,156	$ 545,642	$ 589,021	$ 372,452	$ 568,856	$ 427,457	$ 582,353	$ 399,604	$ 438,482	$ 434,161	$ 413,857	$ 471,728	$ 427,971	$ 446,993	$ 487,000	$ 464,001	$ 446,305	$ 516,414	$ 435,737	$ 483,783	$ 466,160	$ 497,808	$ 457,795	$ 524,113	$ 493,141	$ 494,950	$ -

Inputs

Inflation	2.00%	
Composite Tax Rate	21.00%	
Pre-Tax WACC	9.76%	

Months in Year

20.00%	
32.00%	
19.20%	
11.52%	
11.52%	
5.76%	

		2021	2022	2023	2024	2025	2026
Gross Plant	$760	$760	$760	$760	$760	$760	
Book Depreciation	($143)	($143)	($143)	($143)	($143)	$0	
Tax Depreciation	($143)	($286)	($429)	($560)	($708)	($760)	
Net Plant (Rate Base)	$617	$474	$331	$200	$52	($0)	
ADIT	$0	$31	$60	$81	$0	$0	
Rate Base	$560	$389	$260	$101	($0)	($0)	
Return on Rate Base	$56	$40	$29	$18	$6	($0)	
Return on Rate Base	$56	$40	$29	$18	$6	($0)	
Book Depreciation	$140	$143	$143	$140	$140	$0	
Revenue Requirement	$196	$183	$172	$158	$146	($0)	

Admin Costs - Revenue Requirements

		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
	Capital Portion		$696,313	$1,812,914	$2,685,492	$3,617,435	$4,612,617	($0)	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0	$0
	Expense Portion (other items from Admin Cost)	$	$23,717	$42,082	$213,604	$17,043	$10,155	$10,502	$65,090	$19,156	$45,642	$89,021	$72,452	$68,856	$27,457	$82,353	$99,604	$38,482	$34,161	$13,857	$71,728	$27,971	$46,993	$87,000	$64,001	$83,205	$16,414	$83,737	$83,783	$66,160	$97,808	$57,795	$24,113	$93,141	$94,950
	Total		$1,320,030	$617,537	$685,096	$674,743	$656,977	$160,502	$160,090	$154,156	$145,642	$589,021	$372,452	$568,856	$427,457	$582,353	$399,604	$438,482	$434,161	$413,857	$471,728	$427,971	$446,993	$487,000	$464,001	$483,205	$416,414	$483,737	$483,783	$466,160	$497,808	$457,795	$524,113	$493,141	$494,950

			0
			Admin Costs
0	2021	$	1,020,079
1	2022	$	627,537
2	2023	$	683,076
3	2024	$	674,713
4	2025	$	656,197
5	2026	$	510,502
6	2027	$	565,092
7	2028	$	524,136
8	2029	$	545,442
9	2030	$	589,021
10	2031	$	372,402
11	2032	$	368,856
12	2033	$	427,437
13	2034	$	382,352
14	2035	$	399,404
15	2036	$	438,602
16	2037	$	414,151
17	2038	$	411,857
18	2039	$	471,728
19	2040	$	427,971
20	2041	$	446,393
21	2042	$	487,000
22	2043	$	464,001
23	2044	$	463,203
24	2045	$	524,614
25	2046	$	445,727
26	2047	$	480,783
27	2048	$	466,140
28	2049	$	497,808
29	2050	$	487,795
30	2051	$	524,113
31	2052	$	493,161
32	2053	$	494,950
Total		**$**	**16,786,243**
NPV (2020$s)		**$**	**7,325,205**

CEC Solar DEF Forecasting

Prepared by Matt Stout, 4/13/2020 - AFUDC revised 5/5/2020

- PV module forecast based on market quotes for crystalline through 2022, then forecasted
- EPC contract market is tight currently but we expect cost reductions begining 2022
- Design of SAT 1.3 DC/AC achieves approximately 28.0% NCF
- 2020 project based on Twin Rivers with adjustments
- 2021 projects based on Archer, Duette, and Charlie Creek
- No land purchase prices assumed, pro forma assumes lease expense for all projects
- Use 2021 projects costs for Jan. 2022 CEC projects

Key Assumptions					
Design	Single-axis T	Single-axis T	Single-axis T	Single-axis T	Single-axis T
Project Size MWac	74.9	74.9	74.9	74.9	74.9
Project Size MWdc	97.0	97.0	97.0	97.0	97.0
DC/AC Ratio	1.30	1.30	1.30	1.30	1.30
PV Panel Price $/Wdc	$0.425	$0.350	$0.330	$0.310	$0.290
EPC $/Wdc	$0.470	$0.520	$0.500	$0.480	$0.460
Inflation	2.00%	2.00%	2.00%	2.00%	2.00%
Contingency	3.00%	4.00%	4.00%	4.00%	4.00%
AFDUC	2.24%	2.24%	2.24%	2.24%	2.24%
ITC%	30.00%	22.00%	22.00%	10.00%	10.00%
		2020	2021	2022	
		Jan 2022 COD	Jan 2023 COD	Jan 2024 COD	Not used

Per Project Cost (74.9 MW-ac)

	2022 Projects	2023 Projects	2024 Projects
Solar Plant	$96,068,532	$92,199,390	$88,333,570
Direct Assigned Interconnection	$3,060,000	$3,121,200	$3,183,624
Network Upgrades	$10,200,000	$10,404,000	$10,612,080
AFUDC (Total)	$3,980,963	$0	$0
Total Plant and Network Upgrades	**$113,309,495**	**$105,724,590**	**$102,129,274**

Estimate Summary	2020	2021	2022	2023	2024
Panels and EPC					
PV Panels	$41,225,000	$33,950,000	$32,010,000	$30,070,000	
EPC Contract	$45,590,000	$50,440,000	$48,500,000	$46,560,000	
GSU (230KV)	$1,044,677	$1,065,571	$1,086,882	$1,108,620	
Control System (SCADA/IT/Telecom/Yoh)	$600,440	$612,449	$624,698	$637,192	
Development, Real Estate, & Misc.	$5,000,000	$5,100,000	$5,202,000	$5,306,040	
Interconnection (Direct Assigned - Not ITC eligibile)	$3,000,000	$3,060,000	$3,121,200	$3,183,624	
Construction Oversight	$1,066,545	$1,087,876	$1,109,634	$1,131,827	
Contingency	$2,925,800	$3,812,636	$3,666,177	$3,519,892	
Pre-AFUDC Solar Capital	$100,452,462	$99,128,532	$95,320,590	$91,517,194	
AFUDC	$3,657,761	$3,609,552	$0	$0	
Sub Total Project Cost	**$104,110,223**	**$102,738,084**	**$95,320,590**	**$91,517,194**	
Network Upgrades	$10,000,000	$10,200,000	$10,404,000	$10,612,080	
AFUDC	$364,129	$371,411	$0	$0	
Total Project Cost	**$114,474,351**	**$113,309,495**	**$105,724,590**	**$102,129,274**	
Metrics Total Project Costs					
$/Wdc	**$1.18**	**$1.17**	**$1.09**	**$1.05**	
$/Wac	**$1.53**	**$1.51**	**$1.41**	**$1.36**	
$/KWdc	**$1,180**	**$1,168**	**$1,090**	**$1,053**	
$/KWac	**$1,528**	**$1,513**	**$1,412**	**$1,364**	
Metrics Total Project Costs Before Network Upgrades					
$/Wdc	**$1.07**	**$1.06**	**$0.98**	**$0.94**	**$0.00**
$/Wac	**$1.39**	**$1.37**	**$1.27**	**$1.22**	**$0.00**
$/KWdc	**$1,073**	**$1,059**	**$983**	**$943**	**$0**
$/KWac	**$1,390**	**$1,372**	**$1,273**	**$1,222**	**$0**

Solar Capex Excl AFUDC and Interconnection

2022	2023	2024
$96,068,532	$92,199,390	$88,333,570

3.6413% From AFUDC Calculation Spreasheet

AFUDC Trigger ($MMs) Based on Construction Commencement Year

2020	2021	2022	2023	2024
103	111.26	120.31	129.7	139.41

Fixed Distribution per IRS Agreement, per Andrew Wynn email 11/30/16
Solar

MACRS GDS Classification	Asset Class	Cost Seg %	ITC Amount
5-year property	§168(e)(3)(B)(vi)(I) - Solar Property	97.868%	97.868%
7-year property	§168(e)(3)(C)(v) - Personal Property With No Class Life	0.001%	
15-year property	00.3 - Land Improvements (ITC Eligible)	0.650%	0.650%
15-year property	00.3 - Land Improvements (ITC Ineligible)	0.924%	0.924%
20-year property	49.14 - Electric Utility T&D Plant	0.554%	
39-year property	§168(c) - Nonresidential Real Property	0.003%	
Total		100.000%	99.442%
Interconnects at		<69kv	>=69kv
5-yr MACRS		97.868%	97.868%
7-yr MACRS		0.001%	0.001%
10-yr S/L			
15-yr MACRS		1.574%	2.128%
20-yr MACRS		0.554%	
39-yr MACRS		0.003%	0.003%
Deducted Tax Year 1			
Deducted Tax Year 2			
Placeholder 1			
Placeholder 2			
Non Depreciable Tax			
Total		100.000%	100.000%

2022 Projects		2023 Projects		2024 Projects	
Solar Capital	% of Capital	Solar Capital	% of Capital	Solar Capital	% of Capital
$94,020,350.44	94.85%	$90,233,699	94.66%	$86,450,298	94.46%
$960.69	0.00%	$922	0.00%	$883	0.00%
$624,445.45	0.63%	$599,296	0.63%	$574,168	0.63%
$887,673.23	0.90%	$851,922	0.89%	$816,202	0.89%
$3,592,219.66	3.62%	$3,631,985	3.81%	$3,672,992	4.01%
$2,882.06	0.00%	$2,766	0.00%	$2,650	0.00%
$99,128,532	100.00%	$95,320,590	100.00%	$91,517,194	100.00%

MACRS Life			
5	94.85%	94.66%	94.46%
7	0.00%	0.00%	0.00%
15	1.53%	1.52%	1.52%
20	3.62%	3.81%	4.01%
39	0.00%	0.00%	0.00%
Total	100.00%	100.00%	100.00%

Annual Variable Benefits, Production and NPV of Capital Deferral Value:

2020-03 Variable Benefits Associated with 2020-03 Variable Benefits Associated with CEC_750MWsLCOE Calc_05282020.xlsx

Provided by DEF IRP Team as well as capital deferral value stated in 2020$'s

Capital Cost Estimates:

CEC - Project Costs Forecasting (Filing)

Provided by DET Solar Development Team

Revenue Requirements:

CEC Revenue Requirements (Filing).xlsx

ITC values of 22%, 22% and 10% for 2022, 2023 and 2024 COD years, respectively

Network upgrade revenue requirements based on 40 year life and using first 30 years in program cost analysis.

Program Administration Costs from CEC - Admin Costs (Filing).xlxs

Discount Rate

Based on updated long-term forecast of debt provided by Corp Treasury in March 2020

DEF CEC Program

C&I and Residential Program Analysis

C&I and Residential Carve-Out: 96.5%

% of Allocated Revenue Requirement

100.00%

Program View

Calendar Year	Production Year	Capacity (MW)	Production (MWh)	Subscription Fee ($/kW-Month)	Annual Subscription Fees	Credit Escalator	Credit ($/kWh)	Annual Credits	Cost/(Savings) Annual	Cost/(Savings) Cumulative	Revenue Requirements	Variable Benefits
2020		0	0	0.00	$0		0	$0	$0	$0	$0	$0
2021		0	0	0.00	$0		0	$0	$0	$0	$984,631	$0
2022	1	144.19445	314700	8.35	$14,488,364	0.00%	+0.0370	($14,319,254)	$169,108	$169,108	$30,391,476	-$9,532,345
2023	2	432.78335	1062350	8.35	$43,465,692	0.00%	+0.0370	($42,885,678)	$579,421	$748,529	$66,704,853	-$27,416,844
2024	3	721.37225	1792350	8.35	$72,441,819	0.00%	+0.0370	($71,478,104)	$963,715	$1,712,242	$104,546,080	-$47,104,261
2025	4	721.37225	1757556	8.35	$72,441,819	1.50%	+.0380	($72,014,641)	$417,168	$2,129,410	$127,410,321	-$52,077,385
2026	5	721.37225	1746782	8.35	$72,441,819	1.50%	+.1590	($72,524,841)	-$290,035	$1,839,885	$121,465,997	-$55,186,646
2027	6	721.37225	1740027	8.35	$72,441,819	1.50%	+.2210	($73,446,549)	-$1,004,729	$834,156	$109,013,639	-$60,631,366
2028	7	721.37225	1734423	8.35	$72,441,819	1.50%	+.2840	($74,345,520)	-$1,903,701	-$1,069,545	$105,290,093	-$61,635,865
2029	8	721.37225	1723462	8.35	$72,441,819	1.50%	+.3480	($74,921,360)	-$2,459,540	-$3,529,086	$103,350,453	-$70,860,613
2030	9	721.37225	1714052	8.35	$72,441,819	1.50%	+.4130	($75,441,130)	-$3,199,310	-$6,728,396	$99,870,160	-$66,367,804
2031	10	721.37225	1705481	8.35	$72,441,819	1.50%	+.4790	($76,388,490)	-$3,946,671	-$10,675,067	$97,379,534	-$77,857,444
2032	11	721.37225	1700973	8.35	$72,441,819	1.50%	+.5460	($77,326,242)	-$4,884,422	-$15,559,489	$95,123,683	-$75,823,983
2033	12	721.37225	1688454	8.35	$72,441,819	1.50%	+.6140	($77,905,264)	-$5,463,444	-$21,022,933	$92,929,811	-$77,234,340
2034	13	721.37225	1680027	8.35	$72,441,819	1.50%	+.6830	($78,675,677)	-$6,233,858	-$27,256,791	$90,595,140	-$83,980,655
2035	14	721.37225	1671639	8.35	$72,441,819	1.50%	+.7530	($79,453,054)	-$7,011,194	-$34,267,985	$88,453,131	-$82,534,935
2036	15	721.37225	1667228	8.35	$72,441,819	1.50%	+.8240	($80,427,082)	-$7,985,262	-$42,253,248	$86,269,795	-$81,905,913
2037	16	721.37225	1654969	8.35	$72,441,819	1.50%	+.8960	($81,027,301)	-$8,585,482	-$50,838,728	$84,036,223	-$88,051,673
2038	17	721.37225	1646688	8.35	$72,441,819	1.50%	+.9690	($81,823,904)	-$9,382,085	-$60,220,814	$87,822,767	-$94,332,405
2039	18	721.37225	1638454	8.35	$72,441,819	1.50%	+1.0440	($82,643,618)	-$10,201,798	-$70,422,612	$85,176,997	-$98,268,193
2040	19	722.97225	1634139	8.35	$72,441,819	1.50%	+1.1200	($83,667,932)	-$11,226,112	-$81,648,725	$82,422,628	-$103,145,892
2041	20	722.97225	1622103	8.35	$72,441,819	1.50%	+1.1970	($84,300,673)	-$11,858,854	-$93,507,579	$79,750,675	-$105,929,578
2042	21	722.97225	1613981	8.35	$72,441,819	1.50%	+1.2750	($85,137,702)	-$12,695,883	-$106,203,461	$77,331,343	-$104,867,768
2043	22	722.97225	1605915	8.35	$72,441,819	1.50%	+1.3540	($86,980,710)	-$14,538,890	-$120,742,351	$75,038,550	-$110,554,498
2044	23	722.97225	1601697	8.35	$72,441,819	1.50%	+1.4340	($87,036,228)	-$14,594,409	-$135,336,760	$72,840,921	-$107,277,415
2045	24	722.97225	1589921	8.35	$72,441,819	1.50%	+1.5160	($87,700,053)	-$15,258,233	-$149,594,993	$70,671,452	-$116,380,496
2046	25	722.97225	1581968	8.35	$72,441,819	1.50%	+1.5990	($88,574,362)	-$16,132,543	-$165,727,536	$68,537,524	-$117,804,896
2047	26	722.97225	1574062	8.35	$72,441,819	1.50%	+1.6830	($89,453,951)	-$17,012,132	-$182,739,667	$66,483,913	-$112,577,530
2048	27	722.97225	1569468	8.35	$72,441,819	1.50%	+1.7680	($90,126,888)	-$18,085,068	-$200,824,736	$64,474,689	-$126,880,558
2049	28	722.97225	1558229	8.35	$72,441,819	1.50%	+1.8550	($91,240,137)	-$18,798,318	-$219,623,053	$62,446,932	-$119,636,849
2050	29	722.97225	1550558	8.35	$72,441,819	1.50%	+1.9430	($92,149,679)	-$19,707,860	-$239,330,913	$60,510,852	-$122,923,799
2051	30	722.97225	1542817	8.35	$72,441,819	1.50%	+2.0320	($93,062,731)	-$20,620,901	-$259,951,815	$62,168,973	-$119,052,948
2052	31	578.3778	1233422	8.35	$57,953,456	0.00%	+0.0320	($74,109,668)	-$16,386,212	-$276,338,027	$52,977,282	-$111,568,274
2053	32	289.1889	611930	8.35	$28,976,728	0.00%	+0.0320	($36,911,611)	-$7,934,883	-$284,272,910	$30,664,979	-$59,535,665
2054	33	0	0	0.00								

C&I/Res - PARAMETERS

Subscription Fee:	$8.35
Credit:	-0.0370
Credit Escalator:	1.50%
Capital Deferral	$353,458,777
Discount Rate:	6.70%
Capacity Factor:	28.00%
Degradation Rate:	0.50%
% Participants Pay of NPVRR:	104.560%

$37,870,503.67

Totals - C&I and Residential

NPV (Rq.)	$1,107,761,573
NPV (RR) Incl. Cap. Deferral	$804,437,992
NPV (Sub. Costs)	$804,438,031
NPV (Benefits)	($669,660,216)
NPV (Credit to Participants)	($869,662,141)

Include Carbon Benefit (Y/N)	N
% of Variable Benefits	100.00%
Include Program Admin. Costs (Y/N)	Y

Always included

Program Benefits - C&I Res

	NPV - $Mlns	% of Total
Capital Deferral	$241.18	21.0%
Fuel	$798.14	69.2%
Variable O&M	$42.31	3.8%
Emissions	$1	0.1%
Carbon	$419	25.8%
Total	$1,621.96	

Program Costs - C&I Res

Solar Rev Req	$1,101	99.4%
Admin Costs	$7	0.6%
Total	$1,108	
Total Program Savings	$514	
Participant Savings	$65	12.7%
Non-Participant Savings	$449	87.3%
Program Savings (Non-Carbon)	$95	
Participant Savings	$65	68.5%
Non-Participant Savings	$30	31.5%

Tariff Schedule - C&I and Residential

Program Year	Subscription Fee ($/kW-mo)	Credit ($mm/kWh)	Credit Esc (%/yr)
1	$8.35	-0.0370	
2	$8.35	-0.0370	0.0%
3	$8.35	-0.0370	0.0%
4	$8.35	-0.0980	1.5%
5	$8.35	-0.1590	1.5%
6	$8.35	-0.2210	1.5%
7	$8.35	-0.2840	1.5%
8	$8.35	-0.3480	1.5%
9	$8.35	-0.4130	1.5%
10	$8.35	-0.4790	1.5%
11	$8.35	-0.5460	1.5%
12	$8.35	-0.6140	1.5%
13	$8.35	-0.6830	1.5%
14	$8.35	-0.7530	1.5%
15	$8.35	-0.8240	1.5%
16	$8.35	-0.8960	1.5%
17	$8.35	-0.9690	1.5%
18	$8.35	-1.0440	1.5%
19	$8.35	-1.1200	1.5%
20	$8.35	-1.1970	1.5%
21	$8.35	-1.2750	1.5%
22	$8.35	-1.3540	1.5%
23	$8.35	-1.4340	1.5%
24	$8.35	-1.5160	1.5%
25	$8.35	-1.5990	1.5%
26	$8.35	-1.6830	1.5%
27	$8.35	-1.7680	1.5%
28	$8.35	-1.8550	1.5%
29	$8.35	-1.9430	1.5%
30	$8.35	-2.0320	1.5%
31	$8.35	-0.0320	0.0%
32	$8.35	-0.0320	0.0%

PAYBACK CHECK

Year	MW	MWh	Sub Fee	Credit	Annual	Cumulative
1	1	2453.071	100.2	-99.0305	1.169533	1.169533
2	1	2448.954	100.2	-98.8643	1.335721	2.505254
3	1	2449.059	100.2	-98.8677	1.332357	3.837561
4	1	2431.015	100.2	-96.623	0.577916	4.414579
5	1	2426.709	100.2	-95.1591	1.139772	5.554351
6	1	2426.709	100.2	-93.04	1.28972	6.843972
7	1	2400.405	100.2	-102.833	-2.43356	-0.00996
8	1	2382.71	100.2	-103.692	3.45638	-3.45346
9	1	2370.845	100.2	-104.435	4.425128	-7.83846
10	1	2358.985	100.2	-105.439	5.458895	-13.2956
11	1	2352.75	100.2	-106.956	6.75603	-20.0516
12	1	2335.434	100.2	-107.757	7.55692	-27.6086

DEF CEC Program

LMI Program Analysis

LMI Carve-Out: 3.47%

Levelized MWs 23.63

-$9.03

Total

Calendar Year	Production Year	Capacity (MW)	Production (MWh)	Subscription Fee $/kW/Month	Annual Subscription Cost	Credit Escalator	Credit $/kW-mo	Annual Credit	Cost/(Savings) Annual	Cost/(Savings) Cumulative	Revenue Requirements	Benefits	Annual	Cumulative
2020		0	0	0	$0	0.00%	$0.00	$0	$0	$0	$0	$0	$0	$0
2021		0	0	0	$0	0.00%	$0.00	$0	$0	$0	$35,448	$0	$0	$0
2022	1	5.20555	12770	$8.35	$521,596	0.00%	-$9.03	-$564,073	-$42,477	-$42,477	$1,094,125	-$343,174	$6,088	$6,088
2023	2	15.61665	38244	$8.35	$1,564,788	0.00%	-$9.03	-$1,692,220	-$127,432	-$169,909	$3,049,462	-$987,035	$20,859	$26,948
2024	3	26.02775	63743	$8.35	$2,607,981	0.00%	-$9.03	-$2,820,367	-$212,386	-$382,296	$4,830,118	-$1,894,606	$34,677	$61,624
2025	4	26.02775	63274	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$594,682	$4,586,904	-$1,874,840	$15,300	$76,925
2026	5	26.02775	62958	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$807,068	$4,372,898	-$1,986,769	-$10,453	$66,472
2027	6	26.02775	62643	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$1,019,455	$3,924,603	-$2,182,937	-$36,424	$30,048
2028	7	26.02775	62477	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$1,231,841	$3,790,552	-$2,218,955	-$68,988	-$38,940
2029	8	26.02775	62018	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$1,444,228	$3,684,722	-$2,551,055	-$89,163	-$128,104
2030	9	26.02775	61708	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$1,656,614	$3,595,429	-$2,389,310	-$115,938	-$244,041
2031	10	26.02775	61399	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$1,869,001	$3,505,764	-$2,802,949	-$142,971	-$387,012
2032	11	26.02775	61237	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$2,081,387	$3,424,551	-$2,729,742	-$176,855	-$563,867
2033	12	26.02775	60786	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$2,293,774	$3,345,569	-$2,780,516	-$197,824	-$761,691
2034	13	26.02775	60483	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$2,506,160	$3,261,520	-$3,023,383	-$225,697	-$987,388
2035	14	26.02775	60181	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$2,718,546	$3,182,604	-$2,971,343	-$253,842	-$1,241,231
2036	15	26.02775	60022	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$2,930,933	$3,105,802	-$2,948,698	-$289,105	-$1,530,335
2037	16	26.02775	59581	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$3,143,319	$3,025,395	-$3,169,951	-$310,940	-$1,841,275
2038	17	26.02775	59282	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$3,355,706	$3,161,711	-$3,396,064	-$339,898	-$2,181,173
2039	18	26.02775	58986	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$3,568,092	$3,066,460	-$3,573,758	-$369,155	-$2,550,328
2040	19	26.02775	58831	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$3,780,479	$2,967,300	-$3,713,359	-$405,855	-$2,956,183
2041	20	26.02775	58397	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$3,992,865	$2,871,107	-$3,813,575	-$428,530	-$3,384,713
2042	21	26.02775	58105	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$4,205,252	$2,784,008	-$3,775,348	-$458,654	-$3,843,366
2043	22	26.02775	57815	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$4,417,638	$2,701,466	-$3,980,076	-$489,091	-$4,332,457
2044	23	26.02775	57663	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$4,630,024	$2,623,065	-$3,862,098	-$527,290	-$4,859,747
2045	24	26.02775	57239	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$4,842,411	$2,544,245	-$4,189,818	-$550,922	-$5,410,669
2046	25	26.02775	56952	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$5,054,797	$2,467,422	-$4,241,102	-$582,266	-$5,992,935
2047	26	26.02775	56668	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$5,267,184	$2,393,490	-$4,052,908	-$613,938	-$6,606,873
2048	27	26.02775	56502	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$5,479,570	$2,321,228	-$4,567,832	-$652,721	-$7,259,595
2049	28	26.02775	56101	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$5,691,957	$2,248,154	-$4,307,051	-$678,149	-$7,937,737
2050	29	26.02775	55822	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$5,904,343	$2,178,452	-$4,425,384	-$710,803	-$8,648,540
2051	30	26.02775	55543	$8.35	$2,607,981	1.50%	-$9.03	-$2,820,367	-$212,386	-$6,116,729	$2,238,183	-$4,286,029	-$743,767	-$9,392,307
2052	31	20.8222	44368	$8.35	$2,086,384	0.00%	-$9.03	-$2,256,294	-$169,909	-$6,286,639	$1,907,237	-$4,016,573	-$591,034	-$9,983,341
2053	32	10.4111	22030	$8.35	$1,043,192	0.00%	-$9.03	-$1,128,147	-$84,955	-$6,371,593	$1,103,971	-$2,143,946	-$286,217	-$10,269,558

LMI - PARAMETERS

Subscription Fee:	$8.35
Credit* ($/kW-mo):	-$9.03
Credit Escalator:	1.50%
Capital Deferral	$353,458,777
Discount Rate:	6.70%
Capacity Factor:	28.00%
Degradation Rate:	0.50%
% Participants Pay of NPVRR:	104.9%

LMI CREDIT cents/kWh -4.0370 **CHECKS**

Totals - LMI

NPV (RR)	$39,879,916
NPV (RR) less Cap. Deferral	$28,960,601
NPV (Sub. Costs)	$28,960,603
NPV (Benefits)	($31,308,777)
NPV (Credit to Participants)	($31,319,071)

Include Carbon Benefit (Y/N)	N
% of Non-Carbon Benefits	100.9%
Include Program Admin. Costs (Y/N)	Y

Program Benefits - LMI	NPV - SMMs	% of Total
Capital Deferral	$12.28	21.0%
Fuel	$28.73	49.2%
Variable O&M	$2.24	3.8%
Emissions	$0.05	0.1%
Carbon	$15.09	25.8%
Total	$58.39	
Program Costs - LMI		
Solar Rev Req	$39.63	99.4%
Admin Costs	$0.25	0.6%
Total	$39.88	
Total Program Savings	$18.51	
Participant Savings	$2.36	12.7%
Non-Participant Savings	$16.15	87.3%
Program Savings (Non-Carbon)	$3.43	
Participant Savings	$2.36	68.8%
Non-Participant Savings	$1.07	31.2%

DEF CEC Program

Total Program Analysis

Program View

Calendar Year	Production Year	Capacity (MW)	Production (MWh)	Subscription Fee $/kW/Month	Annual Subscription Fees	Credit Escalator	Credit cents/kWh	Annual Credit	Cost/(Savings) Annual	Cost/(Savings) Cumulative	Revenue Requirements	Variable Benefits
2020		0	0		$0			$0	$0	$0	$0	$0
2021		0	0		$0			$0	$0	$0	$1,020,079	$0
2022	1	149.8	367470		$15,009,960			($14,883,329)	$126,631	$126,631	$31,485,601	-$9,875,520
2023	2	449.4	1100560		$45,029,880			($44,577,899)	$451,981	$578,612	$87,754,315	-$28,403,879
2024	3	749	1834330		$75,049,800			($74,298,965)	$750,835	$1,329,447	$138,996,198	-$54,521,024
2025	4	749	1820830		$75,049,800			($74,845,018)	$204,782	$1,534,228	$131,997,225	-$53,952,225
2026	5	749	1811740		$75,049,800			($75,552,212)	-$502,412	$1,031,817	$125,838,795	-$57,173,215
2027	6	749	1802670		$75,049,800			($76,266,916)	-$1,217,116	-$185,299	$112,938,224	-$62,818,323
2028	7	749	1797900		$75,049,800			($77,165,887)	-$2,116,087	-$2,301,387	$109,080,645	-$63,854,820
2029	8	749	1784680		$75,049,800			($77,721,727)	-$2,671,927	-$4,973,313	$106,035,175	-$73,411,669
2030	9	749	1775760		$75,049,800			($78,461,497)	-$3,411,697	-$8,385,010	$103,465,589	-$68,757,113
2031	10	749	1766880		$75,049,800			($79,208,857)	-$4,159,057	-$12,544,068	$100,885,299	-$80,660,393
2032	11	749	1762210		$75,049,800			($80,146,609)	-$5,096,809	-$17,640,876	$98,548,235	-$78,553,725
2033	12	749	1749240		$75,049,800			($80,725,630)	-$5,675,830	-$23,316,707	$96,275,381	-$80,014,856
2034	13	749	1740510		$75,049,800			($81,496,044)	-$6,446,244	-$29,762,951	$93,856,680	-$87,003,838
2035	14	749	1731820		$75,049,800			($82,273,381)	-$7,223,581	-$36,986,532	$91,585,735	-$85,506,279
2036	15	749	1727250		$75,049,800			($83,247,449)	-$8,197,649	-$45,184,181	$89,375,597	-$84,854,611
2037	16	749	1714550		$75,049,800			($83,847,668)	-$8,797,868	-$53,982,049	$87,061,718	-$91,221,624
2038	17	749	1705970		$75,049,800			($84,644,271)	-$9,594,471	-$63,576,520	$90,984,477	-$97,728,469
2039	18	749	1697440		$75,049,800			($85,463,985)	-$10,414,185	-$73,990,704	$88,243,457	-$102,841,951
2040	19	749	1692970		$75,049,800			($86,488,299)	-$11,438,499	-$85,429,203	$85,389,928	-$106,859,251
2041	20	749	1680500		$75,049,800			($87,121,040)	-$12,071,240	-$97,500,444	$82,621,782	-$109,743,153
2042	21	749	1672090		$75,049,800			($87,958,069)	-$12,908,269	-$110,408,713	$80,115,352	-$108,643,117
2043	22	749	1663730		$75,049,800			($88,801,077)	-$13,751,277	-$124,159,989	$77,740,015	-$114,534,574
2044	23	749	1659360		$75,049,800			($89,856,595)	-$14,806,795	-$138,966,784	$75,483,886	-$111,139,514
2045	24	749	1647160		$75,049,800			($90,520,420)	-$15,470,620	-$154,437,404	$73,215,698	-$120,570,314
2046	25	749	1638920		$75,049,800			($91,394,729)	-$16,344,929	-$170,782,333	$71,004,946	-$122,046,098
2047	26	749	1630730		$75,049,800			($92,274,318)	-$17,224,518	-$188,006,851	$68,877,402	-$116,630,438
2048	27	749	1625970		$75,049,800			($93,347,255)	-$18,297,455	-$206,304,306	$66,797,917	-$131,448,389
2049	28	749	1614430		$75,049,800			($94,060,504)	-$19,010,704	-$225,315,010	$64,695,086	-$123,943,900
2050	29	749	1606380		$75,049,800			($94,970,046)	-$19,920,246	-$245,235,256	$62,689,263	-$127,349,184
2051	30	749	1598360		$75,049,800			($95,883,088)	-$20,833,288	-$266,068,544	$64,408,157	-$123,338,978
2052	31	599.2	1276790		$60,039,840			($76,595,961)	-$16,556,121	-$282,624,666	$54,884,520	-$115,584,847
2053	32	299.6	633960		$30,019,920			($38,039,758)	-$8,019,838	-$290,644,503	$31,768,950	-$61,679,010
2054	33	0	0		$0			$0				

Total - PARAMETERS

Subscription Fee:	$8.35
Credit:	-4.0370
Credit Escalator:	1.50%
Capital Deferral	$353,458,777
Discount Rate:	6.70%
Capacity Factor:	28.00%
Degradation Rate:	0.50%
($314,224,896.35) % Participants Pay of NPVRR:	104.941%

Totals - C&I and Residential

NPV (RR)	$1,147,623,490
NPV (RR) less Cap. Deferral	$833,398,593
NPV (Sub. Costs)	$833,398,634
NPV (Benefits)	($900,971,993)
NPV (Credit to Participants)	($900,982,211)

	Include Carbon Benefit (Y/N)	N
	% of Variable Benefits	100.92%
Always included	Include Program Admin. Costs (Y/N)	Y

Program Benefits - Total	NPV - $MMs	% of Total
Capital Deferral	$353.46	21.0%
Fuel	$826.88	49.2%
Variable O&M	$64.55	3.8%
Emissions	$1.35	0.1%
Carbon	$434.12	25.8%
Total	$1,680.35	
Program Costs - Total		
Solar Rev Req	$1,140	99.4%
Admin Costs	$7	0.6%
Total	$1,148	
Total Program Savings	$533	
Participant Savings	$68	12.7%
Non-Participant Savings	$465	87.3%
Program Savings (Non-Carbon)	$99	
Participant Savings	$68	68.5%
Non-Participant Savings	$31	31.5%

6.70% Disc Rate

Linked to Revenue Requirement Calcualtion Model

Linked to Benefit Results File

Year	CEC Capacity MW	Year	Program Revenue Requirements - ($000) From Revenue Requirement Calcs Summary							Program Costs ($)			Year	100% Variable Benefits ($MM's)					Fixed Benefits ($MMs)	CEC Prod GWh	CEC Prod MWh
			2022 Solar	2023 Solar	2024 Solar	2022 NU	2023 NU	2024 NU	Total	Solar & N/U	Program Admin.	Total Program		100.000% Fuel	100.000% VOM	100.000% Enviro	0.000% Carbon	Total	Capex,FOM,Gas Trans		
		2019											2019								
		2020											2020								
0	0.0	2021	$ -	$ -	$ -	$ -	$ -	$ -	$ -	$0	$1,020,079	$1,020,079	2021	-	-	-	-	-	-	-	-
1	149.8	2022	$ 28,278	$ -	$ -	$ 2,580	$ -	$ -	$ 30,858	$30,858,064	$627,537	$31,485,601	2022	(8.32)	(1.40)	(0.07)	-	(9.79)	-	367.47	367,470
2	449.4	2023	$ 26,795	$ 52,688	$ -	$ 2,512	$ 5,077	$ -	$ 87,071	$87,071,239	$683,076	$87,754,315	2023	(24.19)	(3.84)	(0.11)	-	(28.15)	-	1,100.56	1,100,560
3	749.0	2024	$ 25,341	$ 49,877	$ 50,548	$ 2,435	$ 4,941	$ 5,179	$ 138,321	$138,321,485	$674,713	$138,996,198	2024	(48.39)	(5.35)	(0.29)	-	(54.03)	-	1,834.33	1,834,330
4	749.0	2025	$ 24,272	$ 47,125	$ 47,754	$ 2,363	$ 4,788	$ 5,040	$ 131,341	$131,341,028	$656,197	$131,997,225	2025	(48.69)	(4.43)	(0.34)	(4.66)	(58.12)	-	1,820.83	1,820,830
5	749.0	2026	$ 23,376	$ 45,114	$ 45,018	$ 2,294	$ 4,643	$ 4,883	$ 125,328	$125,328,293	$510,502	$125,838,795	2026	(51.75)	(4.63)	(0.28)	(8.10)	(64.75)	-	1,811.74	1,811,740
6	749.0	2027	$ 20,348	$ 39,268	$ 41,285	$ 2,229	$ 4,507	$ 4,736	$ 112,373	$112,373,131	$565,092	$112,938,224	2027	(56.97)	(5.10)	(0.17)	(11.21)	(73.46)	(10.97)	1,802.67	1,802,670
7	749.0	2028	$ 19,774	$ 37,995	$ 39,648	$ 2,166	$ 4,377	$ 4,597	$ 108,557	$108,556,509	$524,136	$109,080,645	2028	(57.12)	(6.08)	(0.07)	(14.19)	(77.47)	(29.54)	1,797.90	1,797,900
8	749.0	2029	$ 19,313	$ 36,940	$ 38,416	$ 2,104	$ 4,252	$ 4,464	$ 105,490	$105,489,733	$545,442	$106,035,175	2029	(67.12)	(5.25)	(0.38)	(19.65)	(92.39)	(25.26)	1,784.68	1,784,680
9	749.0	2030	$ 18,854	$ 36,103	$ 37,412	$ 2,042	$ 4,129	$ 4,337	$ 102,877	$102,876,568	$589,021	$103,465,589	2030	(62.45)	(5.76)	0.08	(18.49)	(86.62)	(28.01)	1,775.76	1,775,760
10	749.0	2031	$ 18,417	$ 35,271	$ 36,629	$ 1,980	$ 4,005	$ 4,211	$ 100,513	$100,512,896	$372,402	$100,885,299	2031	(73.26)	(6.69)	0.03	(22.39)	(102.32)	(23.71)	1,766.88	1,766,880
11	749.0	2032	$ 17,961	$ 34,481	$ 35,852	$ 1,918	$ 3,882	$ 4,086	$ 98,179	$98,179,378	$368,856	$98,548,235	2032	(71.58)	(6.38)	0.11	(24.71)	(102.55)	(26.62)	1,762.21	1,762,210
12	749.0	2033	$ 17,501	$ 33,654	$ 35,118	$ 1,856	$ 3,759	$ 3,960	$ 95,848	$95,847,943	$427,437	$96,275,381	2033	(73.57)	(5.76)	0.04	(28.01)	(107.30)	(22.29)	1,749.24	1,749,240
13	749.0	2034	$ 17,043	$ 32,821	$ 34,346	$ 1,794	$ 3,636	$ 3,834	$ 93,474	$93,474,328	$382,352	$93,856,680	2034	(79.32)	(6.86)	(0.04)	(33.01)	(119.22)	(55.06)	1,740.51	1,740,510
14	749.0	2035	$ 16,673	$ 31,992	$ 33,568	$ 1,732	$ 3,513	$ 3,709	$ 91,186	$91,186,331	$399,404	$91,585,735	2035	(77.60)	(7.07)	(0.06)	(35.12)	(119.85)	(84.03)	1,731.82	1,731,820
15	749.0	2036	$ 16,162	$ 31,337	$ 32,794	$ 1,670	$ 3,390	$ 3,583	$ 88,937	$88,936,995	$438,602	$89,375,597	2036	(78.91)	(5.10)	(0.07)	(41.60)	(125.68)	(54.93)	1,727.25	1,727,250
16	749.0	2037	$ 15,711	$ 30,402	$ 32,195	$ 1,615	$ 3,267	$ 3,458	$ 86,648	$86,647,567	$414,151	$87,061,718	2037	(87.95)	(2.37)	(0.07)	(50.33)	(140.72)	(34.36)	1,714.55	1,714,550
17	749.0	2038	$ 16,499	$ 32,089	$ 33,920	$ 1,574	$ 3,158	$ 3,332	$ 90,573	$90,572,620	$411,857	$90,984,477	2038	(89.93)	(6.84)	(0.07)	(56.91)	(153.75)	(63.09)	1,705.97	1,705,970
18	749.0	2039	$ 15,906	$ 31,069	$ 32,958	$ 1,539	$ 3,077	$ 3,221	$ 87,772	$87,771,728	$471,728	$88,243,457	2039	(95.08)	(6.77)	(0.06)	(66.88)	(168.79)	(82.99)	1,697.44	1,697,440
19	749.0	2040	$ 15,315	$ 29,990	$ 32,003	$ 1,505	$ 3,010	$ 3,139	$ 84,962	$84,961,956	$427,971	$85,389,928	2040	(99.31)	(6.52)	(0.06)	(73.75)	(179.64)	(81.90)	1,692.97	1,692,970
20	749.0	2041	$ 14,786	$ 28,915	$ 30,991	$ 1,471	$ 2,943	$ 3,070	$ 82,175	$82,175,389	$446,393	$82,621,782	2041	(101.99)	(6.70)	(0.06)	(80.65)	(189.39)	(80.82)	1,680.50	1,680,500
21	749.0	2042	$ 14,373	$ 27,959	$ 29,982	$ 1,436	$ 2,876	$ 3,002	$ 79,628	$79,628,352	$487,000	$80,115,352	2042	(100.45)	(7.14)	(0.07)	(83.59)	(191.25)	(79.81)	1,672.09	1,672,090
22	749.0	2043	$ 13,825	$ 27,215	$ 29,090	$ 1,402	$ 2,810	$ 2,934	$ 77,276	$77,276,015	$464,001	$77,740,015	2043	(105.55)	(7.88)	(0.06)	(91.79)	(205.28)	(78.93)	1,663.73	1,663,730
23	749.0	2044	$ 13,422	$ 26,222	$ 28,400	$ 1,368	$ 2,743	$ 2,866	$ 75,021	$75,020,684	$463,203	$75,483,886	2044	(104.34)	(5.72)	(0.07)	(94.27)	(204.40)	(78.16)	1,659.36	1,659,360
24	749.0	2045	$ 12,914	$ 25,497	$ 27,472	$ 1,333	$ 2,676	$ 2,798	$ 72,691	$72,691,084	$524,614	$73,215,698	2045	(111.42)	(7.99)	(0.07)	(101.43)	(220.91)	(77.40)	1,647.16	1,647,160
25	749.0	2046	$ 12,539	$ 24,579	$ 26,802	$ 1,299	$ 2,610	$ 2,730	$ 70,559	$70,559,219	$445,727	$71,004,946	2046	(112.69)	(8.18)	(0.07)	(106.42)	(227.35)	(42.64)	1,638.92	1,638,920
26	749.0	2047	$ 12,068	$ 23,911	$ 25,947	$ 1,265	$ 2,543	$ 2,662	$ 68,397	$68,396,620	$480,783	$68,877,402	2047	(111.18)	(4.32)	(0.07)	(109.47)	(225.04)	(18.17)	1,630.73	1,630,730
27	749.0	2048	$ 11,634	$ 23,061	$ 25,334	$ 1,231	$ 2,477	$ 2,594	$ 66,332	$66,331,777	$466,140	$66,797,917	2048	(122.40)	(7.79)	(0.06)	(123.43)	(253.69)	(18.20)	1,625.97	1,625,970
28	749.0	2049	$ 11,238	$ 22,281	$ 24,544	$ 1,197	$ 2,411	$ 2,527	$ 64,197	$64,197,279	$497,808	$64,695,086	2049	(115.34)	(7.40)	(0.07)	(120.81)	(243.63)	(18.22)	1,614.43	1,614,430
29	749.0	2050	$ 10,843	$ 21,570	$ 23,822	$ 1,163	$ 2,345	$ 2,459	$ 62,201	$62,201,468	$487,795	$62,689,263	2050	(118.63)	(7.50)	(0.07)	(128.27)	(254.46)	(18.26)	1,606.38	1,606,380
30	749.0	2051	$ 14,057	$ 20,862	$ 23,166	$ 1,129	$ 2,279	$ 2,392	$ 63,884	$63,884,044	$524,113	$64,408,157	2051	(128.12)	5.97	(0.07)	(143.88)	(266.09)	(18.28)	1,598.36	1,598,360
31	599.2	2052	$ -	$ 27,341	$ 22,513	$ -	$ 2,213	$ 2,324	$ 54,391	$54,391,359	$493,161	$54,884,520	2052	(108.31)	(6.17)	(0.05)	(123.27)	(237.80)	(18.18)	1,276.79	1,276,790
32	299.6	2053	$ -	$ -	$ 29,017	$ -	$ -	$ 2,257	$ 31,274	$31,274,000	$494,950	$31,768,950	2053	(56.08)	(5.01)	(0.03)	(65.12)	(126.23)	(18.07)	633.96	633,960
33	0.0	2054			$ -			$ -	$ -	$0	$0	$0									
		NPV	$235	$411	$385	$24	$44	$42	$1	$1,140	$7	$1,148	NPV	($827)	($65)	($1)	($434)	($1,327)	($353)		

Commercial/Industrial/Residential

Year of Program	Subscription Fee $/kW-mo	Credit cents/kWh	Credit Esc %
1	8.35	4.037	
2	8.35	4.037	0.0%
3	8.35	4.037	0.0%
4	8.35	4.098	1.5%
5	8.35	4.159	1.5%
6	8.35	4.221	1.5%
7	8.35	4.284	1.5%
8	8.35	4.348	1.5%
9	8.35	4.413	1.5%
10	8.35	4.479	1.5%
11	8.35	4.546	1.5%
12	8.35	4.614	1.5%
13	8.35	4.683	1.5%
14	8.35	4.753	1.5%
15	8.35	4.824	1.5%
16	8.35	4.896	1.5%
17	8.35	4.969	1.5%
18	8.35	5.044	1.5%
19	8.35	5.12	1.5%
20	8.35	5.197	1.5%
21	8.35	5.275	1.5%
22	8.35	5.354	1.5%
23	8.35	5.434	1.5%
24	8.35	5.516	1.5%
25	8.35	5.599	1.5%
26	8.35	5.683	1.5%
27	8.35	5.768	1.5%
28	8.35	5.855	1.5%
29	8.35	5.943	1.5%
30	8.35	6.032	1.5%
31	8.35	6.032	0.0%
32	8.35	6.032	0.0%

Low and Moderate Income (LMI)

Program Year	Subscription Fee $/kW-mo	Credit $/kW-mo
All Years	8.35	9.03

Solar and Network Capital Inputs
- Capital costs from CEC - Project Cost Forecasting (Filing).xlsx
- Includes AFUDC for 2022 assets due to 2 factor trigger being met on combined solar and network upgrades on a per project basis

O&M Inputs
- Assumptions based on similarly configured projects
- Inputs based on COD year of individual projects
- Estimates based on information provided in March 2020 request

Property Taxes
- Solar Projects use CEC - Solar Prop Tax (Filing).xlsx
- Uses average rate from SoBRA projects and applies abatement through 2037 based on COD
- Network Upgrades use standard DEF property tax assumptions based on gross book value as no abatements apply

Land Lease
- Estimated acreage based on standard configuration and layout
- Lease rates, escalation and acreage based on combination of SoBRA results and initial CEC site development
- CEC - Land Lease (Filing).xlsx

WACC, Tax and AFUDC Rates
- Derived from Standard Treasury Assumptions updated in March 2020
- AFUDC rate based on May 2020 filing
- Tax Rate based on forecasted composite rate beginning 2022

Rates	
Federal Tax Rate	21.00%
Section 199 Deduction (for generating assets)	0.00%
Effective Federal Tax Rate	21.00%
State Tax Rate	5.50%
Composite Fed and State Tax Rate	25.35%
Allowed Rate of Return Pre-Tax	8.94%
Discount Rate	6.70%

Solar - Project Specific Inputs

Project Number	1	2	3	4
Number of Projects	2	4	4	0
Project Name	DEF-CEC-2022 COD	DEF-CEC-2023 COD	DEF-CEC-2022 COD	DEF-CEC-2022 COD
Project Type	Solar PV	Solar PV	Solar PV	Solar PV
Size (MWs dc)	97.4	97.4	97.4	97.4
Size (MWs ac)	74.9	74.9	74.9	74.9
Asset life (years)	30	30	30	30
Year 1	2022	2023	2024	2025
CapEx ($000s)				
Direct Costs (solar)	$96,069	$92,199	$88,334	$0
Land	$0	$0	$0	$0
Direct Costs (transmission)	$3,060	$3,121	$3,184	$0
AFUDC (not eligible for ITC)	$3,610	$0	$0	$0
Total CapEx ($000s)	$102,738	$95,321	$91,517	$0
% eligible for ITC	96.5%	96.5%	96.5%	0.0%
Project Terminal Value				
Residual Value	-6.0%	-6.0%	-6.0%	-6.0%
Gross Residual Value (% of Construction)	($,948)	($,719)	($,491)	-
Cost of Removal less Salvage ($000s)	$5,948	$5,719	$5,491	$0
Annual Accrual ($000s)	$198.26	$190.64	$183.03	$0.00
Tax Credits				
ITC	22%	22%	10%	0%
Year Monetized	2027	2027	2027	2027
% Monetized	100%	100%	100%	100%
Portion of ITC offsetting tax basis	50%	50%	50%	50%
2nd Yr Monetized	2028	2028	2028	2028
% 2nd Yr Monetized	0%	0%	0%	0%

	Land Lease ($000s)	Land Lease Payments ($000's Nominal)	Land Lease Payments ($000's Nominal)	Land Lease Payments ($000's Nominal)	Land Lease Payments ($000's Nominal)
1		402	410	418	0
2		410	418	426	0
3		418	426	435	0
4		426	435	444	0
5		435	444	452	0
6		444	452	462	0
7		452	462	471	0
8		462	471	480	0
9		471	480	490	0
10		480	490	500	0
11		490	500	510	0
12		500	510	520	0
13		510	520	530	0
14		520	530	541	0
15		530	541	552	0
16		541	552	563	0
17		552	563	574	0
18		563	574	585	0
19		574	585	597	0
20		585	597	609	0
21		597	609	621	0
22		609	621	634	0
23		621	634	646	0
24		634	646	659	0
25		646	659	672	0
26		659	672	686	0
27		672	686	700	0
28		686	700	713	0
29		700	713	728	0
30		713	728	742	0

	O&M ($000s)	Total O&M, excl Leases ($1,000's Nominal)	Total O&M, excl Leases ($1,000's Nominal)	Total O&M, excl Leases ($1,000's Nominal)	Total O&M, excl Leases ($1,000's Nominal)
1		614	623	634	
2		623	633	643	
3		637	647	658	
4		652	662	673	
5		672	682	694	
6		739	750	762	
7		756	768	780	
8		774	786	798	
9		792	804	817	
10		816	828	841	
11		830	843	856	
12		850	862	876	
13		869	883	897	
14		932	946	960	
15		916	929	944	
16		932	946	961	
17		954	968	984	
18		976	991	1007	
19		1000	1015	1031	
20		1028	1044	1061	
21		1048	1064	1081	
22		1073	1089	1107	
23		1098	1115	1133	
24		1125	1142	1161	
25		1157	1175	1194	
26		1180	1198	1218	
27		1208	1227	1247	
28		1238	1257	1278	
29		1268	1288	1309	
30		1304	1324	1346	

	Property Taxes - ($1,000's Nominal)	Total P/T ($000s)	Total P/T ($000s)	Total P/T ($000s)	Total P/T ($000s)
1		344	320	307	-
2		334	310	297	-
3		327	303	291	-
4		316	293	282	-
5		306	284	272	-
6		295	274	263	-
7		285	264	254	-
8		274	254	244	-
9		264	245	235	-
10		250	231	222	-
11		239	222	213	-
12		225	209	200	-
13		211	196	188	-
14		197	183	175	-
15		183	170	814	-
16		169	783	751	-
17		773	717	689	-
18		685	636	610	-
19		597	554	532	-
20		527	489	470	-
21		527	489	470	-
22		457	424	407	-
23		457	424	407	-
24		404	375	360	-
25		404	375	360	-
26		369	342	329	-
27		351	326	313	-
28		351	326	313	-
29		351	326	313	-
30		351	326	313	-

Non-operating O&M ($000s)				
Property tax rate (solar)	0.00%	0.00%	0.00%	0.00%
Property tax basis reduction (solar)	0%	0%	0%	0%
Property tax rate (transmission)	0.00%	0.00%	0.00%	0.00%
Insurance rate	0.12%	0.12%	0.12%	0.12%
Insurance inflation rate	3.0%	3.0%	3.0%	3.0%

	Capital Adds & Mods - ($1,000's Nominal)	Adds&Mods ($000s)	Adds&Mods ($000s)	Adds&Mods ($000s)	Adds&Mods ($000s)
1		-	-	-	
2		-	-	-	
3		-	-	-	
4		-	-	-	
5		100	100	100	
6		49	49	49	
7		57	57	57	
8		63	63	63	
9		70	70	70	
10		176	176	176	
11		81	81	81	
12		86	86	86	
13		90	90	90	
14		93	93	93	
15		211	211	211	
16		99	99	99	
17		101	101	101	
18		102	102	102	
19		103	103	103	
20		203	203	203	
21		103	103	103	
22		102	102	102	
23		101	101	101	
24		100	100	100	
25		198	198	198	
26		96	96	96	
27		93	93	93	
28		91	91	91	
29		88	88	88	
30		185	185	185	

Rates	
Federal Tax Rate	21%
Section 199 Deduction (for generating assets)	0%
Effective Federal Tax Rate	21.00%
State Tax Rate	5.50%
Composite Fed and State Tax Rate	25.35%
Allowed Rate of Return Pre-Tax	8.94%
Discount Rate	6.70%

Network Upgrade - Project Specific Inputs

Project Number	1	2	3	4
Number of Projects	2	4	4	0
Project Name	DEF-Network upgrade - 2022	DEF-Utility Solar Site Plan - 2023	DEF-Utility Solar Site Plan - 2024	Placeholder 4
Project Type	Transmission	Solar	Solar	Solar
Size (MWs dc)	0.0	0.0	0.0	0.0
Size (MWs ac)	1.0	1.0	1.0	1.0
Asset life (years)	40	40	40	40
COD Year	2022	2023	2024	2025
CapEx ($000s)				
Direct Costs (solar)	$0	$0	$0	$0
Land	$0	$0	$0	$0
Direct Costs (transmission)	$10,200	$10,404	$10,612	$0
AFUDC (not eligible for ITC)	$371	$0	$0	$0
Total CapEx ($000s)	$10,571	$10,404	$10,612	$0
% eligible for ITC	0.0%	0.0%	0.0%	0.0%
Project Terminal Value				
Residual Value	0.0%	0.0%	0.0%	0.0%
Gross Residual Value (% of Construction)	-	-	-	-
Cost of Removal less Salvage ($000s)	$0	$0	$0	$0
Annual Accrual	$0	$0	$0	$0
Tax Credits				
ITC	0%	0%	0%	0%
Year Monetized	2027	2027	2027	2027
% Monetized	100%	100%	100%	100%
Portion of ITC offsetting tax basis	50%	50%	50%	50%
2nd Yr Monetized	2028	2028	2028	2028
% 2n Yr Monetized	0%	0%	0%	0%

Land Lease ($000s)	Land Lease Payments ($1,000's Nominal)	Land Lease Payments ($1,000's Nominal)	Land Lease Payments ($1,000's Nominal)	Land Lease Payments ($1,000's Nominal)
1				
2				
3				
4				
5				
6				
7				
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36				
37				
38				
39				
40				

O&M ($000s)	O&M ($1,000's Nominal)	O&M ($1,000's Nominal)	O&M ($1,000's Nominal)	O&M ($1,000's Nominal)
1				
2				
3				
4				
5				
6				
7				
8				
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33				
34				
35				
36				
37				
38				
39				
40				
Non-operating O&M ($000s)				
Property tax rate (solar)	0.00%	0.00%	0.00%	0.00%
Property tax basis reduction (solar)	0%	0%	0%	0%
Property tax rate (transmission)	0.78%	0.78%	0.78%	0.78%
Insurance rate	0.12%	0.12%	0.12%	0.12%
Insurance inflation rate	3.0%	3.0%	3.0%	3.0%

Capital Adds & Mods - ($1,000's Nominal)				
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	-	-	-	-
5	-	-	-	-
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-
9	-	-	-	-
10	-	-	-	-
11	-	-	-	-
12	-	-	-	-
13	-	-	-	-
14	-	-	-	-
15	-	-	-	-
16	-	-	-	-
17	-	-	-	-
18	-	-	-	-
19	-	-	-	-
20	-	-	-	-
21	-	-	-	-
22	-	-	-	-
23	-	-	-	-
24	-	-	-	-
25	-	-	-	-
26	-	-	-	-
27	-	-	-	-
28	-	-	-	-
29	-	-	-	-
30	-	-	-	-
31	-	-	-	-
32	-	-	-	-
33	-	-	-	-
34	-	-	-	-
35	-	-	-	-
36	-	-	-	-
37	-	-	-	-
38	-	-	-	-
39	-	-	-	-
40	-	-	-	-

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
1	*($ in thousands)*																																
2																																	
3	Summary of Inputs																																
4	Year 1	2022																															
5	Investment	102,738																															
6	Investment (Non-AFUDC)	99,129																															
7	Investment (AFUDC)	3,610																															
8	ITC eligible basis	99,142																															
9	Federal ITC	21,811																															
10	Useful life (years)	30																															
11	# of years		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
12	Year		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	
13	Gross Plant- Initial Capital		102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	102,738	
14	Cumulative Adds & Mods		-	-	-	-	100	149	206	269	339	515	596	681	771	864	1,076	1,174	1,275	1,377	1,480	1,682	1,785	1,887	1,988	2,088	2,285	2,381	2,474	2,565	2,654	2,839	
15	Gross Plant		102,738	102,738	102,738	102,738	102,838	102,887	102,944	103,007	103,077	103,253	103,334	103,419	103,509	103,603	103,814	103,913	104,013	104,115	104,218	104,421	104,523	104,625	104,726	104,826	105,023	105,119	105,212	105,303	105,392	105,577	
16	Annual Depreciation		(3,425)	(3,425)	(3,425)	(3,425)	(3,428)	(3,430)	(3,431)	(3,434)	(3,436)	(3,442)	(3,444)	(3,447)	(3,450)	(3,453)	(3,460)	(3,464)	(3,467)	(3,471)	(3,474)	(3,481)	(3,484)	(3,488)	(3,491)	(3,494)	(3,501)	(3,504)	(3,507)	(3,510)	(3,513)	(5,175)	
17	Accumulated Depreciation		(3,425)	(6,849)	(10,274)	(13,698)	(17,126)	(20,556)	(23,987)	(27,421)	(30,857)	(34,299)	(37,743)	(41,190)	(44,641)	(48,094)	(51,555)	(55,018)	(58,485)	(61,956)	(65,430)	(68,911)	(72,395)	(75,882)	(79,373)	(82,867)	(86,368)	(89,872)	(93,379)	(96,889)	(100,402)	(105,577)	
18	Cost of Removal/Salvage Accrual		(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	
19	Cost of Removal/Salvage Realization		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,948	
20	Accumulated Cost of Removal/Salvage Accrual		(198)	(397)	(595)	(793)	(991)	(1,190)	(1,388)	(1,586)	(1,784)	(1,983)	(2,181)	(2,379)	(2,577)	(2,776)	(2,974)	(3,172)	(3,370)	(3,569)	(3,767)	(3,965)	(4,163)	(4,362)	(4,560)	(4,758)	(4,956)	(5,155)	(5,353)	(5,551)	(5,749)	-	
21	Accumulated Deferred Taxes		(3,493)	(9,575)	(12,935)	(14,659)	(16,378)	(16,872)	(16,141)	(15,408)	(14,675)	(13,944)	(13,216)	(12,486)	(11,756)	(11,027)	(10,299)	(9,563)	(8,815)	(8,066)	(7,318)	(6,570)	(5,805)	(5,021)	(4,236)	(3,450)	(2,664)	(1,879)	(1,092)	(303)	487	0	
22	Rate Base		95,622	85,917	78,935	73,588	68,342	64,269	61,427	58,593	55,761	53,027	50,194	47,364	44,535	41,706	38,987	36,160	33,342	30,524	27,703	24,975	22,160	19,360	16,558	13,750	11,035	8,213	5,389	2,560	(273)	0	
23																																	
24	WACC Revenue Requirement on Rate Base	8.94%	8,867	8,115	7,369	6,818	6,344	5,928	5,619	5,365	5,112	4,863	4,614	4,361	4,108	3,855	3,607	3,359	3,107	2,855	2,603	2,355	2,107	1,856	1,606	1,355	1,108	860	608	355	102	(12)	
25	Federal ITC Amortization		-	-	-	-	-	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	
26	Gross-up on Federal ITC Amortization		-	-	-	-	-	(296)	(296)	(296)	(296)	(296)	(296)	(296)	(296)	(296)	(296)	(296)	(296)	(296)	(296)	(296)	(296)	(296)	(296)	(296)	(296)	(296)	(296)	(296)	(296)	(296)	
27	Gross-up on Book/Tax SL depreciation Difference		164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	164	
28	Depreciation Expense		3,425	3,425	3,425	3,425	3,428	3,430	3,431	3,434	3,436	3,442	3,444	3,447	3,450	3,453	3,460	3,464	3,467	3,471	3,474	3,481	3,484	3,488	3,491	3,494	3,501	3,504	3,507	3,510	3,513	5,175	
29	Cost of Removal/Salvage Accrual		198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	
30	O&M - operating		614	623	637	652	672	739	756	774	792	816	830	850	869	932	916	932	954	976	1,000	1,028	1,048	1,073	1,098	1,125	1,157	1,180	1,208	1,238	1,268	1,304	
31	Lease expense		402	410	418	426	435	444	452	462	471	480	490	500	510	520	530	541	552	563	574	585	597	609	621	634	646	659	672	686	700	713	
32	Property Taxes		344	334	327	316	306	295	285	274	264	250	239	225	211	197	183	169	773	685	597	527	527	457	457	404	404	369	351	351	351	351	
33	Insurance		125	129	133	137	141	145	150	154	159	164	169	174	180	185	191	197	203	210	216	223	230	237	244	252	260	268	276	285	294	303	
34	Sum of Revenue Requirements ($000)		$14,139	$13,397	$12,671	$12,136	$11,688	$10,174	$9,887	$9,656	$9,427	$9,208	$8,980	$8,750	$8,522	$8,336	$8,081	$7,855	$8,250	$7,953	$7,657	$7,393	$7,186	$6,913	$6,711	$6,457	$6,270	$6,034	$5,817	$5,619	$5,422	$7,028	
35	NPV of Revenue Requirements	125,499																															
36	Levelized Revenue Requirement	125,499	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	9,810	
37																																	
38	Deferred Income Tax Calculation																																
39	Book Basis		99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	99,129	
40	Federal ITC Basis Reduction		(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	(10,906)	
41	Land		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
42	Tax Basis		88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	88,223	
43	Tax Accelerated Depreciation	91,062	16,923	27,135	16,395	9,941	9,926	5,095	261	254	259	273	284	283	285	289	303	273	231	232	235	245	181	107	106	108	116	120	115	112	111	863	
44	Tax Straight Line Depreciation	91,062	2,941	2,941	2,941	2,941	2,944	2,946	2,948	2,950	2,952	2,958	2,961	2,963	2,966	2,970	2,977	2,980	2,983	2,987	2,990	2,997	3,000	3,004	3,007	3,010	3,017	3,020	3,023	3,026	3,029	4,691	
45	Difference	(0)	13,982	24,195	13,454	7,000	6,982	2,149	(2,686)	(2,696)	(2,693)	(2,685)	(2,677)	(2,680)	(2,681)	(2,680)	(2,673)	(2,707)	(2,752)	(2,755)	(2,755)	(2,751)	(2,819)	(2,897)	(2,901)	(2,902)	(2,901)	(2,900)	(2,908)	(2,915)	(2,918)	(3,828)	
46	Tax Effect of Difference (Deferred tax)	**(0)**	3,544	6,132	3,410	1,774	1,769	545	(681)	(683)	(683)	(680)	(678)	(679)	(680)	(679)	(678)	(686)	(697)	(698)	(698)	(697)	(715)	(734)	(735)	(736)	(735)	(735)	(737)	(739)	(740)	(970)	
47	Tax Effect of Cost of Removal/Salvage	5,948	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,948	
48	Book Effect of Cost of Removal/Salvage	5,948	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	198	
49	Difference	-	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	(198)	
50	Tax Effect of Difference (Deferred tax)	-	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	(50)	1,457	
51	Total Deferred Tax	(0)	3,493	6,082	3,360	1,724	1,719	494	(731)	(733)	(733)	(731)	(729)	(730)	(730)	(730)	(728)	(736)	(748)	(749)	(749)	(748)	(765)	(784)	(785)	(786)	(785)	(785)	(787)	(789)	(790)	487	
52	Accumulated Deferred Taxes		3,493	9,575	12,935	14,659	16,378	16,872	16,141	15,408	14,675	13,944	13,216	12,486	11,756	11,027	10,299	9,563	8,815	8,066	7,318	6,570	5,805	5,021	4,236	3,450	2,664	1,879	1,092	303	(487)	(0)	
53																																	
54																																	
55																																	
56	Insurance Expense ($000s)																																
57	Insurance - base rate (% of Plant)	0.12%																															
58	Insurance - inflation rate	3.0%																															
59	Insurance Expense ($000s)		125	129	133	137	141	145	150	154	159	164	169	174	180	185	191	197	203	210	216	223	230	237	244	252	260	268	276	285	294	303	
60																																	
61																																	
62																																	
63																																	

Federal Tax Depreciation	
Capital Expenditures	102,738
Capital Expenditures - Solar	96,069
Capital Expenditures - Transmission	3,060
ITC Eligible Amount	99,142
ITC	21,811
Portion of ITC offsetting tax basis	10,906
Less land	-
Tax Basis	88,223
Asset useful life	30

MACRS Schedule - Initial Investment

Distribution	Year	5-yr	7-yr	15-yr	20-yr	39-yr	Composite	Fed Tax Deprec
		94.85%	**0.00%**	**1.53%**	**3.62%**	**0.00%**	100.00%	
2022	1	**20.00%**	**14.29%**	**5.00%**	**3.75%**	**0.11%**	19.1817%	16,923
2023	2	**32.00%**	**24.49%**	**9.50%**	**7.22%**	**2.56%**	30.7578%	27,135
2024	3	**19.20%**	**17.49%**	**8.55%**	**6.68%**	**2.56%**	18.5832%	16,395
2025	4	**11.52%**	**12.49%**	**7.70%**	**6.18%**	**2.56%**	11.2679%	9,941
2026	5	**11.52%**	**8.93%**	**6.93%**	**5.71%**	**2.56%**	11.2393%	9,916
2027	6	**5.76%**	**8.92%**	**6.23%**	**5.29%**	**2.56%**	5.7499%	5,073
2028	7	**0.00%**	**8.93%**	**5.90%**	**4.89%**	**2.56%**	0.2673%	236
2029	8	**0.00%**	**4.46%**	**5.90%**	**4.52%**	**2.56%**	0.2540%	224
2030	9	**0.00%**	**0.00%**	**5.91%**	**4.46%**	**2.56%**	0.2519%	222
2031	10	**0.00%**	**0.00%**	**5.90%**	**4.46%**	**2.56%**	0.2517%	222
2032	11	**0.00%**	**0.00%**	**5.91%**	**4.46%**	**2.56%**	0.2519%	222
2033	12	**0.00%**	**0.00%**	**5.90%**	**4.46%**	**2.56%**	0.2517%	222
2034	13	**0.00%**	**0.00%**	**5.91%**	**4.46%**	**2.56%**	0.2519%	222
2035	14	**0.00%**	**0.00%**	**5.90%**	**4.46%**	**2.56%**	0.2517%	222
2036	15	**0.00%**	**0.00%**	**5.91%**	**4.46%**	**2.56%**	0.2519%	222
2037	16	**0.00%**	**0.00%**	**2.95%**	**4.46%**	**2.56%**	0.2067%	182

MACRS Schedule - Adds & Mods

Year	5-yr	7-yr	15-yr	20-yr	39-yr	Composite
	37.82%	**0.00%**	**10.65%**	**51.53%**	**0.00%**	100.00%
1	**20.00%**	**14.29%**	**5.00%**	**3.75%**	**0.11%**	10.0286%
2	**32.00%**	**24.49%**	**9.50%**	**7.22%**	**2.56%**	16.8337%
3	**19.20%**	**17.49%**	**8.55%**	**6.68%**	**2.56%**	11.6124%
4	**11.52%**	**12.49%**	**7.70%**	**6.18%**	**2.56%**	8.3598%
5	**11.52%**	**8.93%**	**6.93%**	**5.71%**	**2.56%**	8.0387%
6	**5.76%**	**8.92%**	**6.23%**	**5.29%**	**2.56%**	5.5653%
7	**0.00%**	**8.93%**	**5.90%**	**4.89%**	**2.56%**	3.1472%
8	**0.00%**	**4.46%**	**5.90%**	**4.52%**	**2.56%**	2.9586%
9	**0.00%**	**0.00%**	**5.91%**	**4.46%**	**2.56%**	2.9287%
10	**0.00%**	**0.00%**	**5.90%**	**4.46%**	**2.56%**	2.9271%
11	**0.00%**	**0.00%**	**5.91%**	**4.46%**	**2.56%**	2.9287%
12	**0.00%**	**0.00%**	**5.90%**	**4.46%**	**2.56%**	2.9271%
13	**0.00%**	**0.00%**	**5.91%**	**4.46%**	**2.56%**	2.9287%
14	**0.00%**	**0.00%**	**5.90%**	**4.46%**	**2.56%**	2.9271%
15	**0.00%**	**0.00%**	**5.91%**	**4.46%**	**2.56%**	2.9287%
16	**0.00%**	**0.00%**	**2.95%**	**4.46%**	**2.56%**	2.6130%

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
84					2038	17	0.00%	0.00%	0.00%	4.46%	2.56%	0.1618%	143		17	0.00%	0.00%	0.00%	4.46%	2.56%	2.2994%
85					2039	18	0.00%	0.00%	0.00%	4.46%	2.56%	0.1617%	143		18	0.00%	0.00%	0.00%	4.46%	2.56%	2.2989%
86					2040	19	0.00%	0.00%	0.00%	4.46%	2.56%	0.1618%	143		19	0.00%	0.00%	0.00%	4.46%	2.56%	2.2994%
87					2041	20	0.00%	0.00%	0.00%	4.46%	2.56%	0.1617%	143		20	0.00%	0.00%	0.00%	4.46%	2.56%	2.2989%
88					2042	21	0.00%	0.00%	0.00%	2.23%	2.56%	0.0809%	71		21	0.00%	0.00%	0.00%	2.23%	2.56%	1.1497%
89					2043	22	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		22	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
90					2044	23	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		23	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
91					2045	24	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		24	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
92					2046	25	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		25	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
93					2047	26	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		26	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
94					2048	27	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		27	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
95					2049	28	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		28	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
96					2050	29	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		29	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
97					2051	30	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		30	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
98					2052	31	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		31	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
99					2053	32	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		32	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
100					2054	33	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		33	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
101					2055	34	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		34	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
102					2056	35	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		35	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
103					2057	36	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		36	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
104					2058	37	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		37	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
105					2059	38	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		38	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
106					2060	39	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		39	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
107					2061	40	0.00%	0.00%	0.00%	0.00%	2.46%	0.0001%	0		40	0.00%	0.00%	0.00%	0.00%	2.46%	0.0000%
108						Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	88,223		Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
109																					
110				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
111	Tax Depreciation	Year		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039
112																					
113	Initial Investment	88,223		16,923	27,135	16,395	9,941	9,916	5,073	236	224	222	222	222	222	222	222	222	182	143	143
114																					
115	Adds & Mods																				
116	Vintage	Capex																			
117	2022	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
118	2023	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
119	2024	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
120	2025	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
121	2026	100		-	-	-	-	10	17	12	8	8	6	3	3	3	3	3	3	3	3
122	2027	49		-	-	-	-	-	5	8	6	4	4	3	2	1	1	1	1	1	1
123	2028	57		-	-	-	-	-	-	6	10	7	5	5	3	2	2	2	2	2	2
124	2029	63		-	-	-	-	-	-	-	6	11	7	5	5	4	2	2	2	2	2
125	2030	70		-	-	-	-	-	-	-	-	7	12	8	6	6	4	2	2	2	2
126	2031	176		-	-	-	-	-	-	-	-	-	18	30	20	15	14	10	6	5	5
127	2032	81		-	-	-	-	-	-	-	-	-	-	8	14	9	7	7	5	3	2
128	2033	86		-	-	-	-	-	-	-	-	-	-	-	9	14	10	7	7	5	3
129	2034	90		-	-	-	-	-	-	-	-	-	-	-	-	9	15	10	8	7	5
130	2035	93		-	-	-	-	-	-	-	-	-	-	-	-	-	9	16	11	8	8
131	2036	211		-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	36	25	18
132	2037	99		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	17	11
133	2038	101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	17
134	2039	102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10
135	2040	103		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
136	2041	203		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
137	2042	103		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
138	2043	102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
139	2044	101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
140	2045	100		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
141	2046	198		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
142	2047	96		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
143	2048	93		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
144	2049	91		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
145	2050	88		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
146	2051	185		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
147																					
148	Total Fed tax depreciation	91,062		16,923	27,135	16,395	9,941	9,926	5,095	261	254	259	273	284	283	285	289	303	273	231	232
149																					
150	Property Tax																				
151	Property tax rate offset (generation)	0%																			
152	Property tax rate (generation)	0.00%																			
153	Book Value	99,678																			
154	Initial Investment			99,678	99,678	99,678	99,678	99,678	99,678	99,678	99,678	99,678	99,678	99,678	99,678	99,678	99,678	99,678	99,678	99,678	99,678
155	Cumulative Additions			-	-	-	-	100	149	206	269	339	515	596	681	771	864	1,076	1,174	1,275	1,377
156	Taxable Book Value			99,678	99,678	99,678	99,678	99,778	99,827	99,884	99,947	100,017	100,193	100,274	100,359	100,449	100,543	100,754	100,853	100,953	101,055
157	Annual Property Tax Expense (generation)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
158																					
159	Property tax rate (transmission)	0.000%		(average rate developed based on original cost)																	
160	Book Value	3,060																			
161	Initial Investment			3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060
162	Taxable Book Value			3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060
163	Annual Property Tax Expense (transmission)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
164																					
165	Tax Straight Line Depreciation																				
166	Vintage	Tax Basis																			

	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
84												
85												
86												
87												
88												
89												
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96												
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98												
99												
100												
101												
102												
103												
104												
105												
106												
107												
108												
109												
110	19	20	21	22	23	24	25	26	27	28	29	30
111	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051
112												
113	143	143	71	0	0	0	0	0	0	0	0	1
114												
115												
116												
117	-	-	-	-	-	-	-	-	-	-	-	-
118	-	-	-	-	-	-	-	-	-	-	-	-
119	-	-	-	-	-	-	-	-	-	-	-	-
120	-	-	-	-	-	-	-	-	-	-	-	-
121	3	3	2	2	2	2	1	-	-	-	-	(0)
122	1	1	1	1	1	1	1	1	-	-	-	0
123	2	2	2	1	1	1	1	1	1	-	-	0
124	2	2	2	2	1	1	1	1	1	1	-	0
125	2	2	2	2	2	2	2	2	2	2	1	-
126	5	5	5	5	5	5	4	4	4	4	2	
127	3	2	2	2	2	2	2	2	2	2	3	
128	3	3	3	3	3	3	3	3	2	2	2	5
129	7	3	3	3	3	3	3	3	3	2	2	7
130	8	5	3	3	3	3	3	3	3	3	2	10
131	18	17	12	7	6	6	6	6	6	6	6	27
132	11	8	8	5	3	3	3	3	3	3	3	16
133	17	12	8	8	6	3	3	3	3	3	3	19
134	10	17	12	9	8	6	3	3	3	3	3	22
135	-	10	17	12	9	8	6	3	3	3	3	25
136	-	-	20	34	24	17	16	11	6	6	6	56
137	-	-	-	10	17	12	9	8	6	3	3	31
138	-	-	-	-	10	17	12	9	8	6	3	34
139	-	-	-	-	-	10	17	12	8	8	6	37
140	-	-	-	-	-	-	10	17	12	8	8	39
141	-	-	-	-	-	-	-	20	33	23	17	16
142	-	-	-	-	-	-	-	-	10	16	11	8
143	-	-	-	-	-	-	-	-	-	9	16	11
144	-	-	-	-	-	-	-	-	-	-	9	15
145	-	-	-	-	-	-	-	-	-	-	-	9
146	-	-	-	-	-	-	-	-	-	-	-	-
147												
148	235	245	181	107	106	108	116	120	115	112	111	863
149												
150												
151												
152												
153												
154	99,678	99,678	99,678	99,678	99,678	99,678	99,678	99,678	99,678	99,678	99,678	99,678
155	1,480	1,682	1,785	1,887	1,988	2,088	2,285	2,381	2,474	2,565	2,654	2,839
156	101,158	101,361	101,463	101,565	101,666	101,766	101,963	102,059	102,152	102,243	102,332	102,517
157	-	-	-	-	-	-	-	-	-	-	-	-
158												
159												
160												
161	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060
162	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060	3,060
163	-	-	-	-	-	-	-	-	-	-	-	-
164												
165												
166												

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
167	2022	88,223		2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941	2,941
168	2023	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
169	2024	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
170	2025	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
171	2026	100		-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	17
172	2027	49		-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	10
173	2028	57		-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	13
174	2029	63		-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	17
175	2030	70		-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	21
176	2031	176		-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	59
177	2032	81		-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	30
178	2033	86		-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	34
179	2034	90		-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	39
180	2035	93		-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	44
181	2036	211		-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	106
182	2037	99		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	53
183	2038	101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	57
184	2039	102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	61
185	2040	103		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	65
186	2041	203		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	7	7	7	7	7	7	7	7	7	135
187	2042	103		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	72
188	2043	102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	75
189	2044	101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	77
190	2045	100		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	80
191	2046	198		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	7	7	7	7	165
192	2047	96		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	83
193	2048	93		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	84
194	2049	91		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	85
195	2050	88		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	85
196	2051	185		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	185
197	Total Tax Straight Line Depreciation	91,062		2,941	2,941	2,941	2,941	2,944	2,946	2,948	2,950	2,952	2,958	2,961	2,963	2,966	2,970	2,977	2,980	2,983	2,987	2,990	2,997	3,000	3,004	3,007	3,010	3,017	3,020	3,023	3,026	3,029	4,691
198																																	
199																																	
200																																	

201	Year of monetization	2027	2028
202	% monetized	100%	0%
203	ITC	21,811	-
204	Asset useful life	30	30
205	# of years w/out fed tax appetite	5	6
206	# of years to amortize ITC	25	24
207	Annual ITC amortization	872	-

208																																	
209	Year Number		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
210	Year		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	
211	1st Year ITC Amortization schedule	-	-	-	-	-	-	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	
212	1st Year Annual ITC	-	-	-	-	-	-	21,811	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
213	1st Year 1/2 of ITC	-	-	-	-	-	-	10,906	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
214																																		
215	2nd Year ITC Amortization schedule		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
216	2nd Year Annual ITC		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
217	2nd Year 1/2 of ITC		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
218																																		
219	Total ITC Amortization schedule	-	-	-	-	-	-	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	872	
220	Total Annual ITC	-	-	-	-	-	-	21,811	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
221	Cumulative ITC	-	-	-	-	-	-	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	
222	Total 1/2 of ITC	-	-	-	-	-	-	10,906	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
223																																		
224	ITC	-	-	-	-	-	-	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	21,811	
225	ITC Amortization	-	-	-	-	-	-	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	(872)	
226	Accumulated ITC Amortization	-	-	-	-	-	-	(872)	(1,745)	(2,617)	(3,490)	(4,362)	(5,235)	(6,107)	(6,980)	(7,852)	(8,725)	(9,597)	(10,469)	(11,342)	(12,214)	(13,087)	(13,959)	(14,832)	(15,704)	(16,577)	(17,449)	(18,321)	(19,194)	(20,066)	(20,939)	(21,811)		
227	Unamortized ITC	-	-	-	-	-	-	20,939	20,066	19,194	18,321	17,449	16,577	15,704	14,832	13,959	13,087	12,214	11,342	10,469	9,597	8,725	7,852	6,980	6,107	5,235	4,362	3,490	2,617	1,745	872	-		

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
1	*($ in thousands)*																																
2																																	
3	Summary of Inputs																																
4	Year 1	2023																															
5	Investment	95,321																															
6	Investment (Non-AFUDC)	95,321																															
7	Investment (AFUDC)	-																															
8	ITC eligible basis	91,984																															
9	Federal ITC	20,237																															
10	Useful life (years)	30																															
11	# of years		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
12	Year		2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	
13	Gross Plant- Initial Capital		95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	
14	Cumulative Adds & Mods		-	-	-	-	100	149	206	269	339	515	596	681	771	864	1,076	1,174	1,275	1,377	1,480	1,682	1,785	1,887	1,988	2,088	2,285	2,381	2,474	2,565	2,654	2,839	
15	Gross Plant		95,321	95,321	95,321	95,321	95,421	95,470	95,527	95,590	95,660	95,835	95,916	96,002	96,092	96,185	96,396	96,495	96,596	96,698	96,800	97,003	97,106	97,208	97,309	97,408	97,606	97,702	97,795	97,886	97,974	98,160	
16	Annual Depreciation		(3,177)	(3,177)	(3,177)	(3,177)	(3,181)	(3,182)	(3,184)	(3,186)	(3,189)	(3,195)	(3,197)	(3,200)	(3,203)	(3,206)	(3,213)	(3,217)	(3,220)	(3,223)	(3,227)	(3,233)	(3,237)	(3,240)	(3,244)	(3,247)	(3,254)	(3,257)	(3,260)	(3,263)	(3,266)	(4,928)	
17	Accumulated Depreciation		(3,177)	(6,355)	(9,532)	(12,709)	(15,890)	(19,072)	(22,257)	(25,443)	(28,632)	(31,826)	(35,023)	(38,223)	(41,426)	(44,633)	(47,846)	(51,062)	(54,282)	(57,505)	(60,732)	(63,966)	(67,202)	(70,443)	(73,686)	(76,933)	(80,187)	(83,443)	(86,703)	(89,966)	(93,232)	(98,160)	
18	Cost of Removal/Salvage Accrual		(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	
19	Cost of Removal/Salvage Realization		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,719	
20	Accumulated Cost of Removal/Salvage Accrual		(191)	(381)	(572)	(763)	(953)	(1,144)	(1,334)	(1,525)	(1,716)	(1,906)	(2,097)	(2,288)	(2,478)	(2,669)	(2,860)	(3,050)	(3,241)	(3,432)	(3,622)	(3,813)	(4,003)	(4,194)	(4,385)	(4,575)	(4,766)	(4,957)	(5,147)	(5,338)	(5,529)	-	
21	Accumulated Deferred Taxes		(3,368)	(9,232)	(12,472)	(14,134)	(15,793)	(16,270)	(15,567)	(14,860)	(14,155)	(13,451)	(12,750)	(12,048)	(11,345)	(10,643)	(9,942)	(9,234)	(8,514)	(7,793)	(7,073)	(6,353)	(5,616)	(4,859)	(4,101)	(3,343)	(2,585)	(1,827)	(1,067)	(306)	457	(0)	
22	Rate Base		88,585	79,353	72,745	67,714	62,784	58,983	56,369	53,761	51,157	48,651	46,046	43,443	40,842	38,241	35,749	33,149	30,559	27,967	25,373	22,871	20,283	17,711	15,136	12,556	10,068	7,474	4,877	2,276	(330)	(0)	
23																																	
24	WACC Revenue Requirement on Rate Base	8.94%	8,221	7,507	6,799	6,279	5,833	5,443	5,156	4,923	4,690	4,461	4,233	4,000	3,768	3,535	3,307	3,080	2,848	2,616	2,384	2,157	1,929	1,698	1,468	1,238	1,011	784	552	320	87	(15)	
25	Federal ITC Amortization		-	-	-	-	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	
26	Gross-up on Federal ITC Amortization		-	-	-	-	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	
27	Gross-up on Book/Tax SL depreciation Difference		115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	115	
28	Depreciation Expense		3,177	3,177	3,177	3,177	3,181	3,182	3,184	3,186	3,189	3,195	3,197	3,200	3,203	3,206	3,213	3,217	3,220	3,223	3,227	3,233	3,237	3,240	3,244	3,247	3,254	3,257	3,260	3,263	3,266	4,928	
29	Cost of Removal/Salvage Accrual		191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	
30	O&M - operating		623	633	647	662	682	750	768	786	804	828	843	862	883	946	929	946	968	991	1,015	1,044	1,064	1,089	1,115	1,142	1,175	1,198	1,227	1,257	1,288	1,324	
31	Lease expense		410	418	426	435	444	452	462	471	480	490	500	510	520	530	541	552	563	574	585	597	609	621	634	646	659	672	686	700	713	728	
32	Property Taxes		320	310	303	293	284	274	264	254	245	231	222	209	196	183	170	783	717	636	554	489	489	424	424	375	375	342	326	326	326	326	
33	Insurance		116	120	123	127	131	135	139	143	148	152	157	162	167	172	178	183	189	195	201	207	214	220	227	234	242	249	257	265	273	282	
34	Sum of Revenue Requirements ($000)		$13,172	$12,469	$11,781	$11,278	$9,817	$9,499	$9,235	$9,026	$8,818	$8,620	$8,414	$8,205	$7,998	$7,834	$7,600	$8,022	$7,767	$7,498	$7,229	$6,990	$6,804	$6,556	$6,374	$6,145	$5,978	$5,765	$5,570	$5,392	$5,216	$6,835	
35	NPV of Revenue Requirements	116,949																															
36	Levelized Revenue Requirement	116,949	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	9,142	
37																																	
38	Deferred Income Tax Calculation																																
39	Book Basis		95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	95,321	
40	Federal ITC Basis Reduction		(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	(10,118)	
41	Land		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
42	Tax Basis		85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	85,202	
43	Tax Accelerated Depreciation	88,041	16,318	26,168	15,814	9,592	9,577	4,920	261	253	258	272	283	283	284	289	302	274	234	234	237	248	182	107	106	108	116	120	115	112	111	863	
44	Tax Straight Line Depreciation	88,041	2,840	2,840	2,840	2,840	2,843	2,845	2,847	2,849	2,851	2,857	2,860	2,863	2,866	2,869	2,876	2,879	2,883	2,886	2,889	2,896	2,900	2,903	2,906	2,910	2,916	2,919	2,923	2,926	2,929	4,590	
45	Difference	0	13,478	23,328	12,974	6,752	6,734	2,075	(2,586)	(2,596)	(2,593)	(2,585)	(2,577)	(2,580)	(2,581)	(2,580)	(2,573)	(2,605)	(2,649)	(2,652)	(2,652)	(2,648)	(2,717)	(2,796)	(2,800)	(2,802)	(2,800)	(2,799)	(2,807)	(2,814)	(2,818)	(3,727)	
46	Tax Effect of Difference (Deferred tax)	**0**	3,416	5,912	3,288	1,711	1,707	526	(655)	(658)	(657)	(655)	(653)	(654)	(654)	(654)	(652)	(660)	(671)	(672)	(672)	(671)	(689)	(709)	(710)	(710)	(710)	(709)	(712)	(713)	(714)	(945)	
47	Tax Effect of Cost of Removal/Salvage	5,719	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,719	
48	Book Effect of Cost of Removal/Salvage	5,719	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	191	
49	Difference	-	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	(191)	5,529	
50	Tax Effect of Difference (Deferred tax)	-	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	(48)	1,401	
51	Total Deferred Tax	0	3,368	5,864	3,240	1,663	1,658	478	(704)	(706)	(706)	(703)	(701)	(702)	(703)	(702)	(701)	(709)	(720)	(721)	(720)	(720)	(737)	(757)	(758)	(758)	(758)	(758)	(760)	(762)	(762)	457	
52	Accumulated Deferred Taxes		3,368	9,232	12,472	14,134	15,793	16,270	15,567	14,860	14,155	13,451	12,750	12,048	11,345	10,643	9,942	9,234	8,514	7,793	7,073	6,353	5,616	4,859	4,101	3,343	2,585	1,827	1,067	306	(457)	0	
53																																	
54																																	
55																																	
56	Insurance Expense ($000s)																																
57	Insurance - base rate (% of Plant)	0.12%																															
58	Insurance - inflation rate	3.0%																															
59	Insurance Expense ($000s)		116	120	123	127	131	135	139	143	148	152	157	162	167	172	178	183	189	195	201	207	214	220	227	234	242	249	257	265	273	282	
60																																	
61																																	
62																																	
63																																	

64	Federal Tax Depreciation	
65	Capital Expenditures	95,321
66	Capital Expenditures - Solar	92,199
67	Capital Expenditures - Transmission	3,121
68	ITC Eligible Amount	91,984
69	ITC	20,236.56
70	Portion of ITC offsetting tax basis	10,118
71	Less land	-
72	Tax Basis	85,202
73		
74		
75	Asset useful life	30

MACRS Schedule - Initial Investment

Distribution	Year	5-yr	7-yr	15-yr	20-yr	39-yr	Composite	Fed Tax Deprec
		94.66%	**0.00%**	**1.52%**	**3.81%**	**0.00%**	100.00%	
2023	1	**20.00%**	**14.29%**	**5.00%**	**3.75%**	**0.11%**	19.1518%	16,318
2024	2	**32.00%**	**24.49%**	**9.50%**	**7.22%**	**2.56%**	30.7123%	26,168
2025	3	**19.20%**	**17.49%**	**8.55%**	**6.68%**	**2.56%**	18.5602%	15,814
2026	4	**11.52%**	**12.49%**	**7.70%**	**6.18%**	**2.56%**	11.2580%	9,592
2027	5	**11.52%**	**8.93%**	**6.93%**	**5.71%**	**2.56%**	11.2286%	9,567
2028	6	**5.76%**	**8.92%**	**6.23%**	**5.29%**	**2.56%**	5.7490%	4,898
2029	7	**0.00%**	**8.93%**	**5.90%**	**4.89%**	**2.56%**	0.2762%	235
2030	8	**0.00%**	**4.46%**	**5.90%**	**4.52%**	**2.56%**	0.2622%	223
2031	9	**0.00%**	**0.00%**	**5.91%**	**4.46%**	**2.56%**	0.2601%	222
2032	10	**0.00%**	**0.00%**	**5.90%**	**4.46%**	**2.56%**	0.2599%	221
2033	11	**0.00%**	**0.00%**	**5.91%**	**4.46%**	**2.56%**	0.2601%	222
2034	12	**0.00%**	**0.00%**	**5.90%**	**4.46%**	**2.56%**	0.2599%	221
2035	13	**0.00%**	**0.00%**	**5.91%**	**4.46%**	**2.56%**	0.2601%	222
2036	14	**0.00%**	**0.00%**	**5.90%**	**4.46%**	**2.56%**	0.2599%	221

MACRS Schedule - Adds & Mods

Year	5-yr	7-yr	15-yr	20-yr	39-yr	Composite
	37.82%	**0.00%**	**10.65%**	**51.53%**	**0.00%**	100.00%
1	**20.00%**	**14.29%**	**5.00%**	**3.75%**	**0.11%**	10.0286%
2	**32.00%**	**24.49%**	**9.50%**	**7.22%**	**2.56%**	16.8337%
3	**19.20%**	**17.49%**	**8.55%**	**6.68%**	**2.56%**	11.6124%
4	**11.52%**	**12.49%**	**7.70%**	**6.18%**	**2.56%**	8.3598%
5	**11.52%**	**8.93%**	**6.93%**	**5.71%**	**2.56%**	8.0387%
6	**5.76%**	**8.92%**	**6.23%**	**5.29%**	**2.56%**	5.5653%
7	**0.00%**	**8.93%**	**5.90%**	**4.89%**	**2.56%**	3.1472%
8	**0.00%**	**4.46%**	**5.90%**	**4.52%**	**2.56%**	2.9586%
9	**0.00%**	**0.00%**	**5.91%**	**4.46%**	**2.56%**	2.9287%
10	**0.00%**	**0.00%**	**5.90%**	**4.46%**	**2.56%**	2.9271%
11	**0.00%**	**0.00%**	**5.91%**	**4.46%**	**2.56%**	2.9287%
12	**0.00%**	**0.00%**	**5.90%**	**4.46%**	**2.56%**	2.9271%
13	**0.00%**	**0.00%**	**5.91%**	**4.46%**	**2.56%**	2.9287%
14	**0.00%**	**0.00%**	**5.90%**	**4.46%**	**2.56%**	2.9271%

| | | |

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
163	Annual Property Tax Expense (transmission)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
164																																	
165	Tax Straight Line Depreciation																																
166	Vintage	Tax Basis																															
167	2023	85,202		2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840	2,840
168	2024	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
169	2025	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
170	2026	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
171	2027	100		-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	17
172	2028	49		-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	10
173	2029	57		-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	13
174	2030	63		-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	17
175	2031	70		-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	21
176	2032	176		-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	59
177	2033	81		-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	30
178	2034	86		-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	34
179	2035	90		-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	39
180	2036	93		-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	44
181	2037	211		-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	106
182	2038	99		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	53
183	2039	101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	57
184	2040	102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	61
185	2041	103		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	65
186	2042	203		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	7	7	7	7	7	7	7	7	135
187	2043	103		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	72
188	2044	102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	75
189	2045	101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	77
190	2046	100		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	80
191	2047	198		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	7	7	7	165
192	2048	96		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	83
193	2049	93		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	84
194	2050	91		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	85
195	2051	88		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	85
196	2052	185		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	185
197	Total Tax Straight Line Depreciation	88,041		2,840	2,840	2,840	2,840	2,843	2,845	2,847	2,849	2,851	2,857	2,860	2,863	2,866	2,869	2,876	2,879	2,883	2,886	2,889	2,896	2,900	2,903	2,906	2,910	2,916	2,919	2,923	2,926	2,929	4,590
198																																	
199																																	
200																																	

201	Year of monetization	2027	2028
202	% monetized	100%	0%
203	ITC	20,237	-
204	Asset useful life	30	30
205	# of years w/out fed tax appetite	4	5
206	# of years to amortize ITC	26	25
207	Annual ITC amortization	778	-

208																																	
209	Year Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30		
210	Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052		
211	1st Year ITC Amortization schedule	-	-	-	-	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778		
212	1st Year Annual ITC	-	-	-	-	20,237	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
213	1st Year 1/2 of ITC	-	-	-	-	10,118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
214																																	
215	2nd Year ITC Amortization schedule		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
216	2nd Year Annual ITC		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
217	2nd Year 1/2 of ITC		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
218																																	
219	Total ITC Amortization schedule	-	-	-	-	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778	778		
220	Total Annual ITC	-	-	-	-	20,237	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
221	Cumulative ITC	-	-	-	-	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237		
222	Total 1/2 of ITC	-	-	-	-	10,118	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
223																																	
224	ITC	-	-	-	-	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237	20,237		
225	ITC Amortization	-	-	-	-	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)	(778)		
226	Accumulated ITC Amortization	-	-	-	-	(778)	(1,557)	(2,335)	(3,113)	(3,892)	(4,670)	(5,448)	(6,227)	(7,005)	(7,783)	(8,562)	(9,340)	(10,118)	(10,897)	(11,675)	(12,453)	(13,232)	(14,010)	(14,788)	(15,567)	(16,345)	(17,123)	(17,902)	(18,680)	(19,458)	(20,237)		
227	Unamortized ITC	-	-	-	-	19,458	18,680	17,902	17,123	16,345	15,567	14,788	14,010	13,232	12,453	11,675	10,897	10,118	9,340	8,562	7,783	7,005	6,227	5,448	4,670	3,892	3,113	2,335	1,557	778	-		

($ in thousands)

Summary of Inputs

Year 1	2024
Investment	91,517
Investment (Non-AFUDC)	91,517
Investment (AFUDC)	-
ITC eligible basis	88,314
Federal ITC	8,831.41
Useful life (years)	30

# of years		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
Year		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053
Gross Plant- Initial Capital		91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517
Cumulative Adds & Mods		-	-	-	-	100	149	206	269	339	515	596	681	771	864	1,076	1,174	1,275	1,377	1,480	1,682	1,785	1,887	1,988	2,088	2,285	2,381	2,474	2,565	2,654	2,839
Gross Plant		91,517	91,517	91,517	91,517	91,617	91,667	91,723	91,787	91,856	92,032	92,113	92,198	92,288	92,382	92,593	92,692	92,792	92,894	92,997	93,200	93,302	93,404	93,505	93,605	93,802	93,898	93,992	94,083	94,171	94,356
Annual Depreciation		(3,051)	(3,051)	(3,051)	(3,051)	(3,054)	(3,056)	(3,057)	(3,060)	(3,062)	(3,068)	(3,070)	(3,073)	(3,076)	(3,079)	(3,086)	(3,090)	(3,093)	(3,096)	(3,100)	(3,107)	(3,110)	(3,113)	(3,117)	(3,120)	(3,127)	(3,130)	(3,133)	(3,136)	(3,139)	(4,801)
Accumulated Depreciation		(3,051)	(6,101)	(9,152)	(12,202)	(15,256)	(18,312)	(21,369)	(24,429)	(27,491)	(30,558)	(33,629)	(36,702)	(39,778)	(42,858)	(45,944)	(49,034)	(52,127)	(55,223)	(58,323)	(61,430)	(64,540)	(67,654)	(70,770)	(73,891)	(77,017)	(80,147)	(83,280)	(86,416)	(89,555)	(94,356)
Cost of Removal/Salvage Accrual		(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)
Cost of Removal/Salvage Realization		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,491
Accumulated Cost of Removal/Salvage Accrual		(183)	(366)	(549)	(732)	(915)	(1,098)	(1,281)	(1,464)	(1,647)	(1,830)	(2,013)	(2,196)	(2,379)	(2,562)	(2,746)	(2,929)	(3,112)	(3,295)	(3,478)	(3,661)	(3,844)	(4,027)	(4,210)	(4,393)	(4,576)	(4,759)	(4,942)	(5,125)	(5,308)	-
Accumulated Deferred Taxes		(3,438)	(9,425)	(12,735)	(14,436)	(16,131)	(16,622)	(15,908)	(15,191)	(14,474)	(13,760)	(13,048)	(12,334)	(11,621)	(10,908)	(10,196)	(9,476)	(8,745)	(8,014)	(7,282)	(6,551)	(5,801)	(5,030)	(4,258)	(3,486)	(2,713)	(1,942)	(1,168)	(392)	385	0
Rate Base		84,845	75,625	69,082	64,147	59,315	55,634	53,165	50,703	48,244	45,883	43,423	40,966	38,510	36,054	33,707	31,253	28,808	26,362	23,914	21,558	19,117	16,694	14,267	11,836	9,496	7,051	4,602	2,149	(308)	0
WACC Revenue Requirement on Rate Base	8.94%	7,883	7,173	6,468	5,955	5,519	5,138	4,863	4,643	4,423	4,208	3,992	3,772	3,553	3,333	3,118	2,904	2,685	2,466	2,247	2,033	1,818	1,601	1,384	1,167	954	740	521	302	82	(14)
Federal ITC Amortization		-	-	-	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)
Gross-up on Federal ITC Amortization		-	-	-	(111)	(111)	(111)	(111)	(111)	(111)	(111)	(111)	(111)	(111)	(111)	(111)	(111)	(111)	(111)	(111)	(111)	(111)	(111)	(111)	(111)	(111)	(111)	(111)	(111)	(111)	(111)
Gross-up on Book/Tax SL depreciation Difference		50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50	50
Depreciation Expense		3,051	3,051	3,051	3,051	3,054	3,056	3,057	3,060	3,062	3,068	3,070	3,073	3,076	3,079	3,086	3,090	3,093	3,096	3,100	3,107	3,110	3,113	3,117	3,120	3,127	3,130	3,133	3,136	3,139	4,801
Cost of Removal/Salvage Accrual		183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183
O&M - operating		634	643	658	673	694	762	780	798	817	841	856	876	897	960	944	961	984	1,007	1,031	1,061	1,081	1,107	1,133	1,161	1,194	1,218	1,247	1,278	1,309	1,346
Lease expense		418	426	435	444	452	462	471	480	490	500	510	520	530	541	552	563	574	585	597	609	621	634	646	659	672	686	700	713	728	742
Property Taxes		307	297	291	282	272	263	254	244	235	222	213	200	188	175	814	751	689	610	532	470	470	407	407	360	360	329	313	313	313	313
Insurance		111	115	118	122	126	129	133	137	142	146	151	155	160	165	171	176	181	187	193	199	205	212	218	225	232	239	247	255	262	271
Sum of Revenue Requirements ($000)		$12,637	$11,938	$11,254	$10,321	$9,912	$9,604	$9,353	$9,157	$8,963	$8,779	$8,586	$8,392	$8,199	$8,049	$8,480	$8,240	$8,001	$7,748	$7,495	$7,272	$7,100	$6,868	$6,701	$6,487	$6,334	$6,136	$5,955	$5,791	$5,628	$7,254
NPV of Revenue Requirements	117,020																														
Levelized Revenue Requirement	117,020	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148	9,148

Deferred Income Tax Calculation

Book Basis		91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517	91,517
Federal ITC Basis Reduction		(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)	(4,416)
Land		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tax Basis		87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101	87,101
Tax Accelerated Depreciation	89,941	16,653	26,708	16,144	9,797	9,780	5,028	275	266	271	285	296	295	297	301	315	286	245	245	248	259	188	107	106	108	116	120	115	112	111	863
Tax Straight Line Depreciation	89,941	2,903	2,903	2,903	2,903	2,907	2,908	2,910	2,912	2,915	2,921	2,923	2,926	2,929	2,932	2,939	2,943	2,946	2,949	2,953	2,959	2,963	2,966	2,970	2,973	2,980	2,983	2,986	2,989	2,992	4,654
Difference	(0)	13,750	23,804	13,241	6,893	6,873	2,120	(2,636)	(2,646)	(2,644)	(2,635)	(2,627)	(2,631)	(2,632)	(2,631)	(2,624)	(2,657)	(2,701)	(2,704)	(2,704)	(2,701)	(2,775)	(2,859)	(2,863)	(2,865)	(2,863)	(2,863)	(2,871)	(2,877)	(2,881)	(3,790)
Tax Effect of Difference (Deferred tax)	**(0)**	3,485	6,033	3,356	1,747	1,742	537	(668)	(671)	(670)	(668)	(666)	(667)	(667)	(667)	(665)	(673)	(685)	(685)	(685)	(684)	(703)	(725)	(726)	(726)	(726)	(726)	(728)	(729)	(730)	(961)
Tax Effect of Cost of Removal/Salvage	5,491	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5,491
Book Effect of Cost of Removal/Salvage	5,491	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183	183
Difference	-	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	(183)	5,308
Tax Effect of Difference (Deferred tax)	-	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	(46)	1,345
Total Deferred Tax	(0)	3,438	5,987	3,310	1,701	1,696	491	(714)	(717)	(717)	(714)	(712)	(713)	(713)	(713)	(711)	(720)	(731)	(732)	(732)	(731)	(750)	(771)	(772)	(772)	(772)	(772)	(774)	(776)	(777)	385
Accumulated Deferred Taxes		3,438	9,425	12,735	14,436	16,131	16,622	15,908	15,191	14,474	13,760	13,048	12,334	11,621	10,908	10,196	9,476	8,745	8,014	7,282	6,551	5,801	5,030	4,258	3,486	2,713	1,942	1,168	392	(385)	(0)

Insurance Expense ($000s)

Insurance - base rate (% of Plant)	0.12%																														
Insurance - inflation rate	3.0%																														
Insurance Expense ($000s)		111	115	118	122	126	129	133	137	142	146	151	155	160	165	171	176	181	187	193	199	205	212	218	225	232	239	247	255	262	271

Federal Tax Depreciation

Capital Expenditures	91,517
Capital Expenditures - Solar	88,334
Capital Expenditures - Transmission	3,184
ITC Eligible Amount	88,314
ITC	8,831
Portion of ITC offsetting tax basis	4,416
Less land	-
Tax Basis	87,101
Asset useful life	30

MACRS Schedule - Initial Investment

Distribution	Year	5-yr	7-yr	15-yr	20-yr	39-yr	Composite	Fed Tax Deprec
		94.46%	**0.00%**	**1.52%**	**4.01%**	**0.00%**	100.00%	
2024	1	**20.00%**	**14.29%**	**5.00%**	**3.75%**	**0.11%**	19.1193%	16,653
2025	2	**32.00%**	**24.49%**	**9.50%**	**7.22%**	**2.56%**	30.6627%	26,708
2026	3	**19.20%**	**17.49%**	**8.55%**	**6.68%**	**2.56%**	18.5351%	16,144
2027	4	**11.52%**	**12.49%**	**7.70%**	**6.18%**	**2.56%**	11.2473%	9,797
2028	5	**11.52%**	**8.93%**	**6.93%**	**5.71%**	**2.56%**	11.2169%	9,770
2029	6	**5.76%**	**8.92%**	**6.23%**	**5.29%**	**2.56%**	5.7480%	5,007
2030	7	**0.00%**	**8.93%**	**5.90%**	**4.89%**	**2.56%**	0.2860%	249
2031	8	**0.00%**	**4.46%**	**5.90%**	**4.52%**	**2.56%**	0.2712%	236
2032	9	**0.00%**	**0.00%**	**5.91%**	**4.46%**	**2.56%**	0.2689%	234
2033	10	**0.00%**	**0.00%**	**5.90%**	**4.46%**	**2.56%**	0.2687%	234
2034	11	**0.00%**	**0.00%**	**5.91%**	**4.46%**	**2.56%**	0.2689%	234
2035	12	**0.00%**	**0.00%**	**5.90%**	**4.46%**	**2.56%**	0.2687%	234
2036	13	**0.00%**	**0.00%**	**5.91%**	**4.46%**	**2.56%**	0.2689%	234
2037	14	**0.00%**	**0.00%**	**5.90%**	**4.46%**	**2.56%**	0.2687%	234

MACRS Schedule - Adds & Mods

Year	5-yr	7-yr	15-yr	20-yr	39-yr	Composite
	37.82%	**0.00%**	**10.65%**	**51.53%**	**0.00%**	100.00%
1	**20.00%**	**14.29%**	**5.00%**	**3.75%**	**0.11%**	10.0286%
2	**32.00%**	**24.49%**	**9.50%**	**7.22%**	**2.56%**	16.8337%
3	**19.20%**	**17.49%**	**8.55%**	**6.68%**	**2.56%**	11.6124%
4	**11.52%**	**12.49%**	**7.70%**	**6.18%**	**2.56%**	8.3598%
5	**11.52%**	**8.93%**	**6.93%**	**5.71%**	**2.56%**	8.0387%
6	**5.76%**	**8.92%**	**6.23%**	**5.29%**	**2.56%**	5.5653%
7	**0.00%**	**8.93%**	**5.90%**	**4.89%**	**2.56%**	3.1472%
8	**0.00%**	**4.46%**	**5.90%**	**4.52%**	**2.56%**	2.9586%
9	**0.00%**	**0.00%**	**5.91%**	**4.46%**	**2.56%**	2.9287%
10	**0.00%**	**0.00%**	**5.90%**	**4.46%**	**2.56%**	2.9271%
11	**0.00%**	**0.00%**	**5.91%**	**4.46%**	**2.56%**	2.9287%
12	**0.00%**	**0.00%**	**5.90%**	**4.46%**	**2.56%**	2.9271%
13	**0.00%**	**0.00%**	**5.91%**	**4.46%**	**2.56%**	2.9287%
14	**0.00%**	**0.00%**	**5.90%**	**4.46%**	**2.56%**	2.9271%

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
82					2038	15	0.00%	0.00%	5.91%	4.46%	2.56%	0.2689%	234		15	0.00%	0.00%	5.91%	4.46%	2.56%	2.9287%													
83					2039	16	0.00%	0.00%	2.95%	4.46%	2.56%	0.2239%	195		16	0.00%	0.00%	2.95%	4.46%	2.56%	2.6130%													
84					2040	17	0.00%	0.00%	0.00%	4.46%	2.56%	0.1792%	156		17	0.00%	0.00%	0.00%	4.46%	2.56%	2.2994%													
85					2041	18	0.00%	0.00%	0.00%	4.46%	2.56%	0.1791%	156		18	0.00%	0.00%	0.00%	4.46%	2.56%	2.2989%													
86					2042	19	0.00%	0.00%	0.00%	4.46%	2.56%	0.1792%	156		19	0.00%	0.00%	0.00%	4.46%	2.56%	2.2994%													
87					2043	20	0.00%	0.00%	0.00%	4.46%	2.56%	0.1791%	156		20	0.00%	0.00%	0.00%	4.46%	2.56%	2.2989%													
88					2044	21	0.00%	0.00%	0.00%	2.23%	2.56%	0.0896%	78		21	0.00%	0.00%	0.00%	2.23%	2.56%	1.1497%													
89					2045	22	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		22	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%													
90					2046	23	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		23	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%													
91					2047	24	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		24	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%													
92					2048	25	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		25	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%													
93					2049	26	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		26	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%													
94					2050	27	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		27	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%													
95					2051	28	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		28	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%													
96					2052	29	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		29	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%													
97					2053	30	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		30	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%													
98					2054	31	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		31	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%													
99					2055	32	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		32	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%													
100					2056	33	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		33	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%													
101					2057	34	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		34	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%													
102					2058	35	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		35	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%													
103					2059	36	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		36	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%													
104					2060	37	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		37	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%													
105					2061	38	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		38	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%													
106					2062	39	0.00%	0.00%	0.00%	0.00%	2.56%	0.0001%	0		39	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%													
107					2063	40	0.00%	0.00%	0.00%	0.00%	2.46%	0.0001%	0		40	0.00%	0.00%	0.00%	0.00%	2.46%	0.0000%													
108						Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	87,101		Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%													
109																																	
110				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
111	Tax Depreciation	Year	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	
112																																	
113	Initial Investment	87,101	16,653	26,708	16,144	9,797	9,770	5,007	249	236	234	234	234	234	234	234	234	195	156	156	156	156	78	0	0	0	0	0	0	0	0	1	
114																																	
115	Adds & Mods																																
116	Vintage	Capex																															
117	2024	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
118	2025	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
119	2026	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
120	2027	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
121	2028	100	-	-	-	-	10	17	12	8	8	6	3	3	3	3	3	3	3	3	3	3	2	2	2	2	1	-	-	-	-	(0)	
122	2029	49	-	-	-	-	-	5	8	6	4	4	3	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-	-	0
123	2030	57	-	-	-	-	-	-	6	10	7	5	5	3	2	2	2	2	2	2	2	2	2	1	1	1	1	1	1	-	-	-	0
124	2031	63	-	-	-	-	-	-	-	6	11	7	5	5	4	2	2	2	2	2	2	2	2	2	2	1	1	1	1	1	-	-	0	
125	2032	70	-	-	-	-	-	-	-	-	7	12	8	6	6	4	2	2	2	2	2	2	2	2	2	2	2	2	2	2	1	-	
126	2033	176	-	-	-	-	-	-	-	-	-	18	30	20	15	14	10	6	5	5	5	5	5	5	5	5	5	4	4	4	4	2	
127	2034	81	-	-	-	-	-	-	-	-	-	-	8	14	9	7	7	5	3	2	2	2	2	2	2	2	2	2	2	2	2	3	
128	2035	86	-	-	-	-	-	-	-	-	-	-	-	9	14	10	7	7	5	3	3	3	3	3	3	3	3	3	2	2	2	5	
129	2036	90	-	-	-	-	-	-	-	-	-	-	-	-	9	15	10	8	7	5	3	3	3	3	3	3	3	3	3	2	2	7	
130	2037	93	-	-	-	-	-	-	-	-	-	-	-	-	-	9	16	11	8	8	5	3	3	3	3	3	3	3	3	3	2	10	
131	2038	211	-	-	-	-	-	-	-	-	-	-	-	-	-	-	21	36	25	18	17	12	7	6	6	6	6	6	6	6	6	27	
132	2039	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	17	11	8	8	5	3	3	3	3	3	3	3	3	16	
133	2040	101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	17	12	8	8	6	3	3	3	3	3	3	3	19	
134	2041	102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	17	12	9	8	6	3	3	3	3	3	3	22	
135	2042	103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	17	12	9	8	6	3	3	3	3	3	25	
136	2043	203	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	34	24	17	16	11	6	6	6	6	56	
137	2044	103	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	17	12	9	8	6	3	3	3	31	
138	2045	102	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	17	12	9	8	6	3	3	34	
139	2046	101	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	17	12	8	8	6	3	37	
140	2047	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	17	12	8	8	6	39	
141	2048	198	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	20	33	23	17	16	89	
142	2049	96	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	10	16	11	8	51	
143	2050	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	16	11	57	
144	2051	91	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	15	67	
145	2052	88	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	9	79	
146	2053	185	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	185	
147																																	
148	Total Fed tax depreciation	89,941	16,653	26,708	16,144	9,797	9,780	5,028	275	266	271	285	296	295	297	301	315	286	245	245	248	259	188	107	106	108	116	120	115	112	111	863	
149																																	
150	Property Tax																																
151	Property tax rate offset (generation)	0%																															
152	Property tax rate (generation)	0.00%																															
153	Book Value	88,334																															
154	Initial Investment		88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	88,334	
155	Cumulative Additions		-	-	-	-	100	149	206	269	339	515	596	681	771	864	1,076	1,174	1,275	1,377	1,480	1,682	1,785	1,887	1,988	2,088	2,285	2,381	2,474	2,565	2,654	2,839	
156	Taxable Book Value		88,334	88,334	88,334	88,334	88,434	88,483	88,540	88,603	88,673	88,848	88,929	89,015	89,105	89,198	89,409	89,508	89,609	89,711	89,813	90,016	90,119	90,221	90,322	90,421	90,619	90,715	90,808	90,899	90,987	91,173	
157	Annual Property Tax Expense (generation)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
158																																	
159	Property tax rate (transmission)	0.000%	(average rate developed based on original cost)																														
160	Book Value	3,184																															
161	Initial Investment		3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	
162	Taxable Book Value		3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	3,184	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG
163	Annual Property Tax Expense (transmission)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
164																																	
165	Tax Straight Line Depreciation																																
166	Vintage	Tax Basis																															
167	2024	87,101		2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903	2,903
168	2025	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
169	2026	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
170	2027	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
171	2028	100		-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	17
172	2029	49		-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	10
173	2030	57		-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	13
174	2031	63		-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	17
175	2032	70		-	-	-	-	-	-	-	-	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	21
176	2033	176		-	-	-	-	-	-	-	-	-	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	59
177	2034	81		-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	30
178	2035	86		-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	34
179	2036	90		-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	39
180	2037	93		-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	44
181	2038	211		-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	106
182	2039	99		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	3	53
183	2040	101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	3	57
184	2041	102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	3	61
185	2042	103		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	3	3	65
186	2043	203		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	7	7	7	7	7	7	7	7	135
187	2044	103		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	3	72
188	2045	102		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	3	75
189	2046	101		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	3	77
190	2047	100		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	3	3	80
191	2048	198		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	7	7	7	7	7	165
192	2049	96		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	3	83
193	2050	93		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	3	84
194	2051	91		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	3	85
195	2052	88		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	85
196	2053	185		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	185
197	Total Tax Straight Line Depreciation	89,941		2,903	2,903	2,903	2,903	2,907	2,908	2,910	2,912	2,915	2,921	2,923	2,926	2,929	2,932	2,939	2,943	2,946	2,949	2,953	2,959	2,963	2,966	2,970	2,973	2,980	2,983	2,986	2,989	2,992	4,654
198																																	
199																																	
200																																	

201	Year of monetization	2027	2028
202	% monetized	100%	0%
203	ITC	8,831	-
204	Asset useful life	30	30
205	# of years w/out fed tax appetite	3	4
206	# of years to amortize ITC	27	26
207	Annual ITC amortization	327	-

208																																	
209	Year Number		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	
210	Year		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	
211	1st Year ITC Amortization schedule		-	-	-	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	
212	1st Year Annual ITC		-	-	-	8,831	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
213	1st Year 1/2 of ITC		-	-	-	4,416	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
214																																	
215	2nd Year ITC Amortization schedule			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
216	2nd Year Annual ITC			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
217	2nd Year 1/2 of ITC			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
218																																	
219	Total ITC Amortization schedule		-	-	-	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	327	
220	Total Annual ITC		-	-	-	8,831	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
221	Cumulative ITC		-	-	-	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	
222	Total 1/2 of ITC		-	-	-	4,416	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
223																																	
224	ITC		-	-	-	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	8,831	
225	ITC Amortization		-	-	-	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	(327)	
226	Accumulated ITC Amortization		-	-	-	(327)	(654)	(981)	(1,308)	(1,635)	(1,963)	(2,290)	(2,617)	(2,944)	(3,271)	(3,598)	(3,925)	(4,252)	(4,579)	(4,906)	(5,233)	(5,561)	(5,888)	(6,215)	(6,542)	(6,869)	(7,196)	(7,523)	(7,850)	(8,177)	(8,504)	(8,831)	
227	Unamortized ITC		-	-	-	8,504	8,177	7,850	7,523	7,196	6,869	6,542	6,215	5,888	5,561	5,233	4,906	4,579	4,252	3,925	3,598	3,271	2,944	2,617	2,290	1,963	1,635	1,308	981	654	327	-	

DEF-Network upgrade - 2022

($ in thousands)

Summary of Inputs

Year 1	2022
Investment	10,571
Investment (Non-AFUDC)	10,200
Investment (AFUDC)	371
ITC eligible basis	-
Federal ITC	-
Useful life (years)	40

# of years	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Year	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061
Gross Plant- Initial Capital	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571
Cumulative Adds & Mods	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Plant	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571	10,571
Annual Depreciation	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)	(264)
Accumulated Depreciation	(264)	(529)	(793)	(1,057)	(1,321)	(1,586)	(1,850)	(2,114)	(2,379)	(2,643)	(2,907)	(3,171)	(3,436)	(3,700)	(3,964)	(4,229)	(4,493)	(4,757)	(5,021)	(5,286)	(5,550)	(5,814)	(6,079)	(6,343)	(6,607)	(6,871)	(7,136)	(7,400)	(7,664)	(7,929)	(8,193)	(8,457)	(8,721)	(8,986)	(9,250)	(9,514)	(9,779)	(10,043)	(10,307)	(10,571)
Cost of Removal/Salvage Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cost of Removal/Salvage Realization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accumulated Cost of Removal/Salvage Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accumulated Deferred Taxes	(65)	(246)	(402)	(536)	(651)	(747)	(835)	(923)	(1,011)	(1,099)	(1,187)	(1,275)	(1,363)	(1,451)	(1,539)	(1,551)	(1,486)	(1,422)	(1,357)	(1,293)	(1,228)	(1,163)	(1,099)	(1,034)	(969)	(905)	(840)	(776)	(711)	(646)	(582)	(517)	(452)	(388)	(323)	(259)	(194)	(129)	(65)	-
Rate Base	10,242	9,797	9,377	8,978	8,599	8,238	7,886	7,534	7,182	6,829	6,477	6,125	5,772	5,420	5,068	4,792	4,592	4,392	4,193	3,993	3,793	3,594	3,394	3,194	2,995	2,795	2,596	2,396	2,196	1,997	1,797	1,597	1,398	1,198	998	799	599	399	200	-
WACC Revenue Requirement on Rate Base 8.94%	930	896	857	820	786	753	721	689	658	626	595	563	532	500	469	441	419	402	384	366	348	330	312	295	277	259	241	223	205	187	170	152	134	116	98	80	62	45	27	9
Federal ITC Amortization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross-up on Federal ITC Amortization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross-up on Book/Tax SL depreciation Difference	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
Depreciation Expense	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264	264
Cost of Removal/Salvage Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O&M - operating	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lease expense	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Property Taxes	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79
Insurance	13	13	14	14	14	15	15	16	16	17	17	18	18	19	19	20	21	21	22	23	23	24	25	25	26	27	28	29	29	30	31	32	33	34	35	36	37	38	40	41
Sum of Revenue Requirements	$1,290	$1,256	$1,218	$1,181	$1,147	$1,114	$1,083	$1,052	$1,021	$990	$959	$928	$897	$866	$835	$808	$787	$770	$752	$735	$718	$701	$684	$667	$650	$633	$616	$598	$582	$565	$548	$531	$514	$497	$480	$463	$447	$430	$413	$396
NPV of Revenue Requirements 13,121																																								
Deferred Income Tax Calculation																																								
Book Basis	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200
Federal ITC Basis Reduction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Land	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tax Basis	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200
Tax Accelerated Depreciation 10,200	510	969	872	785	707	635	602	602	603	602	603	602	603	602	603	301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tax Straight Line Depreciation 10,200	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255
Difference -	255	714	617	530	452	380	347	347	348	347	348	347	348	347	348	46	(255)	(255)	(255)	(255)	(255)	(255)	(255)	(255)	(255)	(255)	(255)	(255)	(255)	(255)	(255)	(255)	(255)	(255)	(255)	(255)	(255)	(255)	(255)	(255)
Tax Effect of Difference (Deferred tax) -	65	181	156	134	115	96	88	88	88	88	88	88	88	88	88	12	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)
Tax Effect of Cost of Removal/Salvage -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Book Effect of Cost of Removal/Salvage -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Difference -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tax Effect of Difference (Deferred tax) -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Deferred Tax -	65	181	156	134	115	96	88	88	88	88	88	88	88	88	88	12	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)	(65)
Accumulated Deferred Taxes	65	246	402	536	651	747	835	923	1,011	1,099	1,187	1,275	1,363	1,451	1,539	1,551	1,486	1,422	1,357	1,293	1,228	1,163	1,099	1,034	969	905	840	776	711	646	582	517	452	388	323	259	194	129	65	-

$52,199.95

Insurance Expense ($000s)

Insurance - base rate (% of Plant) 0.12%																																								
Insurance - inflation rate 3.0%																																								
Insurance Expense ($000s)	13	13	14	14	14	15	15	16	16	17	17	18	18	19	19	20	21	21	22	23	23	24	25	25	26	27	28	29	29	30	31	32	33	34	35	36	37	38	40	41

DEF-Network upgrade - 2022

Federal Tax Depreciation

Capital Expenditures	10,571
Capital Expenditures - Solar	-
Capital Expenditures - Transmission	10,200
ITC Eligible Amount	-
ITC	-
Portion of ITC offsetting tax basis	-
Less land	-
Tax Basis	10,200
Asset useful life	40

MACRS Schedule - Initial Investment

Year	Distribution	5-yr	7-yr	15-yr	20-yr	39-yr	Composite	Fed Tax Deprec
		0.00%	0.00%	100.00%	0.00%	0.00%	100.00%	
1	2022	20.00%	14.29%	5.00%	3.75%	2.46%	5.0000%	510
2	2023	32.00%	24.49%	9.50%	7.22%	2.56%	9.5000%	969
3	2024	19.20%	17.49%	8.55%	6.68%	2.56%	8.5500%	872
4	2025	11.52%	12.49%	7.70%	6.18%	2.56%	7.7000%	785
5	2026	11.52%	8.93%	6.93%	5.71%	2.56%	6.9300%	707
6	2027	5.76%	8.92%	6.23%	5.29%	2.56%	6.2300%	635
7	2028	0.00%	8.93%	5.90%	4.89%	2.56%	5.9000%	602
8	2029	0.00%	4.46%	5.90%	4.52%	2.56%	5.9000%	602
9	2030	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%	603
10	2031	0.00%	0.00%	5.90%	4.46%	2.56%	5.9000%	602
11	2032	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%	603
12	2033	0.00%	0.00%	5.90%	4.46%	2.56%	5.9000%	602
13	2034	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%	603
14	2035	0.00%	0.00%	5.90%	4.46%	2.56%	5.9000%	602
15	2036	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%	603
16	2037	0.00%	0.00%	2.95%	4.46%	2.56%	2.9500%	301
17	2038	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%	-
18	2039	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%	-
19	2040	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%	-
20	2041	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%	-
21	2042	0.00%	0.00%	0.00%	2.23%	2.56%	0.0000%	-
22	2043	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
23	2044	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
24	2045	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
25	2046	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
26	2047	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
27	2048	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
28	2049	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
29	2050	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
30	2051	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
31	2052	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
32	2053	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
33	2054	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
34	2055	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
35	2056	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
36	2057	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
37	2058	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
38	2059	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
39	2060	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-

MACRS Schedule - Adds & Mods

Year	5-yr	7-yr	15-yr	20-yr	39-yr	Composite
1	20.00%	14.29%	5.00%	3.75%	2.46%	5.0000%
2	32.00%	24.49%	9.50%	7.22%	2.56%	9.5000%
3	19.20%	17.49%	8.55%	6.68%	2.56%	8.5500%
4	11.52%	12.49%	7.70%	6.18%	2.56%	7.7000%
5	11.52%	8.93%	6.93%	5.71%	2.56%	6.9300%
6	5.76%	8.92%	6.23%	5.29%	2.56%	6.2300%
7	0.00%	8.93%	5.90%	4.89%	2.56%	5.9000%
8	0.00%	4.46%	5.90%	4.52%	2.56%	5.9000%
9	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%
10	0.00%	0.00%	5.90%	4.46%	2.56%	5.9000%
11	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%
12	0.00%	0.00%	5.90%	4.46%	2.56%	5.9000%
13	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%
14	0.00%	0.00%	5.90%	4.46%	2.56%	5.9000%
15	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%
16	0.00%	0.00%	2.95%	4.46%	2.56%	2.9500%
17	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%
18	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%
19	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%
20	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%
21	0.00%	0.00%	0.00%	2.23%	2.56%	0.0000%
22	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
23	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
24	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
25	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
26	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
27	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
28	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
29	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
30	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
31	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
32	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
33	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
34	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
35	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
36	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
37	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
38	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
39	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS
108					2061	40	0.00%	0.00%	0.00%	0.00%	0.11%	0.0000%	-		40	0.00%	0.00%	0.00%	0.00%	0.11%	0.0000%																										
109					Total		100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	10,200		Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%																										
111				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
112	Tax Depreciation	Year		2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	0	0
113																																													
114	Initial Investment	10,200		510	969	872	785	707	635	602	602	603	602	603	602	603	602	603	301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
115																																													
116	Adds & Mods																																												
117	Vintage	Capex																																											
118	2022	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
119	2023	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
120	2024	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
121	2025	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
122	2026	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
123	2027	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
124	2028	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
125	2029	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
126	2030	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
127	2031	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
128	2032	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
129	2033	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
130	2034	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
131	2035	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
132	2036	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
133	2037	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
134	2038	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
135	2039	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
136	2040	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
137	2041	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
138	2042	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
139	2043	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
140	2044	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
141	2045	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
142	2046	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
143	2047	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
144	2048	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
145	2049	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
146	2050	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
147	2051	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
148	2052	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
149	2053	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
150	2054	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
151	2055	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
152	2056	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
153	2057	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
154	2058	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
155	2059	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
156	2060	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
157	2061	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
158																																												
159	Total Fed tax depreciation	10,200		510	969	872	785	707	635	602	602	603	602	603	602	603	602	603	301	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
160																																												
161	Property Tax																																												
162	Property tax rate offset (generation)	0%																																											
163	Property tax rate (generation)	0.00%																																											
164	Book Value	371																																											
165	Initial Investment			371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	-	-
166	Cumulative Additions			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
167	Taxable Book Value			371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	371	-	-
168	Annual Property Tax Expense (generation)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
169																																												
170	Property tax rate (transmission)	0.778%		(average rate developed based on original cost)																																									
171	Book Value	10,200																																											
172	Initial Investment			10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	-	-
173	Taxable Book Value			10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	10,200	-	-
174	Annual Property Tax Expense (transmission)			79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	79	-	-
175																																													
176	Tax Straight Line Depreciation																																												
177	Vintage	Tax Basis																																											
178	2022	10,200		255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	-	-
179	2023	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
180	2024	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
181	2025	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
182	2026	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
183	2027	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
184	2028	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
185	2029	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
186	2030	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
187	2031	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
188	2032	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
189	2033	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
190	2034	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191	2035	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
192	2036	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
193	2037	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
194	2038	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
195	2039	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
196	2040	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
197	2041	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
198	2042	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
199	2043	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
200	2044	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
201	2045	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	2046	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	2047	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	2048	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
205	2049	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	2050	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
207	2051	-																																										
208	2052	-																																										
209	2053	-																																										
210	2054	-																																										
211	2055	-																																										
212	2056	-																																										
213	2057	-																																										
214	2058	-																																										
215	2059	-																																										
216	2060	-																																										
217	2061	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
218	Total Tax Straight Line Depreciation	10,200		255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	255	-	-
219																																												

DEF-Network upgrade - 2022

Year of monetization	2027	2028
% monetized	100%	0%
ITC	-	-
Asset useful life	40	40
# of years w/out fed tax appetite	5	6
# of years to amortize ITC	35	34
Annual ITC amortization	-	-

Year Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Year	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061
1st Year ITC Amortization schedule	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1st Year Annual ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1st Year 1/2 of ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2nd Year ITC Amortization schedule		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2nd Year Annual ITC		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2nd Year 1/2 of ITC		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total ITC Amortization schedule	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Annual ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cumulative ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total 1/2 of ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ITC Amortization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accumulated ITC Amortization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unamortized ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

DEF-Utility Solar-Site Plan - 2023

($ in thousands)

Summary of Inputs

Year 1	2023
Investment	10,404
Investment (Non-AFUDC)	10,404
Investment (AFUDC)	-
ITC eligible basis	-
Federal ITC	-
Useful life (years)	40

# of years		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Year		2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062
Gross Plant- Initial Capital		10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404
Cumulative Adds & Mods		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Plant		10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404
Annual Depreciation		(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)
Accumulated Depreciation		(260)	(520)	(780)	(1,040)	(1,301)	(1,561)	(1,821)	(2,081)	(2,341)	(2,601)	(2,861)	(3,121)	(3,381)	(3,641)	(3,902)	(4,162)	(4,422)	(4,682)	(4,942)	(5,202)	(5,462)	(5,722)	(5,982)	(6,242)	(6,503)	(6,763)	(7,023)	(7,283)	(7,543)	(7,803)	(8,063)	(8,323)	(8,583)	(8,843)	(9,104)	(9,364)	(9,624)	(9,884)	(10,144)	(10,404)
Cost of Removal/Salvage Accrual		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cost of Removal/Salvage Realization		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accumulated Cost of Removal/Salvage Accrual		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accumulated Deferred Taxes		(66)	(251)	(410)	(547)	(664)	(762)	(852)	(942)	(1,032)	(1,121)	(1,211)	(1,301)	(1,391)	(1,480)	(1,570)	(1,582)	(1,516)	(1,450)	(1,384)	(1,318)	(1,253)	(1,187)	(1,121)	(1,055)	(989)	(923)	(857)	(791)	(725)	(659)	(593)	(527)	(461)	(396)	(330)	(264)	(198)	(132)	(66)	(0)
Rate Base		10,078	9,633	9,214	8,816	8,440	8,081	7,731	7,382	7,032	6,682	6,332	5,982	5,632	5,282	4,932	4,660	4,466	4,272	4,078	3,884	3,689	3,495	3,301	3,107	2,913	2,718	2,524	2,330	2,136	1,942	1,748	1,553	1,359	1,165	971	777	583	388	194	(0)
WACC Revenue Requirement on Rate Base	8.94%	916	881	842	806	771	738	707	676	644	613	582	550	519	488	457	429	408	391	373	356	339	321	304	286	269	252	234	217	200	182	165	148	130	113	95	78	61	43	26	9
Federal ITC Amortization		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross-up on Federal ITC Amortization		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross-up on Book/Tax SL depreciation Difference		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Depreciation Expense		260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260
Cost of Removal/Salvage Accrual		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O&M - operating		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lease expense		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Property Taxes		81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81
Insurance		13	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21	22	22	23	24	24	25	26	27	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Sum of Revenue Requirements		$1,269	$1,235	$1,197	$1,161	$1,127	$1,094	$1,063	$1,032	$1,001	$971	$940	$909	$878	$848	$817	$790	$769	$753	$736	$719	$702	$686	$669	$652	$636	$619	$603	$586	$570	$553	$537	$520	$504	$487	$471	$455	$439	$422	$406	$390
NPV of Revenue Requirements	12,873																																								
Deferred Income Tax Calculation																																									
Book Basis		10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404
Federal ITC Basis Reduction		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Land		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tax Basis		10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404
Tax Accelerated Depreciation	10,404	520	988	890	801	721	648	614	614	615	614	615	614	615	614	615	307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tax Straight Line Depreciation	10,404	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260
Difference	0	260	728	629	541	461	388	354	354	355	354	355	354	355	354	355	47	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)	(260)
Tax Effect of Difference (Deferred tax)	**0**	66	185	160	137	117	98	90	90	90	90	90	90	90	90	90	12	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)
Tax Effect of Cost of Removal/Salvage	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Book Effect of Cost of Removal/Salvage	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Difference	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tax Effect of Difference (Deferred tax)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Deferred Tax	0	66	185	160	137	117	98	90	90	90	90	90	90	90	90	90	12	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)	(66)
Accumulated Deferred Taxes		66	251	410	547	664	762	852	942	1,032	1,121	1,211	1,301	1,391	1,480	1,570	1,582	1,516	1,450	1,384	1,318	1,253	1,187	1,121	1,055	989	923	857	791	725	659	593	527	461	396	330	264	198	132	66	0

$102,337.62

Insurance Expense ($000s)

Insurance - base rate (% of Plant)	0.12%																																								
Insurance - inflation rate	3.0%																																								
Insurance Expense ($000s)		13	13	13	14	14	15	15	16	16	17	17	18	18	19	19	20	20	21	22	22	23	24	24	25	26	27	27	28	29	30	31	32	33	34	35	36	37	38	39	40

Federal Tax Depreciation

Capital Expenditures	10,404
Capital Expenditures - Solar	-
Capital Expenditures - Transmission	10,404
ITC Eligible Amount	-
ITC	-
Portion of ITC offsetting tax basis	-
Less land	-
Tax Basis	10,404

Asset useful life 40

MACRS Schedule - Initial Investment

Year		5-yr	7-yr	15-yr	20-yr	39-yr	Composite	Fed Tax Deprec
Distribution		0.00%	0.00%	100.00%	0.00%	0.00%	100.00%	
2023	1	20.00%	14.29%	5.00%	3.75%	2.46%	5.0000%	520
2024	2	32.00%	24.49%	9.50%	7.22%	2.56%	9.5000%	988
2025	3	19.20%	17.49%	8.55%	6.68%	2.56%	8.5500%	890
2026	4	11.52%	12.49%	7.70%	6.18%	2.56%	7.7000%	801
2027	5	11.52%	8.93%	6.93%	5.71%	2.56%	6.9300%	721
2028	6	5.76%	8.92%	6.23%	5.29%	2.56%	6.2300%	648
2029	7	0.00%	8.93%	5.90%	4.89%	2.56%	5.9000%	614
2030	8	0.00%	4.46%	5.90%	4.52%	2.56%	5.9000%	614
2031	9	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%	615
2032	10	0.00%	0.00%	5.90%	4.46%	2.56%	5.9000%	614
2033	11	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%	615
2034	12	0.00%	0.00%	5.90%	4.46%	2.56%	5.9000%	614
2035	13	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%	615
2036	14	0.00%	0.00%	5.90%	4.46%	2.56%	5.9000%	614
2037	15	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%	615
2038	16	0.00%	0.00%	2.95%	4.46%	2.56%	2.9500%	307
2039	17	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%	-
2040	18	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%	-
2041	19	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%	-
2042	20	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%	-
2043	21	0.00%	0.00%	0.00%	2.23%	2.56%	0.0000%	-
2044	22	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2045	23	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2046	24	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2047	25	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2048	26	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2049	27	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2050	28	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2051	29	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2052	30	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2053	31	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2054	32	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2055	33	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2056	34	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2057	35	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2058	36	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2059	37	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2060	38	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2061	39	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-

MACRS Schedule - Adds & Mods

Year	5-yr	7-yr	15-yr	20-yr	39-yr	Composite
1	20.00%	14.29%	5.00%	3.75%	2.46%	5.0000%
2	32.00%	24.49%	9.50%	7.22%	2.56%	9.5000%
3	19.20%	17.49%	8.55%	6.68%	2.56%	8.5500%
4	11.52%	12.49%	7.70%	6.18%	2.56%	7.7000%
5	11.52%	8.93%	6.93%	5.71%	2.56%	6.9300%
6	5.76%	8.92%	6.23%	5.29%	2.56%	6.2300%
7	0.00%	8.93%	5.90%	4.89%	2.56%	5.9000%
8	0.00%	4.46%	5.90%	4.52%	2.56%	5.9000%
9	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%
10	0.00%	0.00%	5.90%	4.46%	2.56%	5.9000%
11	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%
12	0.00%	0.00%	5.90%	4.46%	2.56%	5.9000%
13	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%
14	0.00%	0.00%	5.90%	4.46%	2.56%	5.9000%
15	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%
16	0.00%	0.00%	2.95%	4.46%	2.56%	2.9500%
17	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%
18	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%
19	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%
20	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%
21	0.00%	0.00%	0.00%	2.23%	2.56%	0.0000%
22	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
23	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
24	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
25	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
26	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
27	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
28	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
29	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
30	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
31	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
32	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
33	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
34	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
35	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
36	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
37	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
38	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
39	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS
108					2062	40	0.00%	0.00%	0.00%	0.00%	0.11%	0.0000%	-		40	0.00%	0.00%	0.00%	0.00%	0.11%	0.0000%																										
109						Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	10,404		Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%																										
111				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
112	Tax Depreciation	Year		2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	0	0
113																																													
114	Initial Investment	10,404		520	988	890	801	721	648	614	614	615	614	615	614	615	614	615	307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
115																																													
116	Adds & Mods																																												
117	Vintage	Capex																																											
118	2023	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
119	2024	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
120	2025	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
121	2026	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
122	2027	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
123	2028	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
124	2029	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
125	2030	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
126	2031	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
127	2032	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
128	2033	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
129	2034	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
130	2035	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
131	2036	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
132	2037	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
133	2038	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
134	2039	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
135	2040	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
136	2041	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
137	2042	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
138	2043	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
139	2044	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
140	2045	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
141	2046	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
142	2047	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
143	2048	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
144	2049	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
145	2050	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
146	2051	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
147	2052	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
148	2053	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
149	2054	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
150	2055	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
151	2056	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
152	2057	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
153	2058	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
154	2059	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
155	2060	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
156	2061	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
157	2062	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
158																																												
159	Total Fed tax depreciation	10,404		520	988	890	801	721	648	614	614	615	614	615	614	615	614	615	307	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
160																																												
161	Property Tax																																												
162	Property tax rate offset (generation)	0%																																											
163	Property tax rate (generation)	0.00%																																											
164	Book Value	-																																											
165	Initial Investment			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
166	Cumulative Additions			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
167	Taxable Book Value			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
168	Annual Property Tax Expense (generation)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
169																																												
170	Property tax rate (transmission)	0.778%		(average rate developed based on original cost)																																									
171	Book Value	10,404																																											
172	Initial Investment			10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	-	-
173	Taxable Book Value			10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	10,404	-	-
174	Annual Property Tax Expense (transmission)			81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	81	-	-
175																																													
176	Tax Straight Line Depreciation																																												
177	Vintage	Tax Basis																																											
178	2023	10,404		260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	-	-
179	2024	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
180	2025	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
181	2026	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
182	2027	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
183	2028	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
184	2029	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
185	2030	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
186	2031	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
187	2032	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
188	2033	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
189	2034	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
190	2035	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191	2036	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
192	2037	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
193	2038	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
194	2039	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
195	2040	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
196	2041	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
197	2042	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
198	2043	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
199	2044	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
200	2045	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
201	2046	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	2047	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	2048	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	2049	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
205	2050	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	2051	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
207	2052	-																																											
208	2053	-																																											
209	2054	-																																											
210	2055	-																																											
211	2056	-																																											
212	2057	-																																											
213	2058	-																																											
214	2059	-																																											
215	2060	-																																											
216	2061	-																																											
217	2062	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
218	Total Tax Straight Line Depreciation	10,404		260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	260	-	-
219																																												

Year of monetization	2027	2028	
% monetized	100%	0%	
ITC	-	-	
Asset useful life	40	40	
# of years w/out fed tax appetite	4	5	
# of years to amortize ITC	36	35	
Annual ITC amortization	-	-	

Year Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Year	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062
1st Year ITC Amortization schedule	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1st Year Annual ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1st Year 1/2 of ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2nd Year ITC Amortization schedule		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2nd Year Annual ITC		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2nd Year 1/2 of ITC		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total ITC Amortization schedule	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Annual ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cumulative ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total 1/2 of ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ITC Amortization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accumulated ITC Amortization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unamortized ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

DEF-Utility Solar-Site Plan - 2024

($ in thousands)

Summary of Inputs	
Year 1	2024
Investment	10,612
Investment (Non-AFUDC)	10,612
Investment (AFUDC)	-
ITC eligible basis	-
Federal ITC	-
Useful life (years)	40

# of years	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Year	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063
Gross Plant- Initial Capital	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612
Cumulative Adds & Mods	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross Plant	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612
Annual Depreciation	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)
Accumulated Depreciation	(265)	(531)	(796)	(1,061)	(1,327)	(1,592)	(1,857)	(2,122)	(2,388)	(2,653)	(2,918)	(3,184)	(3,449)	(3,714)	(3,980)	(4,245)	(4,510)	(4,775)	(5,041)	(5,306)	(5,571)	(5,837)	(6,102)	(6,367)	(6,633)	(6,898)	(7,163)	(7,428)	(7,694)	(7,959)	(8,224)	(8,490)	(8,755)	(9,020)	(9,286)	(9,551)	(9,816)	(10,081)	(10,347)	(10,612)
Cost of Removal/Salvage Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cost of Removal/Salvage Realization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accumulated Cost of Removal/Salvage Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accumulated Deferred Taxes	(67)	(256)	(418)	(558)	(677)	(778)	(869)	(960)	(1,052)	(1,144)	(1,235)	(1,327)	(1,419)	(1,510)	(1,602)	(1,614)	(1,547)	(1,479)	(1,412)	(1,345)	(1,278)	(1,210)	(1,143)	(1,076)	(1,009)	(941)	(874)	(807)	(740)	(672)	(605)	(538)	(471)	(403)	(336)	(269)	(202)	(134)	(67)	0
Rate Base	10,280	9,826	9,398	8,993	8,608	8,243	7,886	7,529	7,172	6,815	6,458	6,102	5,745	5,388	5,031	4,753	4,555	4,357	4,159	3,961	3,763	3,565	3,367	3,169	2,971	2,773	2,575	2,377	2,179	1,981	1,783	1,584	1,386	1,188	990	792	594	396	198	0
WACC Revenue Requirement on Rate Base 8.94%	934	899	859	822	787	753	721	689	657	625	593	561	530	498	466	437	416	398	381	363	345	328	310	292	274	257	239	221	204	186	168	151	133	115	97	80	62	44	27	9
Federal ITC Amortization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross-up on Federal ITC Amortization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Gross-up on Book/Tax SL depreciation Difference	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Depreciation Expense	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265
Cost of Removal/Salvage Accrual	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
O&M - operating	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lease expense	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Property Taxes	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83
Insurance	13	13	14	14	15	15	15	16	16	17	17	18	18	19	20	20	21	21	22	23	23	24	25	26	26	27	28	29	30	30	31	32	33	34	35	36	37	39	40	41
Sum of Revenue Requirements	$1,295	$1,260	$1,221	$1,184	$1,149	$1,116	$1,084	$1,053	$1,021	$990	$959	$927	$896	$864	$833	$805	$785	$768	$751	$734	$716	$699	$682	$666	$649	$632	$615	$598	$581	$564	$547	$531	$514	$497	$481	$464	$447	$431	$414	$398
NPV of Revenue Requirements 13,131																																								
Deferred Income Tax Calculation																																								
Book Basis	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612
Federal ITC Basis Reduction	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Land	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tax Basis	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612
Tax Accelerated Depreciation 10,612	531	1,008	907	817	735	661	626	626	627	626	627	626	627	626	627	313	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tax Straight Line Depreciation 10,612	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265
Difference (0)	265	743	642	552	470	396	361	361	362	361	362	361	362	361	362	48	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)	(265)
Tax Effect of Difference (Deferred tax) **(0)**	67	188	163	140	119	100	91	91	92	91	92	91	92	91	92	12	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)
Tax Effect of Cost of Removal/Salvage -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Book Effect of Cost of Removal/Salvage -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Difference -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Tax Effect of Difference (Deferred tax) -	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Deferred Tax (0)	67	188	163	140	119	100	91	91	92	91	92	91	92	91	92	12	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)	(67)
Accumulated Deferred Taxes	67	256	418	558	677	778	869	960	1,052	1,144	1,235	1,327	1,419	1,510	1,602	1,614	1,547	1,479	1,412	1,345	1,278	1,210	1,143	1,076	1,009	941	874	807	740	672	605	538	471	403	336	269	202	134	67	(0)

$104,384.37

Insurance Expense ($000s)																																							
Insurance - base rate (% of Plant) 0.12%																																							
Insurance - inflation rate 3.0%																																							
Insurance Expense ($000s)	13	13	14	14	15	15	15	16	16	17	17	18	18	19	20	20	21	21	22	23	23	24	25	26	26	27	28	29	30	30	31	32	33	34	35	36	37	39	40	41

Federal Tax Depreciation

Capital Expenditures	10,612
Capital Expenditures - Solar	-
Capital Expenditures - Transmission	10,612
ITC Eligible Amount	-
ITC	-
Portion of ITC offsetting tax basis	-
Less land	-
Tax Basis	10,612
Asset useful life	40

MACRS Schedule - Initial Investment

Year	5-yr	7-yr	15-yr	20-yr	39-yr	Composite	Fed Tax Deprec
Distribution	0.00%	0.00%	100.00%	0.00%	0.00%	100.00%	
2024 1	20.00%	14.29%	5.00%	3.75%	2.46%	5.0000%	531
2025 2	32.00%	24.49%	9.50%	7.22%	2.56%	9.5000%	1,008
2026 3	19.20%	17.49%	8.55%	6.68%	2.56%	8.5500%	907
2027 4	11.52%	12.49%	7.70%	6.18%	2.56%	7.7000%	817
2028 5	11.52%	8.93%	6.93%	5.71%	2.56%	6.9300%	735
2029 6	5.76%	8.92%	6.23%	5.29%	2.56%	6.2300%	661
2030 7	0.00%	8.93%	5.90%	4.89%	2.56%	5.9000%	626
2031 8	0.00%	4.46%	5.90%	4.52%	2.56%	5.9000%	626
2032 9	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%	627
2033 10	0.00%	0.00%	5.90%	4.46%	2.56%	5.9000%	626
2034 11	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%	627
2035 12	0.00%	0.00%	5.90%	4.46%	2.56%	5.9000%	626
2036 13	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%	627
2037 14	0.00%	0.00%	5.90%	4.46%	2.56%	5.9000%	626
2038 15	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%	627
2039 16	0.00%	0.00%	2.95%	4.46%	2.56%	2.9500%	313
2040 17	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%	-
2041 18	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%	-
2042 19	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%	-
2043 20	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%	-
2044 21	0.00%	0.00%	0.00%	2.23%	2.56%	0.0000%	-
2045 22	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2046 23	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2047 24	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2048 25	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2049 26	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2050 27	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2051 28	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2052 29	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2053 30	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2054 31	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2055 32	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2056 33	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2057 34	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2058 35	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2059 36	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2060 37	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2061 38	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-
2062 39	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%	-

MACRS Schedule - Adds & Mods

Year	5-yr	7-yr	15-yr	20-yr	39-yr	Composite
1	20.00%	14.29%	5.00%	3.75%	2.46%	5.0000%
2	32.00%	24.49%	9.50%	7.22%	2.56%	9.5000%
3	19.20%	17.49%	8.55%	6.68%	2.56%	8.5500%
4	11.52%	12.49%	7.70%	6.18%	2.56%	7.7000%
5	11.52%	8.93%	6.93%	5.71%	2.56%	6.9300%
6	5.76%	8.92%	6.23%	5.29%	2.56%	6.2300%
7	0.00%	8.93%	5.90%	4.89%	2.56%	5.9000%
8	0.00%	4.46%	5.90%	4.52%	2.56%	5.9000%
9	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%
10	0.00%	0.00%	5.90%	4.46%	2.56%	5.9000%
11	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%
12	0.00%	0.00%	5.90%	4.46%	2.56%	5.9000%
13	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%
14	0.00%	0.00%	5.90%	4.46%	2.56%	5.9000%
15	0.00%	0.00%	5.91%	4.46%	2.56%	5.9100%
16	0.00%	0.00%	2.95%	4.46%	2.56%	2.9500%
17	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%
18	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%
19	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%
20	0.00%	0.00%	0.00%	4.46%	2.56%	0.0000%
21	0.00%	0.00%	0.00%	2.23%	2.56%	0.0000%
22	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
23	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
24	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
25	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
26	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
27	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
28	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
29	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
30	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
31	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
32	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
33	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
34	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
35	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
36	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
37	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
38	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%
39	0.00%	0.00%	0.00%	0.00%	2.56%	0.0000%

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS
108					2063	40	0.00%	0.00%	0.00%	0.00%	0.11%	0.0000%	-		40	0.00%	0.00%	0.00%	0.00%	0.11%	0.0000%																										
109						Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	10,612		Total	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%																										
111				1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42
112	Tax Depreciation	Year		2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063	0	0
114	Initial Investment	10,612		531	1,008	907	817	735	661	626	626	627	626	627	626	627	626	627	313	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
116	Adds & Mods																																												
117	Vintage	Capex																																											
118	2024	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
119	2025	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
120	2026	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
121	2027	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
122	2028	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
123	2029	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
124	2030	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
125	2031	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
126	2032	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
127	2033	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
128	2034	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
129	2035	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
130	2036	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
131	2037	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
132	2038	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
133	2039	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
134	2040	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
135	2041	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
136	2042	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
137	2043	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
138	2044	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
139	2045	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
140	2046	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
141	2047	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
142	2048	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
143	2049	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
144	2050	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
145	2051	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
146	2052	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
147	2053	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
148	2054	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
149	2055	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
150	2056	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
151	2057	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
152	2058	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
153	2059	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
154	2060	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
155	2061	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
156	2062	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
157	2063	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
159	Total Fed tax depreciation	10,612		531	1,008	907	817	735	661	626	626	627	626	627	626	627	626	627	313	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
161	Property Tax																																											
162	Property tax rate offset (generation)	0%																																										
163	Property tax rate (generation)	0.00%																																										
164	Book Value	-																																										
165	Initial Investment			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
166	Cumulative Additions			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
167	Taxable Book Value			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
168	Annual Property Tax Expense (generation)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
170	Property tax rate (transmission)	0.778%		(average rate developed based on original cost)																																								
171	Book Value	10,612																																										
172	Initial Investment			10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	-	-
173	Taxable Book Value			10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	10,612	-	-
174	Annual Property Tax Expense (transmission)			83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	83	-	-
176	Tax Straight Line Depreciation																																											
177	Vintage	Tax Basis																																										
178	2024	10,612		265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	-	-
179	2025	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
180	2026	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
181	2027	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
182	2028	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
183	2029	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
184	2030	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
185	2031	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
186	2032	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
187	2033	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
188	2034	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
189	2035	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
190	2036	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
191	2037	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
192	2038	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
193	2039	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
194	2040	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
195	2041	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
196	2042	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
197	2043	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
198	2044	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
199	2045	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
200	2046	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
201	2047	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
202	2048	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
203	2049	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
204	2050	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
205	2051	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
206	2052	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
207	2053	-																																										
208	2054	-																																										
209	2055	-																																										
210	2056	-																																										
211	2057	-																																										
212	2058	-																																										
213	2059	-																																										
214	2060	-																																										
215	2061	-																																										
216	2062	-																																										
217	2063	-		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
218	Total Tax Straight Line Depreciation	10,612		265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	265	-	-
219																																												

Year of monetization	2027	2028	
% monetized	100%	0%	
ITC	-	-	
Asset useful life	40	40	
# of years w/out fed tax appetite	3	4	
# of years to amortize ITC	37	36	
Annual ITC amortization	-	-	

Year Number	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Year	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050	2051	2052	2053	2054	2055	2056	2057	2058	2059	2060	2061	2062	2063
1st Year ITC Amortization schedule	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1st Year Annual ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
1st Year 1/2 of ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2nd Year ITC Amortization schedule		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2nd Year Annual ITC		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2nd Year 1/2 of ITC		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total ITC Amortization schedule	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Annual ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cumulative ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total 1/2 of ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
ITC Amortization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Accumulated ITC Amortization	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Unamortized ITC	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Program Revenue Requirements		1	2
		2022	2023
WACC Revenue Requirement on Rate Base		19,594	54,566
Federal ITC Amortization		-	-
Gross-up on Federal ITC Amortization		-	-
Gross-up on Book/Tax SL depreciation Difference		335	793
Depreciation Expense		7,378	21,128
Cost of Removal/Salvage Accrual		397	1,159
O&M - operating		1,228	3,740
Lease expense		804	2,459
Property Taxes		847	2,428
Insurance		276	799
Sum of Revenue Requirements ($000)	$0	$30,858	$87,071
NPV of Revenue Requirements (2022$s)	1,140,298		

2022 Solar	0	28,278	26,795
2023 Solar	0	-	52,688
2024 Solar	0	-	-
	-	28,278	79,483
2022 N/U	0	2,580	2,512
2023 N/U	0	-	5,077
2024 N/U	0	-	-
	-	2,580	7,589
Total	-	30,858	87,071
MW's		149.8	449.4

3	4	5	6	7	8	9
2024	2025	2026	2027	2028	2029	2030
85,273	78,128	71,909	66,889	62,627	59,126	56,269
-	-	-	(6,167)	(6,167)	(6,167)	(6,167)
-	-	-	(2,094)	(2,094)	(2,094)	(2,094)
993	993	993	993	993	993	993
34,391	34,391	34,398	34,414	34,438	34,456	34,477
1,891	1,891	1,891	1,891	1,891	1,891	1,891
6,341	6,466	6,625	6,901	7,288	7,665	7,846
4,180	4,264	4,349	4,436	4,525	4,615	4,707
3,932	3,848	3,762	3,665	3,567	3,469	3,371
1,321	1,361	1,402	1,444	1,489	1,534	1,581
$138,321	$131,341	$125,328	$112,373	$108,557	$105,490	$102,877
25,341	24,272	23,376	20,348	19,774	19,313	18,854
49,877	47,125	45,114	39,268	37,995	36,940	36,103
50,548	47,754	45,018	41,285	39,648	38,416	37,412
125,767	119,151	113,508	100,902	97,417	94,670	92,369
2,435	2,363	2,294	2,229	2,166	2,104	2,042
4,941	4,788	4,643	4,507	4,377	4,252	4,129
5,179	5,040	4,883	4,736	4,597	4,464	4,337
12,554	12,190	11,821	11,471	11,139	10,820	10,507
138,321	131,341	125,328	112,373	108,557	105,490	102,877
749	749	749	749	749	749	749

10	11	12	13	14	15	16
2031	2032	2033	2034	2035	2036	2037
53,643	51,036	48,438	45,823	43,192	40,571	37,978
(6,167)	(6,167)	(6,167)	(6,167)	(6,167)	(6,167)	(6,167)
(2,094)	(2,094)	(2,094)	(2,094)	(2,094)	(2,094)	(2,094)
993	993	993	993	993	993	993
34,507	34,545	34,585	34,613	34,642	34,681	34,728
1,891	1,891	1,891	1,891	1,891	1,891	1,891
8,042	8,241	8,435	8,612	8,899	9,201	9,423
4,802	4,898	4,996	5,095	5,197	5,301	5,407
3,266	3,156	3,038	2,920	2,790	2,660	2,529
1,630	1,681	1,733	1,786	1,842	1,899	1,958
$100,513	$98,179	$95,848	$93,474	$91,186	$88,937	$86,648
18,417	17,961	17,501	17,043	16,673	16,162	15,711
35,271	34,481	33,654	32,821	31,992	31,337	30,402
36,629	35,852	35,118	34,346	33,568	32,794	32,195
90,317	88,294	86,273	84,210	82,233	80,294	78,307
1,980	1,918	1,856	1,794	1,732	1,670	1,615
4,005	3,882	3,759	3,636	3,513	3,390	3,267
4,211	4,086	3,960	3,834	3,709	3,583	3,458
10,196	9,885	9,575	9,264	8,954	8,643	8,340
100,513	98,179	95,848	93,474	91,186	88,937	86,648
749	749	749	749	749	749	749

17	18	19	20	21	22	23
2038	2039	2040	2041	2042	2043	2044
35,422	32,900	30,403	27,929	25,472	23,025	20,568
(6,167)	(6,167)	(6,167)	(6,167)	(6,167)	(6,167)	(6,167)
(2,094)	(2,094)	(2,094)	(2,094)	(2,094)	(2,094)	(2,094)
993	993	993	993	993	993	993
34,776	34,809	34,843	34,884	34,932	34,979	35,013
1,891	1,891	1,891	1,891	1,891	1,891	1,891
9,470	9,673	9,901	10,145	10,396	10,643	10,877
5,516	5,626	5,738	5,853	5,970	6,090	6,211
8,745	8,058	7,305	6,526	5,952	5,561	5,300
2,020	2,082	2,147	2,214	2,283	2,355	2,428
$90,573	$87,772	$84,962	$82,175	$79,628	$77,276	$75,021
16,499	15,906	15,315	14,786	14,373	13,825	13,422
32,089	31,069	29,990	28,915	27,959	27,215	26,222
33,920	32,958	32,003	30,991	29,982	29,090	28,400
82,508	79,934	77,308	74,691	72,313	70,130	68,044
1,574	1,539	1,505	1,471	1,436	1,402	1,368
3,158	3,077	3,010	2,943	2,876	2,810	2,743
3,332	3,221	3,139	3,070	3,002	2,934	2,866
8,065	7,838	7,654	7,484	7,315	7,146	6,977
90,573	87,772	84,962	82,175	79,628	77,276	75,021
749	749	749	749	749	749	749

24	25	26	27	28	29	30
2045	2046	2047	2048	2049	2050	2051
18,100	15,642	13,196	10,753	8,288	5,802	3,589
(6,167)	(6,167)	(6,167)	(6,167)	(6,167)	(6,167)	(6,167)
(2,094)	(2,094)	(2,094)	(2,094)	(2,094)	(2,094)	(2,094)
993	993	993	993	993	993	993
35,047	35,087	35,133	35,178	35,209	35,240	38,588
1,891	1,891	1,891	1,891	1,891	1,891	1,891
11,137	11,415	11,700	11,983	12,254	12,552	12,869
6,336	6,462	6,592	6,723	6,858	6,995	7,135
4,944	4,749	4,490	4,325	4,134	4,072	4,072
2,503	2,581	2,662	2,745	2,830	2,917	3,008
$72,691	$70,559	$68,397	$66,332	$64,197	$62,201	$63,884
12,914	12,539	12,068	11,634	11,238	10,843	14,057
25,497	24,579	23,911	23,061	22,281	21,570	20,862
27,472	26,802	25,947	25,334	24,544	23,822	23,166
65,883	63,920	61,926	60,029	58,063	56,235	58,085
1,333	1,299	1,265	1,231	1,197	1,163	1,129
2,676	2,610	2,543	2,477	2,411	2,345	2,279
2,798	2,730	2,662	2,594	2,527	2,459	2,392
6,808	6,639	6,471	6,302	6,135	5,967	5,799
72,691	70,559	68,397	66,332	64,197	62,201	63,884
749	749	749	749	749	749	749

31	32
2052	2053
1,814	689
(4,422)	(1,308)
(1,501)	(444)
658	200
34,369	20,265
1,495	732
10,532	5,384
5,822	2,969
3,210	1,582
2,414	1,205
$54,391	$31,274

-	-
27,341	-
22,513	29,017
49,854	29,017

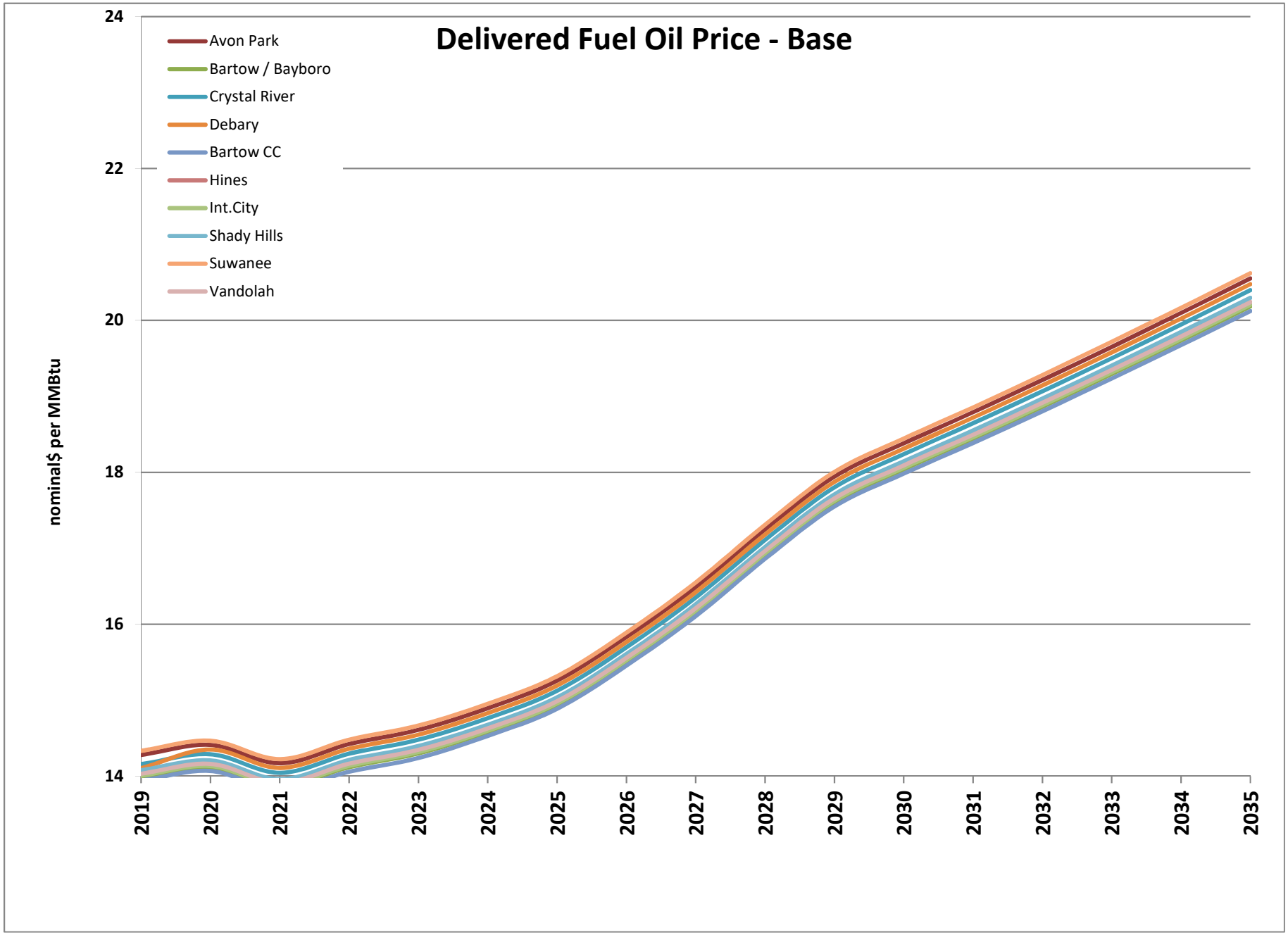
-	-
2,213	-
2,324	2,257
4,537	2,257

54,391	31,274

599.2	299.6

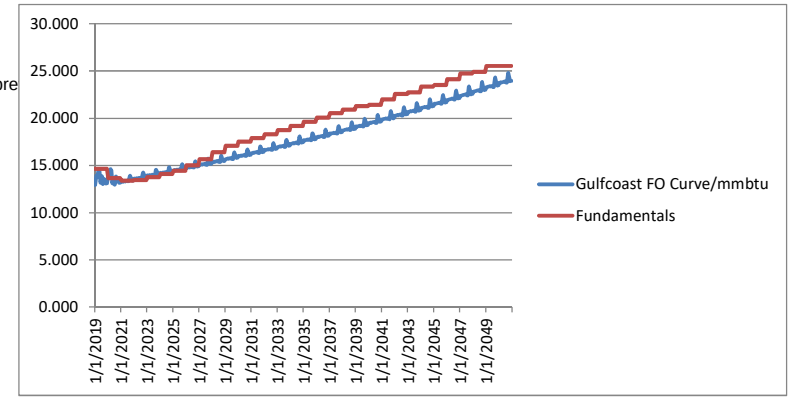
		0	1	2	5
		2022 Solar	2023 Solar	2024 Solar	2022 NetUp
0	2021	$ -	$ -	$ -	$ -
1	2022	$ 28,278	$ -	$ -	$ 2,580
2	2023	$ 26,795	$ 52,688	$ -	$ 2,512
3	2024	$ 25,341	$ 49,877	$ 50,548	$ 2,435
4	2025	$ 24,272	$ 47,125	$ 47,754	$ 2,363
5	2026	$ 23,376	$ 45,114	$ 45,018	$ 2,294
6	2027	$ 20,348	$ 39,268	$ 41,285	$ 2,229
7	2028	$ 19,774	$ 37,995	$ 39,648	$ 2,166
8	2029	$ 19,313	$ 36,940	$ 38,416	$ 2,104
9	2030	$ 18,854	$ 36,103	$ 37,412	$ 2,042
10	2031	$ 18,417	$ 35,271	$ 36,629	$ 1,980
11	2032	$ 17,961	$ 34,481	$ 35,852	$ 1,918
12	2033	$ 17,501	$ 33,654	$ 35,118	$ 1,856
13	2034	$ 17,043	$ 32,821	$ 34,346	$ 1,794
14	2035	$ 16,673	$ 31,992	$ 33,568	$ 1,732
15	2036	$ 16,162	$ 31,337	$ 32,794	$ 1,670
16	2037	$ 15,711	$ 30,402	$ 32,195	$ 1,615
17	2038	$ 16,499	$ 32,089	$ 33,920	$ 1,574
18	2039	$ 15,906	$ 31,069	$ 32,958	$ 1,539
19	2040	$ 15,315	$ 29,990	$ 32,003	$ 1,505
20	2041	$ 14,786	$ 28,915	$ 30,991	$ 1,471
21	2042	$ 14,373	$ 27,959	$ 29,982	$ 1,436
22	2043	$ 13,825	$ 27,215	$ 29,090	$ 1,402
23	2044	$ 13,422	$ 26,222	$ 28,400	$ 1,368
24	2045	$ 12,914	$ 25,497	$ 27,472	$ 1,333
25	2046	$ 12,539	$ 24,579	$ 26,802	$ 1,299
26	2047	$ 12,068	$ 23,911	$ 25,947	$ 1,265
27	2048	$ 11,634	$ 23,061	$ 25,334	$ 1,231
28	2049	$ 11,238	$ 22,281	$ 24,544	$ 1,197
29	2050	$ 10,843	$ 21,570	$ 23,822	$ 1,163
30	2051	$ 14,057	$ 20,862	$ 23,166	$ 1,129
31	2052	$ -	$ 27,341	$ 22,513	$ -
32	2053	$ -	$ -	$ 29,017	$ -
Total		**$ 515,239**	**$ 967,630**	**$ 986,545**	**$ 52,200**
NPV (2020$s)		**$ 235,237**	**$ 410,892**	**$ 385,325**	**$ 23,676**

6	7		12
2023 NetUp	2024 NetUp	Total	MW's
$ -	$ -	$ -	0
$ -	$ -	$ 30,858	149.8
$ 5,077	$ -	$ 87,071	449.4
$ 4,941	$ 5,179	$ 138,321	749
$ 4,788	$ 5,040	$ 131,341	749
$ 4,643	$ 4,883	$ 125,328	749
$ 4,507	$ 4,736	$ 112,373	749
$ 4,377	$ 4,597	$ 108,557	749
$ 4,252	$ 4,464	$ 105,490	749
$ 4,129	$ 4,337	$ 102,877	749
$ 4,005	$ 4,211	$ 100,513	749
$ 3,882	$ 4,086	$ 98,179	749
$ 3,759	$ 3,960	$ 95,848	749
$ 3,636	$ 3,834	$ 93,474	749
$ 3,513	$ 3,709	$ 91,186	749
$ 3,390	$ 3,583	$ 88,937	749
$ 3,267	$ 3,458	$ 86,648	749
$ 3,158	$ 3,332	$ 90,573	749
$ 3,077	$ 3,221	$ 87,772	749
$ 3,010	$ 3,139	$ 84,962	749
$ 2,943	$ 3,070	$ 82,175	749
$ 2,876	$ 3,002	$ 79,628	749
$ 2,810	$ 2,934	$ 77,276	749
$ 2,743	$ 2,866	$ 75,021	749
$ 2,676	$ 2,798	$ 72,691	749
$ 2,610	$ 2,730	$ 70,559	749
$ 2,543	$ 2,662	$ 68,397	749
$ 2,477	$ 2,594	$ 66,332	749
$ 2,411	$ 2,527	$ 64,197	749
$ 2,345	$ 2,459	$ 62,201	749
$ 2,279	$ 2,392	$ 63,884	749
$ 2,213	$ 2,324	$ 54,391	599.2
$ -	$ 2,257	$ 31,274	299.6
$ 102,338	**$ 104,384**	**$ 2,728,335**	
$ 43,543	**$ 41,625**	**$ 1,140,298**	


Delivered Fuel Oil Price - Base
Avon Park
Bartow / Bayboro
Crystal River
Debary
Bartow CC
Hines
Int.City
Shady Hills
Suwanee
Vandolah
nominal$ per MMBtu
24
22
20
18
16
14
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035

	Gulfcoast FO Curve/mmbtu	nominal$ Fundamentals	Gulfcoast FO Curve/gal			TCM	Fundamentals
1/1/2019	12.928	14.62	1.7840	2019	2019	13.53	14.62
2/1/2019	13.870	14.62	1.9140	2019	2020	13.65	13.66
3/1/2019	13.783	14.62	1.9020	2019	2021	13.39	13.38
4/1/2019	14.326	14.62	1.9770	2019	2022	13.72	13.44
5/1/2019	14.290	14.62	1.9720	2019	2023	14.03	13.75
6/1/2019	13.167	14.62	1.8170	2019	2024	14.31	14.08
7/1/2019	13.862	14.62	1.9130	2019	2025	14.60	14.43
8/1/2019	13.043	14.62	1.8000	2019	2026	14.89	15.00
9/1/2019	13.580	14.62	1.8740	2019	2027	15.19	15.64
10/1/2019	13.312	14.62	1.8370	2019	2028	15.49	16.39
11/1/2019	13.077	14.62	1.8046	2019	2029	15.80	17.07
12/1/2019	13.089	14.62	1.8063	2019	2030	16.12	17.50
1/1/2020	13.804	13.66	1.9049	2020	2031	16.44	17.89
2/1/2020	14.092	13.66	1.9448	2020	2032	16.77	18.30
3/1/2020	14.595	13.66	2.0142	2020	2033	17.10	18.73
4/1/2020	14.424	13.66	1.9904	2020	2034	17.44	19.16
5/1/2020	13.106	13.66	1.8086	2020	2035	17.79	19.60
6/1/2020	13.602	13.66	1.8770	2020	2036	18.15	20.05
7/1/2020	12.983	13.66	1.7916	2020	2037	18.51	20.52
8/1/2020	13.819	13.66	1.9070	2020	2038	18.88	20.91
9/1/2020	13.636	13.66	1.8818	2020	2039	19.26	21.29
10/1/2020	13.381	13.66	1.8466	2020	2040	19.64	21.42
11/1/2020	13.157	13.66	1.8156	2020	2041	20.04	21.98
12/1/2020	13.181	13.66	1.8189	2020	2042	20.44	22.55
1/1/2021	13.244	13.38	1.8277	2021	2043	20.85	22.74
2/1/2021	13.262	13.38	1.8301	2021	2044	21.26	23.33
3/1/2021	13.279	13.38	1.8325	2021	2045	21.69	23.52
4/1/2021	13.297	13.38	1.8349	2021	2046	22.12	24.12
5/1/2021	13.314	13.38	1.8374	2021	2047	22.57	24.73
6/1/2021	13.332	13.38	1.8398	2021	2048	23.02	24.91
7/1/2021	13.332	13.38	1.8398	2021	2049	23.48	25.53
8/1/2021	13.332	13.38	1.8398	2021	2050	23.95	25.53
9/1/2021	13.889	13.38	1.9166	2021			
10/1/2021	13.629	13.38	1.8807	2021			
11/1/2021	13.400	13.38	1.8492	2021			
12/1/2021	13.424	13.38	1.8526	2021			
1/1/2022	13.570	13.44	1.8727	2022			
2/1/2022	13.588	13.44	1.8752	2022			
3/1/2022	13.606	13.44	1.8777	2022			
4/1/2022	13.624	13.44	1.8801	2022			
5/1/2022	13.642	13.44	1.8826	2022			
6/1/2022	13.660	13.44	1.8851	2022			
7/1/2022	13.660	13.44	1.8850	2022			
8/1/2022	13.659	13.44	1.8850	2022			
9/1/2022	14.230	13.44	1.9637	2022			
10/1/2022	13.963	13.44	1.9269	2022			
11/1/2022	13.729	13.44	1.8946	2022			
12/1/2022	13.754	13.44	1.8981	2022			
1/1/2023	13.904	13.75	1.9187	2023			
2/1/2023	13.922	13.75	1.9212	2023			
3/1/2023	13.940	13.75	1.9237	2023			
4/1/2023	13.958	13.75	1.9262	2023			
5/1/2023	13.976	13.75	1.9287	2023			
6/1/2023	13.995	13.75	1.9313	2023			
7/1/2023	13.933	13.75	1.9312	2023			
8/1/2023	13.933	13.75	1.9312	2023			
9/1/2023	14.515	13.75	2.0118	2023			
10/1/2023	14.243	13.75	1.9742	2023			
11/1/2023	14.004	13.75	1.9410	2023			
12/1/2023	14.029	13.75	1.9446	2023			
1/1/2024	14.182	14.08	1.9657	2024			
2/1/2024	14.200	14.08	1.9683	2024			
3/1/2024	14.219	14.08	1.9709	2024			
4/1/2024	14.237	14.08	1.9734	2024			

Historical Gulf Coast FO
COB 10/16/2019
Grow at 1.5% of same month pre
Fall 2019 IHS Fundamentals
NYMEX - Close 4/15/19



5/1/2024	14.256	14.08	1.9760	2024
6/1/2024	14.274	14.08	1.9786	2024
7/1/2024	14.211	14.08	1.9785	2024
8/1/2024	14.211	14.08	1.9784	2024
9/1/2024	14.805	14.08	2.0610	2024
10/1/2024	14.528	14.08	2.0224	2024
11/1/2024	14.284	14.08	1.9884	2024
12/1/2024	14.310	14.08	1.9919	2024
1/1/2025	14.465	14.43	2.0135	2025
2/1/2025	14.484	14.43	2.0161	2025
3/1/2025	14.503	14.43	2.0187	2025
4/1/2025	14.522	14.43	2.0213	2025
5/1/2025	14.541	14.43	2.0239	2025
6/1/2025	14.560	14.43	2.0265	2025
7/1/2025	14.496	14.43	2.0271	2025
8/1/2025	14.496	14.43	2.0278	2025
9/1/2025	15.101	14.43	2.1133	2025
10/1/2025	14.818	14.43	2.0744	2025
11/1/2025	14.569	14.43	2.0403	2025
12/1/2025	14.596	14.43	2.0447	2025
1/1/2026	14.755	15.00	2.0677	2026
2/1/2026	14.774	15.00	2.0711	2026
3/1/2026	14.793	15.00	2.0745	2026
4/1/2026	14.813	15.00	2.0780	2026
5/1/2026	14.832	15.00	2.0814	2026
6/1/2026	14.851	15.00	2.0569	2026
7/1/2026	14.786	15.00	2.0576	2026
8/1/2026	14.785	15.00	2.0582	2026
9/1/2026	15.403	15.00	2.1449	2026
10/1/2026	15.114	15.00	2.1055	2026
11/1/2026	14.861	15.00	2.0709	2026
12/1/2026	14.888	15.00	2.0754	2026
1/1/2027	15.050	15.64	2.0987	2027
2/1/2027	15.069	15.64	2.1022	2027
3/1/2027	15.089	15.64	2.1056	2027
4/1/2027	15.109	15.64	2.1091	2027
5/1/2027	15.128	15.64	2.1126	2027
6/1/2027	15.148	15.64	2.0877	2027
7/1/2027	15.081	15.64	2.0884	2027
8/1/2027	15.081	15.64	2.0891	2027
9/1/2027	15.711	15.64	2.1771	2027
10/1/2027	15.417	15.64	2.1371	2027
11/1/2027	15.158	15.64	2.1020	2027
12/1/2027	15.186	15.64	2.1065	2027
1/1/2028	15.351	16.39	2.1302	2028
2/1/2028	15.371	16.39	2.1337	2028
3/1/2028	15.391	16.39	2.1372	2028
4/1/2028	15.411	16.39	2.1408	2028
5/1/2028	15.431	16.39	2.1443	2028
6/1/2028	15.451	16.39	2.1190	2028
7/1/2028	15.383	16.39	2.1197	2028
8/1/2028	15.383	16.39	2.1205	2028
9/1/2028	16.025	16.39	2.2098	2028
10/1/2028	15.725	16.39	2.1691	2028
11/1/2028	15.461	16.39	2.1335	2028
12/1/2028	15.489	16.39	2.1381	2028
1/1/2029	15.658	17.07	2.1621	2029
2/1/2029	15.678	17.07	2.1657	2029
3/1/2029	15.699	17.07	2.1693	2029

4/1/2029	15.719	17.07	2.1729	2029
5/1/2029	15.740	17.07	2.1765	2029
6/1/2029	15.760	17.07	2.1508	2029
7/1/2029	15.691	17.07	2.1515	2029
8/1/2029	15.690	17.07	2.1523	2029
9/1/2029	16.346	17.07	2.2429	2029
10/1/2029	16.040	17.07	2.2017	2029
11/1/2029	15.770	17.07	2.1655	2029
12/1/2029	15.799	17.07	2.1702	2029
1/1/2030	15.971	17.50	2.1945	2030
2/1/2030	15.992	17.50	2.1982	2030
3/1/2030	16.013	17.50	2.2018	2030
4/1/2030	16.034	17.50	2.2055	2030
5/1/2030	16.054	17.50	2.2091	2030
6/1/2030	16.075	17.50	2.1831	2030
7/1/2030	16.004	17.50	2.1838	2030
8/1/2030	16.004	17.50	2.1845	2030
9/1/2030	16.673	17.50	2.2766	2030
10/1/2030	16.360	17.50	2.2347	2030
11/1/2030	16.086	17.50	2.1980	2030
12/1/2030	16.115	17.50	2.2027	2030
1/1/2031	16.290	17.89	2.2275	2031
2/1/2031	16.312	17.89	2.2312	2031
3/1/2031	16.333	17.89	2.2348	2031
4/1/2031	16.354	17.89	2.2385	2031
5/1/2031	16.376	17.89	2.2422	2031
6/1/2031	16.397	17.89	2.2158	2031
7/1/2031	16.325	17.89	2.2166	2031
8/1/2031	16.324	17.89	2.2173	2031
9/1/2031	17.006	17.89	2.3107	2031
10/1/2031	16.688	17.89	2.2682	2031
11/1/2031	16.408	17.89	2.2310	2031
12/1/2031	16.437	17.89	2.2358	2031
1/1/2032	16.616	18.30	2.2609	2032
2/1/2032	16.638	18.30	2.2646	2032
3/1/2032	16.660	18.30	2.2684	2032
4/1/2032	16.681	18.30	2.2721	2032
5/1/2032	16.703	18.30	2.2759	2032
6/1/2032	16.725	18.30	2.2491	2032
7/1/2032	16.651	18.30	2.2498	2032
8/1/2032	16.651	18.30	2.2506	2032
9/1/2032	17.346	18.30	2.3454	2032
10/1/2032	17.021	18.30	2.3023	2032
11/1/2032	16.736	18.30	2.2644	2032
12/1/2032	16.766	18.30	2.2693	2032
1/1/2033	16.948	18.73	2.2948	2033
2/1/2033	16.971	18.73	2.2986	2033
3/1/2033	16.993	18.73	2.3024	2033
4/1/2033	17.015	18.73	2.3062	2033
5/1/2033	17.037	18.73	2.3100	2033
6/1/2033	17.059	18.73	2.2828	2033
7/1/2033	16.984	18.73	2.2836	2033
8/1/2033	16.984	18.73	2.2843	2033
9/1/2033	17.693	18.73	2.3806	2033
10/1/2033	17.362	18.73	2.3368	2033
11/1/2033	17.070	18.73	2.2984	2033
12/1/2033	17.101	18.73	2.3034	2033
1/1/2034	17.287	19.16	2.3292	2034
2/1/2034	17.310	19.16	2.3331	2034

3/1/2034	17.333	19.16	2.3369	2034
4/1/2034	17.355	19.16	2.3408	2034
5/1/2034	17.378	19.16	2.3447	2034
6/1/2034	17.400	19.16	2.3170	2034
7/1/2034	17.324	19.16	2.3178	2034
8/1/2034	17.323	19.16	2.3186	2034
9/1/2034	18.047	19.16	2.4163	2034
10/1/2034	17.709	19.16	2.3718	2034
11/1/2034	17.412	19.16	2.3329	2034
12/1/2034	17.443	19.16	2.3379	2034
1/1/2035	17.633	19.60	2.3641	2035
2/1/2035	17.656	19.60	2.3681	2035
3/1/2035	17.679	19.60	2.3720	2035
4/1/2035	17.702	19.60	2.3759	2035
5/1/2035	17.725	19.60	2.3798	2035
6/1/2035	17.748	19.60	2.3518	2035
7/1/2035	17.670	19.60	2.3526	2035
8/1/2035	17.670	19.60	2.3534	2035
9/1/2035	18.408	19.60	2.4525	2035
10/1/2035	18.063	19.60	2.4074	2035
11/1/2035	17.760	19.60	2.3679	2035
12/1/2035	17.792	19.60	2.3730	2035
1/1/2036	17.986	20.05	2.3996	2036
2/1/2036	18.009	20.05	2.4036	2036
3/1/2036	18.033	20.05	2.4076	2036
4/1/2036	18.056	20.05	2.4116	2036
5/1/2036	18.080	20.05	2.4155	2036
6/1/2036	18.103	20.05	2.3871	2036
7/1/2036	18.024	20.05	2.3879	2036
8/1/2036	18.023	20.05	2.3887	2036
9/1/2036	18.776	20.05	2.4893	2036
10/1/2036	18.424	20.05	2.4435	2036
11/1/2036	18.115	20.05	2.4034	2036
12/1/2036	18.148	20.05	2.4086	2036
1/1/2037	18.345	20.52	2.4356	2037
2/1/2037	18.369	20.52	2.4396	2037
3/1/2037	18.393	20.52	2.4437	2037
4/1/2037	18.418	20.52	2.4477	2037
5/1/2037	18.442	20.52	2.4518	2037
6/1/2037	18.466	20.52	2.4229	2037
7/1/2037	18.384	20.52	2.4237	2037
8/1/2037	18.384	20.52	2.4245	2037
9/1/2037	19.152	20.52	2.5266	2037
10/1/2037	18.793	20.52	2.4802	2037
11/1/2037	18.478	20.52	2.4394	2037
12/1/2037	18.511	20.52	2.4447	2037
1/1/2038	18.712	20.91	2.4721	2038
2/1/2038	18.737	20.91	2.4762	2038
3/1/2038	18.761	20.91	2.4803	2038
4/1/2038	18.786	20.91	2.4844	2038
5/1/2038	18.810	20.91	2.4885	2038
6/1/2038	18.835	20.91	2.4592	2038
7/1/2038	18.752	20.91	2.4600	2038
8/1/2038	18.751	20.91	2.4609	2038
9/1/2038	19.535	20.91	2.5645	2038
10/1/2038	19.169	20.91	2.5174	2038
11/1/2038	18.847	20.91	2.4760	2038
12/1/2038	18.881	20.91	2.4814	2038
1/1/2039	19.087	21.29	2.5092	2039

2/1/2039	19.112	21.29	2.5134	2039
3/1/2039	19.137	21.29	2.5175	2039
4/1/2039	19.162	21.29	2.5217	2039
5/1/2039	19.187	21.29	2.5259	2039
6/1/2039	19.212	21.29	2.4961	2039
7/1/2039	19.127	21.29	2.4969	2039
8/1/2039	19.127	21.29	2.4978	2039
9/1/2039	19.925	21.29	2.6030	2039
10/1/2039	19.552	21.29	2.5551	2039
11/1/2039	19.224	21.29	2.5132	2039
12/1/2039	19.259	21.29	2.5186	2039
1/1/2040	19.468	21.42	2.5469	2040
2/1/2040	19.494	21.42	2.5511	2040
3/1/2040	19.519	21.42	2.5553	2040
4/1/2040	19.545	21.42	2.5595	2040
5/1/2040	19.570	21.42	2.5638	2040
6/1/2040	19.596	21.42	2.5336	2040
7/1/2040	19.509	21.42	2.5344	2040
8/1/2040	19.509	21.42	2.5352	2040
9/1/2040	20.324	21.42	2.6421	2040
10/1/2040	19.943	21.42	2.5935	2040
11/1/2040	19.609	21.42	2.5509	2040
12/1/2040	19.644	21.42	2.5564	2040
1/1/2041	19.858	21.98	2.5851	2041
2/1/2041	19.884	21.98	2.5893	2041
3/1/2041	19.910	21.98	2.5936	2041
4/1/2041	19.936	21.98	2.5979	2041
5/1/2041	19.962	21.98	2.6022	2041
6/1/2041	19.988	21.98	2.5716	2041
7/1/2041	19.900	21.98	2.5724	2041
8/1/2041	19.899	21.98	2.5733	2041
9/1/2041	20.730	21.98	2.6817	2041
10/1/2041	20.342	21.98	2.6324	2041
11/1/2041	20.001	21.98	2.5891	2041
12/1/2041	20.037	21.98	2.5947	2041
1/1/2042	20.255	22.55	2.6238	2042
2/1/2042	20.281	22.55	2.6282	2042
3/1/2042	20.308	22.55	2.6325	2042
4/1/2042	20.334	22.55	2.6369	2042
5/1/2042	20.361	22.55	2.6413	2042
6/1/2042	20.387	22.55	2.6101	2042
7/1/2042	20.298	22.55	2.6110	2042
8/1/2042	20.297	22.55	2.6119	2042
9/1/2042	21.145	22.55	2.7219	2042
10/1/2042	20.749	22.55	2.6719	2042
11/1/2042	20.401	22.55	2.6280	2042
12/1/2042	20.438	22.55	2.6336	2042
1/1/2043	20.660	22.74	2.6632	2043
2/1/2043	20.687	22.74	2.6676	2043
3/1/2043	20.714	22.74	2.6720	2043
4/1/2043	20.741	22.74	2.6764	2043
5/1/2043	20.768	22.74	2.6809	2043
6/1/2043	20.795	22.74	2.6493	2043
7/1/2043	20.703	22.74	2.6502	2043
8/1/2043	20.703	22.74	2.6511	2043
9/1/2043	21.568	22.74	2.7627	2043
10/1/2043	21.164	22.74	2.7119	2043
11/1/2043	20.809	22.74	2.6674	2043
12/1/2043	20.847	22.74	2.6731	2043

1/1/2044	21.073	23.33	2.7031	2044
2/1/2044	21.101	23.33	2.7076	2044
3/1/2044	21.128	23.33	2.7121	2044
4/1/2044	21.156	23.33	2.7166	2044
5/1/2044	21.184	23.33	2.7211	2044
6/1/2044	21.211	23.33	2.6890	2044
7/1/2044	21.118	23.33	2.6899	2044
8/1/2044	21.117	23.33	2.6908	2044
9/1/2044	21.999	23.33	2.8042	2044
10/1/2044	21.587	23.33	2.7526	2044
11/1/2044	21.225	23.33	2.7074	2044
12/1/2044	21.264	23.33	2.7132	2044
1/1/2045	21.495	23.52	2.7437	2045
2/1/2045	21.523	23.52	2.7482	2045
3/1/2045	21.551	23.52	2.7528	2045
4/1/2045	21.579	23.52	2.7573	2045
5/1/2045	21.607	23.52	2.7619	2045
6/1/2045	21.635	23.52	2.7294	2045
7/1/2045	21.540	23.52	2.7303	2045
8/1/2045	21.540	23.52	2.7312	2045
9/1/2045	22.439	23.52	2.8462	2045
10/1/2045	22.019	23.52	2.7939	2045
11/1/2045	21.649	23.52	2.7480	2045
12/1/2045	21.689	23.52	2.7539	2045
1/1/2046	21.925	24.12	2.7848	2046
2/1/2046	21.953	24.12	2.7895	2046
3/1/2046	21.982	24.12	2.7941	2046
4/1/2046	22.011	24.12	2.7987	2046
5/1/2046	22.039	24.12	2.8033	2046
6/1/2046	22.068	24.12	2.7703	2046
7/1/2046	21.971	24.12	2.7712	2046
8/1/2046	21.970	24.12	2.7722	2046
9/1/2046	22.888	24.12	2.8889	2046
10/1/2046	22.459	24.12	2.8358	2046
11/1/2046	22.082	24.12	2.7892	2046
12/1/2046	22.123	24.12	2.7953	2046
1/1/2047	22.363	24.73	2.8266	2047
2/1/2047	22.392	24.73	2.8313	2047
3/1/2047	22.422	24.73	2.8360	2047
4/1/2047	22.451	24.73	2.8407	2047
5/1/2047	22.480	24.73	2.8454	2047
6/1/2047	22.509	24.73	2.8119	2047
7/1/2047	22.410	24.73	2.8128	2047
8/1/2047	22.410	24.73	2.8137	2047
9/1/2047	23.346	24.73	2.9323	2047
10/1/2047	22.908	24.73	2.8784	2047
11/1/2047	22.524	24.73	2.8310	2047
12/1/2047	22.565	24.73	2.8372	2047
1/1/2048	22.810	24.91	2.8690	2048
2/1/2048	22.840	24.91	2.8738	2048
3/1/2048	22.870	24.91	2.8785	2048
4/1/2048	22.900	24.91	2.8833	2048
5/1/2048	22.930	24.91	2.8881	2048
6/1/2048	22.960	24.91	2.8540	2048
7/1/2048	22.858	24.91	2.8550	2048
8/1/2048	22.858	24.91	2.8559	2048
9/1/2048	23.813	24.91	2.9763	2048
10/1/2048	23.367	24.91	2.9215	2048
11/1/2048	22.975	24.91	2.8735	2048

12/1/2048	23.016	24.91	2.8797	2048
1/1/2049	23.266	25.53	2.9121	2049
2/1/2049	23.297	25.53	2.9169	2049
3/1/2049	23.327	25.53	2.9217	2049
4/1/2049	23.358	25.53	2.9265	2049
5/1/2049	23.388	25.53	2.9314	2049
6/1/2049	23.419	25.53	2.8968	2049
7/1/2049	23.315	25.53	2.8978	2049
8/1/2049	23.315	25.53	2.8988	2049
9/1/2049	24.289	25.53	3.0209	2049
10/1/2049	23.834	25.53	2.9654	2049
11/1/2049	23.434	25.53	2.9166	2049
12/1/2049	23.477	25.53	2.9229	2049
1/1/2050	23.732	25.53	2.9557	2050
2/1/2050	23.763	25.53	2.9606	2050
3/1/2050	23.794	25.53	2.9655	2050
4/1/2050	23.825	25.53	2.9704	2050
5/1/2050	23.856	25.53	2.9753	2050
6/1/2050	23.887	25.53	2.9403	2050
7/1/2050	23.782	25.53	2.9413	2050
8/1/2050	23.781	25.53	2.9423	2050
9/1/2050	24.775	25.53	3.0662	2050
10/1/2050	24.311	25.53	3.0098	2050
11/1/2050	23.903	25.53	2.9604	2050
12/1/2050	23.946	25.53	2.9668	2050

Avon Park

PETROLEUM PRODUCT PRICE FORECAST DATA

Date	Petroleum Product Price Forecast - Gulf Coast	TCM	Blend TCM/ Fundamental (%)	Blend TCM/ Fundamental ($)	Avon Park Transport ($/MMBtu)
1/1/2019	14.62	12.93	100%	12.93	0.752
2/1/2019	14.62	13.87	100%	13.87	0.752
3/1/2019	14.62	13.78	100%	13.78	0.752
4/1/2019	14.62	14.33	100%	14.33	0.752
5/1/2019	14.62	14.29	100%	14.29	0.752
6/1/2019	14.62	13.17	100%	13.17	0.752
7/1/2019	14.62	13.86	100%	13.86	0.752
8/1/2019	14.62	13.04	100%	13.04	0.752
9/1/2019	14.62	13.58	100%	13.58	0.752
10/1/2019	14.62	13.31	100%	13.31	0.752
11/1/2019	14.62	13.08	100%	13.08	0.752
12/1/2019	14.62	13.09	100%	13.09	0.752
1/1/2020	13.66	13.80	100%	13.80	0.763
2/1/2020	13.66	14.09	100%	14.09	0.763
3/1/2020	13.66	14.60	100%	14.60	0.763
4/1/2020	13.66	14.42	100%	14.42	0.763
5/1/2020	13.66	13.11	100%	13.11	0.763
6/1/2020	13.66	13.60	100%	13.60	0.763
7/1/2020	13.66	12.98	100%	12.98	0.763
8/1/2020	13.66	13.82	100%	13.82	0.763
9/1/2020	13.66	13.64	100%	13.64	0.763
10/1/2020	13.66	13.38	100%	13.38	0.763
11/1/2020	13.66	13.16	100%	13.16	0.763
12/1/2020	13.66	13.18	100%	13.18	0.763
1/1/2021	13.38	13.24	100%	13.24	0.775
2/1/2021	13.38	13.26	100%	13.26	0.775
3/1/2021	13.38	13.28	100%	13.28	0.775
4/1/2021	13.38	13.30	100%	13.30	0.775
5/1/2021	13.38	13.31	100%	13.31	0.775
6/1/2021	13.38	13.33	100%	13.33	0.775
7/1/2021	13.38	13.33	100%	13.33	0.775
8/1/2021	13.38	13.33	100%	13.33	0.775
9/1/2021	13.38	13.89	100%	13.89	0.775
10/1/2021	13.38	13.63	100%	13.63	0.775
11/1/2021	13.38	13.40	100%	13.40	0.775
12/1/2021	13.38	13.42	100%	13.42	0.775
1/1/2022	13.44	13.57	96%	13.57	0.787
2/1/2022	13.44	13.59	92%	13.58	0.787
3/1/2022	13.44	13.61	88%	13.59	0.787
4/1/2022	13.44	13.62	84%	13.60	0.787
5/1/2022	13.44	13.64	80%	13.60	0.787
6/1/2022	13.44	13.66	76%	13.61	0.787
7/1/2022	13.44	13.66	72%	13.60	0.787
8/1/2022	13.44	13.66	68%	13.59	0.787
9/1/2022	13.44	14.23	64%	13.95	0.787
10/1/2022	13.44	13.96	60%	13.76	0.787
11/1/2022	13.44	13.73	56%	13.60	0.787
12/1/2022	13.44	13.75	52%	13.60	0.787
1/1/2023	13.75	13.90	48%	13.82	0.798
2/1/2023	13.75	13.92	44%	13.83	0.798
3/1/2023	13.75	13.94	40%	13.83	0.798
4/1/2023	13.75	13.96	36%	13.82	0.798
5/1/2023	13.75	13.98	32%	13.82	0.798
6/1/2023	13.75	13.99	28%	13.82	0.798
7/1/2023	13.75	13.93	24%	13.79	0.798
8/1/2023	13.75	13.93	20%	13.79	0.798
9/1/2023	13.75	14.51	16%	13.87	0.798
10/1/2023	13.75	14.24	12%	13.81	0.798
11/1/2023	13.75	14.00	8%	13.77	0.798
12/1/2023	13.75	14.03	4%	13.76	0.798
1/1/2024	14.08	14.18	0%	14.08	0.810
2/1/2024	14.08	14.20	0%	14.08	0.810
3/1/2024	14.08	14.22	0%	14.08	0.810
4/1/2024	14.08	14.24	0%	14.08	0.810
5/1/2024	14.08	14.26	0%	14.08	0.810

PROSYM INPUT

Date	nomianl$/MMBtu
1/1/2019	13.68
2/1/2019	14.62
3/1/2019	14.53
4/1/2019	15.08
5/1/2019	15.04
6/1/2019	13.92
7/1/2019	14.61
8/1/2019	13.80
9/1/2019	14.33
10/1/2019	14.06
11/1/2019	13.83
12/1/2019	13.84
1/1/2020	14.57
2/1/2020	14.86
3/1/2020	15.36
4/1/2020	15.19
5/1/2020	13.87
6/1/2020	14.36
7/1/2020	13.75
8/1/2020	14.58
9/1/2020	14.40
10/1/2020	14.14
11/1/2020	13.92
12/1/2020	13.94
1/1/2021	14.02
2/1/2021	14.04
3/1/2021	14.05
4/1/2021	14.07
5/1/2021	14.09
6/1/2021	14.11
7/1/2021	14.11
8/1/2021	14.11
9/1/2021	14.66
10/1/2021	14.40
11/1/2021	14.17
12/1/2021	14.20
1/1/2022	14.35
2/1/2022	14.36
3/1/2022	14.37
4/1/2022	14.38
5/1/2022	14.39
6/1/2022	14.39
7/1/2022	14.39
8/1/2022	14.38
9/1/2022	14.73
10/1/2022	14.54
11/1/2022	14.39
12/1/2022	14.39
1/1/2023	14.62
2/1/2023	14.62
3/1/2023	14.62
4/1/2023	14.62
5/1/2023	14.62
6/1/2023	14.62
7/1/2023	14.59
8/1/2023	14.58
9/1/2023	14.67
10/1/2023	14.61
11/1/2023	14.57
12/1/2023	14.56
1/1/2024	14.89
2/1/2024	14.89
3/1/2024	14.89
4/1/2024	14.89
5/1/2024	14.89

ANNUAL AVERAGE

		Avon Park
2019	2019	14.28
2019	2020	14.41
2019	2021	14.17
2019	2022	14.42
2019	2023	14.61
2019	2024	14.89
2019	2025	15.26
2019	2026	15.83
2019	2027	16.49
2019	2028	17.25
2019	2029	17.94
2019	2030	18.38
2020	2031	18.79
2020	2032	19.21
2020	2033	19.65
2020	2034	20.10
2020	2035	20.55
2020	2036	21.02
2020	2037	21.50
2020	2038	21.90
2020	2039	22.30
2020	2040	22.45
2020	2041	23.02
2020	2042	23.61
2021	2043	23.81
2021	2044	24.42
2021	2045	24.62
2021	2046	25.24
2021	2047	25.87
2021	2048	26.06
2021	2049	26.71
2021	2050	26.72
2021		
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6/1/2024	14.08	14.27	0%	14.08	0.810	6/1/2024	14.89	2024
7/1/2024	14.08	14.21	0%	14.08	0.810	7/1/2024	14.89	2024
8/1/2024	14.08	14.21	0%	14.08	0.810	8/1/2024	14.89	2024
9/1/2024	14.08	14.80	0%	14.08	0.810	9/1/2024	14.89	2024
10/1/2024	14.08	14.53	0%	14.08	0.810	10/1/2024	14.89	2024
11/1/2024	14.08	14.28	0%	14.08	0.810	11/1/2024	14.89	2024
12/1/2024	14.08	14.31	0%	14.08	0.810	12/1/2024	14.89	2024
1/1/2025	14.43	14.47	0%	14.43	0.822	1/1/2025	15.26	2025
2/1/2025	14.43	14.48	0%	14.43	0.822	2/1/2025	15.26	2025
3/1/2025	14.43	14.50	0%	14.43	0.822	3/1/2025	15.26	2025
4/1/2025	14.43	14.52	0%	14.43	0.822	4/1/2025	15.26	2025
5/1/2025	14.43	14.54	0%	14.43	0.822	5/1/2025	15.26	2025
6/1/2025	14.43	14.56	0%	14.43	0.822	6/1/2025	15.26	2025
7/1/2025	14.43	14.50	0%	14.43	0.822	7/1/2025	15.26	2025
8/1/2025	14.43	14.50	0%	14.43	0.822	8/1/2025	15.26	2025
9/1/2025	14.43	15.10	0%	14.43	0.822	9/1/2025	15.26	2025
10/1/2025	14.43	14.82	0%	14.43	0.822	10/1/2025	15.26	2025
11/1/2025	14.43	14.57	0%	14.43	0.822	11/1/2025	15.26	2025
12/1/2025	14.43	14.60	0%	14.43	0.822	12/1/2025	15.26	2025
1/1/2026	15.00	14.75	0%	15.00	0.835	1/1/2026	15.83	2026
2/1/2026	15.00	14.77	0%	15.00	0.835	2/1/2026	15.83	2026
3/1/2026	15.00	14.79	0%	15.00	0.835	3/1/2026	15.83	2026
4/1/2026	15.00	14.81	0%	15.00	0.835	4/1/2026	15.83	2026
5/1/2026	15.00	14.83	0%	15.00	0.835	5/1/2026	15.83	2026
6/1/2026	15.00	14.85	0%	15.00	0.835	6/1/2026	15.83	2026
7/1/2026	15.00	14.79	0%	15.00	0.835	7/1/2026	15.83	2026
8/1/2026	15.00	14.79	0%	15.00	0.835	8/1/2026	15.83	2026
9/1/2026	15.00	15.40	0%	15.00	0.835	9/1/2026	15.83	2026
10/1/2026	15.00	15.11	0%	15.00	0.835	10/1/2026	15.83	2026
11/1/2026	15.00	14.86	0%	15.00	0.835	11/1/2026	15.83	2026
12/1/2026	15.00	14.89	0%	15.00	0.835	12/1/2026	15.83	2026
1/1/2027	15.64	15.05	0%	15.64	0.847	1/1/2027	16.49	2027
2/1/2027	15.64	15.07	0%	15.64	0.847	2/1/2027	16.49	2027
3/1/2027	15.64	15.09	0%	15.64	0.847	3/1/2027	16.49	2027
4/1/2027	15.64	15.11	0%	15.64	0.847	4/1/2027	16.49	2027
5/1/2027	15.64	15.13	0%	15.64	0.847	5/1/2027	16.49	2027
6/1/2027	15.64	15.15	0%	15.64	0.847	6/1/2027	16.49	2027
7/1/2027	15.64	15.08	0%	15.64	0.847	7/1/2027	16.49	2027
8/1/2027	15.64	15.08	0%	15.64	0.847	8/1/2027	16.49	2027
9/1/2027	15.64	15.71	0%	15.64	0.847	9/1/2027	16.49	2027
10/1/2027	15.64	15.42	0%	15.64	0.847	10/1/2027	16.49	2027
11/1/2027	15.64	15.16	0%	15.64	0.847	11/1/2027	16.49	2027
12/1/2027	15.64	15.19	0%	15.64	0.847	12/1/2027	16.49	2027
1/1/2028	16.39	15.35	0%	16.39	0.860	1/1/2028	17.25	2028
2/1/2028	16.39	15.37	0%	16.39	0.860	2/1/2028	17.25	2028
3/1/2028	16.39	15.39	0%	16.39	0.860	3/1/2028	17.25	2028
4/1/2028	16.39	15.41	0%	16.39	0.860	4/1/2028	17.25	2028
5/1/2028	16.39	15.43	0%	16.39	0.860	5/1/2028	17.25	2028
6/1/2028	16.39	15.45	0%	16.39	0.860	6/1/2028	17.25	2028
7/1/2028	16.39	15.38	0%	16.39	0.860	7/1/2028	17.25	2028
8/1/2028	16.39	15.38	0%	16.39	0.860	8/1/2028	17.25	2028
9/1/2028	16.39	16.03	0%	16.39	0.860	9/1/2028	17.25	2028
10/1/2028	16.39	15.73	0%	16.39	0.860	10/1/2028	17.25	2028
11/1/2028	16.39	15.46	0%	16.39	0.860	11/1/2028	17.25	2028
12/1/2028	16.39	15.49	0%	16.39	0.860	12/1/2028	17.25	2028
1/1/2029	17.07	15.66	0%	17.07	0.873	1/1/2029	17.94	2029
2/1/2029	17.07	15.68	0%	17.07	0.873	2/1/2029	17.94	2029
3/1/2029	17.07	15.70	0%	17.07	0.873	3/1/2029	17.94	2029
4/1/2029	17.07	15.72	0%	17.07	0.873	4/1/2029	17.94	2029
5/1/2029	17.07	15.74	0%	17.07	0.873	5/1/2029	17.94	2029
6/1/2029	17.07	15.76	0%	17.07	0.873	6/1/2029	17.94	2029
7/1/2029	17.07	15.69	0%	17.07	0.873	7/1/2029	17.94	2029
8/1/2029	17.07	15.69	0%	17.07	0.873	8/1/2029	17.94	2029
9/1/2029	17.07	16.35	0%	17.07	0.873	9/1/2029	17.94	2029
10/1/2029	17.07	16.04	0%	17.07	0.873	10/1/2029	17.94	2029
11/1/2029	17.07	15.77	0%	17.07	0.873	11/1/2029	17.94	2029
12/1/2029	17.07	15.80	0%	17.07	0.873	12/1/2029	17.94	2029
1/1/2030	17.50	15.97	0%	17.50	0.886	1/1/2030	18.38	2030
2/1/2030	17.50	15.99	0%	17.50	0.886	2/1/2030	18.38	2030
3/1/2030	17.50	16.01	0%	17.50	0.886	3/1/2030	18.38	2030
4/1/2030	17.50	16.03	0%	17.50	0.886	4/1/2030	18.38	2030

5/1/2030	17.50	16.05	0%	17.50	0.886	5/1/2030	18.38	2030
6/1/2030	17.50	16.08	0%	17.50	0.886	6/1/2030	18.38	2030
7/1/2030	17.50	16.00	0%	17.50	0.886	7/1/2030	18.38	2030
8/1/2030	17.50	16.00	0%	17.50	0.886	8/1/2030	18.38	2030
9/1/2030	17.50	16.67	0%	17.50	0.886	9/1/2030	18.38	2030
10/1/2030	17.50	16.36	0%	17.50	0.886	10/1/2030	18.38	2030
11/1/2030	17.50	16.09	0%	17.50	0.886	11/1/2030	18.38	2030
12/1/2030	17.50	16.12	0%	17.50	0.886	12/1/2030	18.38	2030
1/1/2031	17.89	16.29	0%	17.89	0.899	1/1/2031	18.79	2031
2/1/2031	17.89	16.31	0%	17.89	0.899	2/1/2031	18.79	2031
3/1/2031	17.89	16.33	0%	17.89	0.899	3/1/2031	18.79	2031
4/1/2031	17.89	16.35	0%	17.89	0.899	4/1/2031	18.79	2031
5/1/2031	17.89	16.38	0%	17.89	0.899	5/1/2031	18.79	2031
6/1/2031	17.89	16.40	0%	17.89	0.899	6/1/2031	18.79	2031
7/1/2031	17.89	16.32	0%	17.89	0.899	7/1/2031	18.79	2031
8/1/2031	17.89	16.32	0%	17.89	0.899	8/1/2031	18.79	2031
9/1/2031	17.89	17.01	0%	17.89	0.899	9/1/2031	18.79	2031
10/1/2031	17.89	16.69	0%	17.89	0.899	10/1/2031	18.79	2031
11/1/2031	17.89	16.41	0%	17.89	0.899	11/1/2031	18.79	2031
12/1/2031	17.89	16.44	0%	17.89	0.899	12/1/2031	18.79	2031
1/1/2032	18.30	16.62	0%	18.30	0.913	1/1/2032	19.21	2032
2/1/2032	18.30	16.64	0%	18.30	0.913	2/1/2032	19.21	2032
3/1/2032	18.30	16.66	0%	18.30	0.913	3/1/2032	19.21	2032
4/1/2032	18.30	16.68	0%	18.30	0.913	4/1/2032	19.21	2032
5/1/2032	18.30	16.70	0%	18.30	0.913	5/1/2032	19.21	2032
6/1/2032	18.30	16.72	0%	18.30	0.913	6/1/2032	19.21	2032
7/1/2032	18.30	16.65	0%	18.30	0.913	7/1/2032	19.21	2032
8/1/2032	18.30	16.65	0%	18.30	0.913	8/1/2032	19.21	2032
9/1/2032	18.30	17.35	0%	18.30	0.913	9/1/2032	19.21	2032
10/1/2032	18.30	17.02	0%	18.30	0.913	10/1/2032	19.21	2032
11/1/2032	18.30	16.74	0%	18.30	0.913	11/1/2032	19.21	2032
12/1/2032	18.30	16.77	0%	18.30	0.913	12/1/2032	19.21	2032
1/1/2033	18.73	16.95	0%	18.73	0.926	1/1/2033	19.65	2033
2/1/2033	18.73	16.97	0%	18.73	0.926	2/1/2033	19.65	2033
3/1/2033	18.73	16.99	0%	18.73	0.926	3/1/2033	19.65	2033
4/1/2033	18.73	17.01	0%	18.73	0.926	4/1/2033	19.65	2033
5/1/2033	18.73	17.04	0%	18.73	0.926	5/1/2033	19.65	2033
6/1/2033	18.73	17.06	0%	18.73	0.926	6/1/2033	19.65	2033
7/1/2033	18.73	16.98	0%	18.73	0.926	7/1/2033	19.65	2033
8/1/2033	18.73	16.98	0%	18.73	0.926	8/1/2033	19.65	2033
9/1/2033	18.73	17.69	0%	18.73	0.926	9/1/2033	19.65	2033
10/1/2033	18.73	17.36	0%	18.73	0.926	10/1/2033	19.65	2033
11/1/2033	18.73	17.07	0%	18.73	0.926	11/1/2033	19.65	2033
12/1/2033	18.73	17.10	0%	18.73	0.926	12/1/2033	19.65	2033
1/1/2034	19.16	17.29	0%	19.16	0.940	1/1/2034	20.10	2034
2/1/2034	19.16	17.31	0%	19.16	0.940	2/1/2034	20.10	2034
3/1/2034	19.16	17.33	0%	19.16	0.940	3/1/2034	20.10	2034
4/1/2034	19.16	17.36	0%	19.16	0.940	4/1/2034	20.10	2034
5/1/2034	19.16	17.38	0%	19.16	0.940	5/1/2034	20.10	2034
6/1/2034	19.16	17.40	0%	19.16	0.940	6/1/2034	20.10	2034
7/1/2034	19.16	17.32	0%	19.16	0.940	7/1/2034	20.10	2034
8/1/2034	19.16	17.32	0%	19.16	0.940	8/1/2034	20.10	2034
9/1/2034	19.16	18.05	0%	19.16	0.940	9/1/2034	20.10	2034
10/1/2034	19.16	17.71	0%	19.16	0.940	10/1/2034	20.10	2034
11/1/2034	19.16	17.41	0%	19.16	0.940	11/1/2034	20.10	2034
12/1/2034	19.16	17.44	0%	19.16	0.940	12/1/2034	20.10	2034
1/1/2035	19.60	17.63	0%	19.60	0.954	1/1/2035	20.55	2035
2/1/2035	19.60	17.66	0%	19.60	0.954	2/1/2035	20.55	2035
3/1/2035	19.60	17.68	0%	19.60	0.954	3/1/2035	20.55	2035
4/1/2035	19.60	17.70	0%	19.60	0.954	4/1/2035	20.55	2035
5/1/2035	19.60	17.73	0%	19.60	0.954	5/1/2035	20.55	2035
6/1/2035	19.60	17.75	0%	19.60	0.954	6/1/2035	20.55	2035
7/1/2035	19.60	17.67	0%	19.60	0.954	7/1/2035	20.55	2035
8/1/2035	19.60	17.67	0%	19.60	0.954	8/1/2035	20.55	2035
9/1/2035	19.60	18.41	0%	19.60	0.954	9/1/2035	20.55	2035
10/1/2035	19.60	18.06	0%	19.60	0.954	10/1/2035	20.55	2035
11/1/2035	19.60	17.76	0%	19.60	0.954	11/1/2035	20.55	2035
12/1/2035	19.60	17.79	0%	19.60	0.954	12/1/2035	20.55	2035
1/1/2036	20.05	17.99	0%	20.05	0.954	1/1/2036	21.00	2036
2/1/2036	20.05	18.01	0%	20.05	0.954	2/1/2036	21.00	2036
3/1/2036	20.05	18.03	0%	20.05	0.968	3/1/2036	21.02	2036

4/1/2036	20.05	18.06	0%	20.05	0.968	4/1/2036	21.02	2036
5/1/2036	20.05	18.08	0%	20.05	0.968	5/1/2036	21.02	2036
6/1/2036	20.05	18.10	0%	20.05	0.968	6/1/2036	21.02	2036
7/1/2036	20.05	18.02	0%	20.05	0.968	7/1/2036	21.02	2036
8/1/2036	20.05	18.02	0%	20.05	0.968	8/1/2036	21.02	2036
9/1/2036	20.05	18.78	0%	20.05	0.968	9/1/2036	21.02	2036
10/1/2036	20.05	18.42	0%	20.05	0.968	10/1/2036	21.02	2036
11/1/2036	20.05	18.12	0%	20.05	0.968	11/1/2036	21.02	2036
12/1/2036	20.05	18.15	0%	20.05	0.968	12/1/2036	21.02	2036
1/1/2037	20.52	18.35	0%	20.52	0.968	1/1/2037	21.49	2037
2/1/2037	20.52	18.37	0%	20.52	0.968	2/1/2037	21.49	2037
3/1/2037	20.52	18.39	0%	20.52	0.983	3/1/2037	21.50	2037
4/1/2037	20.52	18.42	0%	20.52	0.983	4/1/2037	21.50	2037
5/1/2037	20.52	18.44	0%	20.52	0.983	5/1/2037	21.50	2037
6/1/2037	20.52	18.47	0%	20.52	0.983	6/1/2037	21.50	2037
7/1/2037	20.52	18.38	0%	20.52	0.983	7/1/2037	21.50	2037
8/1/2037	20.52	18.38	0%	20.52	0.983	8/1/2037	21.50	2037
9/1/2037	20.52	19.15	0%	20.52	0.983	9/1/2037	21.50	2037
10/1/2037	20.52	18.79	0%	20.52	0.983	10/1/2037	21.50	2037
11/1/2037	20.52	18.48	0%	20.52	0.983	11/1/2037	21.50	2037
12/1/2037	20.52	18.51	0%	20.52	0.983	12/1/2037	21.50	2037
1/1/2038	20.91	18.71	0%	20.91	0.983	1/1/2038	21.89	2038
2/1/2038	20.91	18.74	0%	20.91	0.983	2/1/2038	21.89	2038
3/1/2038	20.91	18.76	0%	20.91	0.998	3/1/2038	21.91	2038
4/1/2038	20.91	18.79	0%	20.91	0.998	4/1/2038	21.91	2038
5/1/2038	20.91	18.81	0%	20.91	0.998	5/1/2038	21.91	2038
6/1/2038	20.91	18.83	0%	20.91	0.998	6/1/2038	21.91	2038
7/1/2038	20.91	18.75	0%	20.91	0.998	7/1/2038	21.91	2038
8/1/2038	20.91	18.75	0%	20.91	0.998	8/1/2038	21.91	2038
9/1/2038	20.91	19.53	0%	20.91	0.998	9/1/2038	21.91	2038
10/1/2038	20.91	19.17	0%	20.91	0.998	10/1/2038	21.91	2038
11/1/2038	20.91	18.85	0%	20.91	0.998	11/1/2038	21.91	2038
12/1/2038	20.91	18.88	0%	20.91	0.998	12/1/2038	21.91	2038
1/1/2039	21.29	19.09	0%	21.29	0.998	1/1/2039	22.28	2039
2/1/2039	21.29	19.11	0%	21.29	0.998	2/1/2039	22.28	2039
3/1/2039	21.29	19.14	0%	21.29	1.013	3/1/2039	22.30	2039
4/1/2039	21.29	19.16	0%	21.29	1.013	4/1/2039	22.30	2039
5/1/2039	21.29	19.19	0%	21.29	1.013	5/1/2039	22.30	2039
6/1/2039	21.29	19.21	0%	21.29	1.013	6/1/2039	22.30	2039
7/1/2039	21.29	19.13	0%	21.29	1.013	7/1/2039	22.30	2039
8/1/2039	21.29	19.13	0%	21.29	1.013	8/1/2039	22.30	2039
9/1/2039	21.29	19.93	0%	21.29	1.013	9/1/2039	22.30	2039
10/1/2039	21.29	19.55	0%	21.29	1.013	10/1/2039	22.30	2039
11/1/2039	21.29	19.22	0%	21.29	1.013	11/1/2039	22.30	2039
12/1/2039	21.29	19.26	0%	21.29	1.013	12/1/2039	22.30	2039
1/1/2040	21.42	19.47	0%	21.42	1.013	1/1/2040	22.43	2040
2/1/2040	21.42	19.49	0%	21.42	1.013	2/1/2040	22.43	2040
3/1/2040	21.42	19.52	0%	21.42	1.028	3/1/2040	22.45	2040
4/1/2040	21.42	19.54	0%	21.42	1.028	4/1/2040	22.45	2040
5/1/2040	21.42	19.57	0%	21.42	1.028	5/1/2040	22.45	2040
6/1/2040	21.42	19.60	0%	21.42	1.028	6/1/2040	22.45	2040
7/1/2040	21.42	19.51	0%	21.42	1.028	7/1/2040	22.45	2040
8/1/2040	21.42	19.51	0%	21.42	1.028	8/1/2040	22.45	2040
9/1/2040	21.42	20.32	0%	21.42	1.028	9/1/2040	22.45	2040
10/1/2040	21.42	19.94	0%	21.42	1.028	10/1/2040	22.45	2040
11/1/2040	21.42	19.61	0%	21.42	1.028	11/1/2040	22.45	2040
12/1/2040	21.42	19.64	0%	21.42	1.028	12/1/2040	22.45	2040
1/1/2041	21.98	19.86	0%	21.98	1.028	1/1/2041	23.00	2041
2/1/2041	21.98	19.88	0%	21.98	1.028	2/1/2041	23.00	2041
3/1/2041	21.98	19.91	0%	21.98	1.043	3/1/2041	23.02	2041
4/1/2041	21.98	19.94	0%	21.98	1.043	4/1/2041	23.02	2041
5/1/2041	21.98	19.96	0%	21.98	1.043	5/1/2041	23.02	2041
6/1/2041	21.98	19.99	0%	21.98	1.043	6/1/2041	23.02	2041
7/1/2041	21.98	19.90	0%	21.98	1.043	7/1/2041	23.02	2041
8/1/2041	21.98	19.90	0%	21.98	1.043	8/1/2041	23.02	2041
9/1/2041	21.98	20.73	0%	21.98	1.043	9/1/2041	23.02	2041
10/1/2041	21.98	20.34	0%	21.98	1.043	10/1/2041	23.02	2041
11/1/2041	21.98	20.00	0%	21.98	1.043	11/1/2041	23.02	2041
12/1/2041	21.98	20.04	0%	21.98	1.043	12/1/2041	23.02	2041
1/1/2042	22.55	20.25	0%	22.55	1.043	1/1/2042	23.59	2042
2/1/2042	22.55	20.28	0%	22.55	1.043	2/1/2042	23.59	2042

3/1/2042	22.55	20.31	0%	22.55	1.059	3/1/2042	23.61	2042
4/1/2042	22.55	20.33	0%	22.55	1.059	4/1/2042	23.61	2042
5/1/2042	22.55	20.36	0%	22.55	1.059	5/1/2042	23.61	2042
6/1/2042	22.55	20.39	0%	22.55	1.059	6/1/2042	23.61	2042
7/1/2042	22.55	20.30	0%	22.55	1.059	7/1/2042	23.61	2042
8/1/2042	22.55	20.30	0%	22.55	1.059	8/1/2042	23.61	2042
9/1/2042	22.55	21.14	0%	22.55	1.059	9/1/2042	23.61	2042
10/1/2042	22.55	20.75	0%	22.55	1.059	10/1/2042	23.61	2042
11/1/2042	22.55	20.40	0%	22.55	1.059	11/1/2042	23.61	2042
12/1/2042	22.55	20.44	0%	22.55	1.059	12/1/2042	23.61	2042
1/1/2043	22.74	20.66	0%	22.74	1.059	1/1/2043	23.80	2043
2/1/2043	22.74	20.69	0%	22.74	1.059	2/1/2043	23.80	2043
3/1/2043	22.74	20.71	0%	22.74	1.075	3/1/2043	23.81	2043
4/1/2043	22.74	20.74	0%	22.74	1.075	4/1/2043	23.81	2043
5/1/2043	22.74	20.77	0%	22.74	1.075	5/1/2043	23.81	2043
6/1/2043	22.74	20.80	0%	22.74	1.075	6/1/2043	23.81	2043
7/1/2043	22.74	20.70	0%	22.74	1.075	7/1/2043	23.81	2043
8/1/2043	22.74	20.70	0%	22.74	1.075	8/1/2043	23.81	2043
9/1/2043	22.74	21.57	0%	22.74	1.075	9/1/2043	23.81	2043
10/1/2043	22.74	21.16	0%	22.74	1.075	10/1/2043	23.81	2043
11/1/2043	22.74	20.81	0%	22.74	1.075	11/1/2043	23.81	2043
12/1/2043	22.74	20.85	0%	22.74	1.075	12/1/2043	23.81	2043
1/1/2044	23.33	21.07	0%	23.33	1.075	1/1/2044	24.41	2044
2/1/2044	23.33	21.10	0%	23.33	1.075	2/1/2044	24.41	2044
3/1/2044	23.33	21.13	0%	23.33	1.091	3/1/2044	24.42	2044
4/1/2044	23.33	21.16	0%	23.33	1.091	4/1/2044	24.42	2044
5/1/2044	23.33	21.18	0%	23.33	1.091	5/1/2044	24.42	2044
6/1/2044	23.33	21.21	0%	23.33	1.091	6/1/2044	24.42	2044
7/1/2044	23.33	21.12	0%	23.33	1.091	7/1/2044	24.42	2044
8/1/2044	23.33	21.12	0%	23.33	1.091	8/1/2044	24.42	2044
9/1/2044	23.33	22.00	0%	23.33	1.091	9/1/2044	24.42	2044
10/1/2044	23.33	21.59	0%	23.33	1.091	10/1/2044	24.42	2044
11/1/2044	23.33	21.22	0%	23.33	1.091	11/1/2044	24.42	2044
12/1/2044	23.33	21.26	0%	23.33	1.091	12/1/2044	24.42	2044
1/1/2045	23.52	21.49	0%	23.52	1.091	1/1/2045	24.61	2045
2/1/2045	23.52	21.52	0%	23.52	1.091	2/1/2045	24.61	2045
3/1/2045	23.52	21.55	0%	23.52	1.107	3/1/2045	24.62	2045
4/1/2045	23.52	21.58	0%	23.52	1.107	4/1/2045	24.62	2045
5/1/2045	23.52	21.61	0%	23.52	1.107	5/1/2045	24.62	2045
6/1/2045	23.52	21.64	0%	23.52	1.107	6/1/2045	24.62	2045
7/1/2045	23.52	21.54	0%	23.52	1.107	7/1/2045	24.62	2045
8/1/2045	23.52	21.54	0%	23.52	1.107	8/1/2045	24.62	2045
9/1/2045	23.52	22.44	0%	23.52	1.107	9/1/2045	24.62	2045
10/1/2045	23.52	22.02	0%	23.52	1.107	10/1/2045	24.62	2045
11/1/2045	23.52	21.65	0%	23.52	1.107	11/1/2045	24.62	2045
12/1/2045	23.52	21.69	0%	23.52	1.107	12/1/2045	24.62	2045
1/1/2046	24.12	21.92	0%	24.12	1.107	1/1/2046	25.23	2046
2/1/2046	24.12	21.95	0%	24.12	1.107	2/1/2046	25.23	2046
3/1/2046	24.12	21.98	0%	24.12	1.124	3/1/2046	25.24	2046
4/1/2046	24.12	22.01	0%	24.12	1.124	4/1/2046	25.24	2046
5/1/2046	24.12	22.04	0%	24.12	1.124	5/1/2046	25.24	2046
6/1/2046	24.12	22.07	0%	24.12	1.124	6/1/2046	25.24	2046
7/1/2046	24.12	21.97	0%	24.12	1.124	7/1/2046	25.24	2046
8/1/2046	24.12	21.97	0%	24.12	1.124	8/1/2046	25.24	2046
9/1/2046	24.12	22.89	0%	24.12	1.124	9/1/2046	25.24	2046
10/1/2046	24.12	22.46	0%	24.12	1.124	10/1/2046	25.24	2046
11/1/2046	24.12	22.08	0%	24.12	1.124	11/1/2046	25.24	2046
12/1/2046	24.12	22.12	0%	24.12	1.124	12/1/2046	25.24	2046
1/1/2047	24.73	22.36	0%	24.73	1.124	1/1/2047	25.85	2047
2/1/2047	24.73	22.39	0%	24.73	1.124	2/1/2047	25.85	2047
3/1/2047	24.73	22.42	0%	24.73	1.141	3/1/2047	25.87	2047
4/1/2047	24.73	22.45	0%	24.73	1.141	4/1/2047	25.87	2047
5/1/2047	24.73	22.48	0%	24.73	1.141	5/1/2047	25.87	2047
6/1/2047	24.73	22.51	0%	24.73	1.141	6/1/2047	25.87	2047
7/1/2047	24.73	22.41	0%	24.73	1.141	7/1/2047	25.87	2047
8/1/2047	24.73	22.41	0%	24.73	1.141	8/1/2047	25.87	2047
9/1/2047	24.73	23.35	0%	24.73	1.141	9/1/2047	25.87	2047
10/1/2047	24.73	22.91	0%	24.73	1.141	10/1/2047	25.87	2047
11/1/2047	24.73	22.52	0%	24.73	1.141	11/1/2047	25.87	2047
12/1/2047	24.73	22.57	0%	24.73	1.141	12/1/2047	25.87	2047
1/1/2048	24.91	22.81	0%	24.91	1.141	1/1/2048	26.05	2048

2/1/2048	24.91	22.84	0%	24.91	1.141	2/1/2048	26.05	2048
3/1/2048	24.91	22.87	0%	24.91	1.158	3/1/2048	26.06	2048
4/1/2048	24.91	22.90	0%	24.91	1.158	4/1/2048	26.06	2048
5/1/2048	24.91	22.93	0%	24.91	1.158	5/1/2048	26.06	2048
6/1/2048	24.91	22.96	0%	24.91	1.158	6/1/2048	26.06	2048
7/1/2048	24.91	22.86	0%	24.91	1.158	7/1/2048	26.06	2048
8/1/2048	24.91	22.86	0%	24.91	1.158	8/1/2048	26.06	2048
9/1/2048	24.91	23.81	0%	24.91	1.158	9/1/2048	26.06	2048
10/1/2048	24.91	23.37	0%	24.91	1.158	10/1/2048	26.06	2048
11/1/2048	24.91	22.97	0%	24.91	1.158	11/1/2048	26.06	2048
12/1/2048	24.91	23.02	0%	24.91	1.158	12/1/2048	26.06	2048
1/1/2049	25.53	23.27	0%	25.53	1.158	1/1/2049	26.69	2049
2/1/2049	25.53	23.30	0%	25.53	1.158	2/1/2049	26.69	2049
3/1/2049	25.53	23.33	0%	25.53	1.175	3/1/2049	26.71	2049
4/1/2049	25.53	23.36	0%	25.53	1.175	4/1/2049	26.71	2049
5/1/2049	25.53	23.39	0%	25.53	1.175	5/1/2049	26.71	2049
6/1/2049	25.53	23.42	0%	25.53	1.175	6/1/2049	26.71	2049
7/1/2049	25.53	23.32	0%	25.53	1.175	7/1/2049	26.71	2049
8/1/2049	25.53	23.32	0%	25.53	1.175	8/1/2049	26.71	2049
9/1/2049	25.53	24.29	0%	25.53	1.175	9/1/2049	26.71	2049
10/1/2049	25.53	23.83	0%	25.53	1.175	10/1/2049	26.71	2049
11/1/2049	25.53	23.43	0%	25.53	1.175	11/1/2049	26.71	2049
12/1/2049	25.53	23.48	0%	25.53	1.175	12/1/2049	26.71	2049
1/1/2050	25.53	23.73	0%	25.53	1.175	1/1/2050	26.71	2050
2/1/2050	25.53	23.76	0%	25.53	1.175	2/1/2050	26.71	2050
3/1/2050	25.53	23.79	0%	25.53	1.193	3/1/2050	26.73	2050
4/1/2050	25.53	23.83	0%	25.53	1.193	4/1/2050	26.73	2050
5/1/2050	25.53	23.86	0%	25.53	1.193	5/1/2050	26.73	2050
6/1/2050	25.53	23.89	0%	25.53	1.193	6/1/2050	26.73	2050
7/1/2050	25.53	23.78	0%	25.53	1.193	7/1/2050	26.73	2050
8/1/2050	25.53	23.78	0%	25.53	1.193	8/1/2050	26.73	2050
9/1/2050	25.53	24.77	0%	25.53	1.193	9/1/2050	26.73	2050
10/1/2050	25.53	24.31	0%	25.53	1.193	10/1/2050	26.73	2050
11/1/2050	25.53	23.90	0%	25.53	1.193	11/1/2050	26.73	2050
12/1/2050	25.53	23.95	0%	25.53	1.193	12/1/2050	26.73	2050

Bartow / Bayboro

PETROLEUM PRODUCT PRICE FORECAST DATA

Date	Petroleum Product Price Forecast - Gulf Coast	TCM	Blend TCM/ Fundamental (%)	Blend TCM/ Fundamental ($)	Bartow / Bayboro Transport ($/MMBtu)
1/1/2019	14.62	12.93	100%	12.93	0.461
2/1/2019	14.62	13.87	100%	13.87	0.461
3/1/2019	14.62	13.78	100%	13.78	0.461
4/1/2019	14.62	14.33	100%	14.33	0.461
5/1/2019	14.62	14.29	100%	14.29	0.461
6/1/2019	14.62	13.17	100%	13.17	0.461
7/1/2019	14.62	13.86	100%	13.86	0.461
8/1/2019	14.62	13.04	100%	13.04	0.461
9/1/2019	14.62	13.58	100%	13.58	0.461
10/1/2019	14.62	13.31	100%	13.31	0.461
11/1/2019	14.62	13.08	100%	13.08	0.461
12/1/2019	14.62	13.09	100%	13.09	0.461
1/1/2020	13.66	13.80	100%	13.80	0.468
2/1/2020	13.66	14.09	100%	14.09	0.468
3/1/2020	13.66	14.60	100%	14.60	0.468
4/1/2020	13.66	14.42	100%	14.42	0.468
5/1/2020	13.66	13.11	100%	13.11	0.468
6/1/2020	13.66	13.60	100%	13.60	0.468
7/1/2020	13.66	12.98	100%	12.98	0.468
8/1/2020	13.66	13.82	100%	13.82	0.468
9/1/2020	13.66	13.64	100%	13.64	0.468
10/1/2020	13.66	13.38	100%	13.38	0.468
11/1/2020	13.66	13.16	100%	13.16	0.468
12/1/2020	13.66	13.18	100%	13.18	0.468
1/1/2021	13.38	13.24	100%	13.24	0.475
2/1/2021	13.38	13.26	100%	13.26	0.475
3/1/2021	13.38	13.28	100%	13.28	0.475
4/1/2021	13.38	13.30	100%	13.30	0.475
5/1/2021	13.38	13.31	100%	13.31	0.475
6/1/2021	13.38	13.33	100%	13.33	0.475
7/1/2021	13.38	13.33	100%	13.33	0.475
8/1/2021	13.38	13.33	100%	13.33	0.475
9/1/2021	13.38	13.89	100%	13.89	0.475
10/1/2021	13.38	13.63	100%	13.63	0.475
11/1/2021	13.38	13.40	100%	13.40	0.475
12/1/2021	13.38	13.42	100%	13.42	0.475
1/1/2022	13.44	13.57	96%	13.57	0.482
2/1/2022	13.44	13.59	92%	13.58	0.482
3/1/2022	13.44	13.61	88%	13.59	0.482
4/1/2022	13.44	13.62	84%	13.60	0.482
5/1/2022	13.44	13.64	80%	13.60	0.482
6/1/2022	13.44	13.66	76%	13.61	0.482
7/1/2022	13.44	13.66	72%	13.60	0.482
8/1/2022	13.44	13.66	68%	13.59	0.482
9/1/2022	13.44	14.23	64%	13.95	0.482
10/1/2022	13.44	13.96	60%	13.76	0.482
11/1/2022	13.44	13.73	56%	13.60	0.482
12/1/2022	13.44	13.75	52%	13.60	0.482
1/1/2023	13.75	13.90	48%	13.82	0.489
2/1/2023	13.75	13.92	44%	13.83	0.489
3/1/2023	13.75	13.94	40%	13.83	0.489
4/1/2023	13.75	13.96	36%	13.82	0.489
5/1/2023	13.75	13.98	32%	13.82	0.489
6/1/2023	13.75	13.99	28%	13.82	0.489
7/1/2023	13.75	13.93	24%	13.79	0.489
8/1/2023	13.75	13.93	20%	13.79	0.489
9/1/2023	13.75	14.51	16%	13.87	0.489
10/1/2023	13.75	14.24	12%	13.81	0.489
11/1/2023	13.75	14.00	8%	13.77	0.489
12/1/2023	13.75	14.03	4%	13.76	0.489
1/1/2024	14.08	14.18	0%	14.08	0.496
2/1/2024	14.08	14.20	0%	14.08	0.496
3/1/2024	14.08	14.22	0%	14.08	0.496
4/1/2024	14.08	14.24	0%	14.08	0.496

PROSYM INPUT

Date	nomianl$/MMBtu
1/1/2019	13.39
2/1/2019	14.33
3/1/2019	14.24
4/1/2019	14.79
5/1/2019	14.75
6/1/2019	13.63
7/1/2019	14.32
8/1/2019	13.50
9/1/2019	14.04
10/1/2019	13.77
11/1/2019	13.54
12/1/2019	13.55
1/1/2020	14.27
2/1/2020	14.56
3/1/2020	15.06
4/1/2020	14.89
5/1/2020	13.57
6/1/2020	14.07
7/1/2020	13.45
8/1/2020	14.29
9/1/2020	14.10
10/1/2020	13.85
11/1/2020	13.62
12/1/2020	13.65
1/1/2021	13.72
2/1/2021	13.74
3/1/2021	13.75
4/1/2021	13.77
5/1/2021	13.79
6/1/2021	13.81
7/1/2021	13.81
8/1/2021	13.81
9/1/2021	14.36
10/1/2021	14.10
11/1/2021	13.87
12/1/2021	13.90
1/1/2022	14.05
2/1/2022	14.06
3/1/2022	14.07
4/1/2022	14.08
5/1/2022	14.08
6/1/2022	14.09
7/1/2022	14.08
8/1/2022	14.07
9/1/2022	14.43
10/1/2022	14.24
11/1/2022	14.09
12/1/2022	14.09
1/1/2023	14.31
2/1/2023	14.31
3/1/2023	14.31
4/1/2023	14.31
5/1/2023	14.31
6/1/2023	14.31
7/1/2023	14.28
8/1/2023	14.28
9/1/2023	14.36
10/1/2023	14.30
11/1/2023	14.26
12/1/2023	14.25
1/1/2024	14.58
2/1/2024	14.58
3/1/2024	14.58
4/1/2024	14.58

ANNUAL AVERAGE

	Bartow / Bayboro
2019	13.99
2020	14.12
2021	13.87
2022	14.12
2023	14.30
2024	14.58
2025	14.94
2026	15.51
2027	16.16
2028	16.92
2029	17.61
2030	18.04
2031	18.44
2032	18.86
2033	19.29
2034	19.73
2035	20.18
2036	20.64
2037	21.12
2038	21.52
2039	21.91
2040	22.05
2041	22.62
2042	23.20
2043	23.40
2044	24.00
2045	24.19
2046	24.81
2047	25.43
2048	25.61
2049	26.25
2050	26.26

5/1/2024	14.08	14.26	0%	14.08	0.496	5/1/2024	14.58	2024
6/1/2024	14.08	14.27	0%	14.08	0.496	6/1/2024	14.58	2024
7/1/2024	14.08	14.21	0%	14.08	0.496	7/1/2024	14.58	2024
8/1/2024	14.08	14.21	0%	14.08	0.496	8/1/2024	14.58	2024
9/1/2024	14.08	14.80	0%	14.08	0.496	9/1/2024	14.58	2024
10/1/2024	14.08	14.53	0%	14.08	0.496	10/1/2024	14.58	2024
11/1/2024	14.08	14.28	0%	14.08	0.496	11/1/2024	14.58	2024
12/1/2024	14.08	14.31	0%	14.08	0.496	12/1/2024	14.58	2024
1/1/2025	14.43	14.47	0%	14.43	0.504	1/1/2025	14.94	2025
2/1/2025	14.43	14.48	0%	14.43	0.504	2/1/2025	14.94	2025
3/1/2025	14.43	14.50	0%	14.43	0.504	3/1/2025	14.94	2025
4/1/2025	14.43	14.52	0%	14.43	0.504	4/1/2025	14.94	2025
5/1/2025	14.43	14.54	0%	14.43	0.504	5/1/2025	14.94	2025
6/1/2025	14.43	14.56	0%	14.43	0.504	6/1/2025	14.94	2025
7/1/2025	14.43	14.50	0%	14.43	0.504	7/1/2025	14.94	2025
8/1/2025	14.43	14.50	0%	14.43	0.504	8/1/2025	14.94	2025
9/1/2025	14.43	15.10	0%	14.43	0.504	9/1/2025	14.94	2025
10/1/2025	14.43	14.82	0%	14.43	0.504	10/1/2025	14.94	2025
11/1/2025	14.43	14.57	0%	14.43	0.504	11/1/2025	14.94	2025
12/1/2025	14.43	14.60	0%	14.43	0.504	12/1/2025	14.94	2025
1/1/2026	15.00	14.75	0%	15.00	0.511	1/1/2026	15.51	2026
2/1/2026	15.00	14.77	0%	15.00	0.511	2/1/2026	15.51	2026
3/1/2026	15.00	14.79	0%	15.00	0.511	3/1/2026	15.51	2026
4/1/2026	15.00	14.81	0%	15.00	0.511	4/1/2026	15.51	2026
5/1/2026	15.00	14.83	0%	15.00	0.511	5/1/2026	15.51	2026
6/1/2026	15.00	14.85	0%	15.00	0.511	6/1/2026	15.51	2026
7/1/2026	15.00	14.79	0%	15.00	0.511	7/1/2026	15.51	2026
8/1/2026	15.00	14.79	0%	15.00	0.511	8/1/2026	15.51	2026
9/1/2026	15.00	15.40	0%	15.00	0.511	9/1/2026	15.51	2026
10/1/2026	15.00	15.11	0%	15.00	0.511	10/1/2026	15.51	2026
11/1/2026	15.00	14.86	0%	15.00	0.511	11/1/2026	15.51	2026
12/1/2026	15.00	14.89	0%	15.00	0.511	12/1/2026	15.51	2026
1/1/2027	15.64	15.05	0%	15.64	0.519	1/1/2027	16.16	2027
2/1/2027	15.64	15.07	0%	15.64	0.519	2/1/2027	16.16	2027
3/1/2027	15.64	15.09	0%	15.64	0.519	3/1/2027	16.16	2027
4/1/2027	15.64	15.11	0%	15.64	0.519	4/1/2027	16.16	2027
5/1/2027	15.64	15.13	0%	15.64	0.519	5/1/2027	16.16	2027
6/1/2027	15.64	15.15	0%	15.64	0.519	6/1/2027	16.16	2027
7/1/2027	15.64	15.08	0%	15.64	0.519	7/1/2027	16.16	2027
8/1/2027	15.64	15.08	0%	15.64	0.519	8/1/2027	16.16	2027
9/1/2027	15.64	15.71	0%	15.64	0.519	9/1/2027	16.16	2027
10/1/2027	15.64	15.42	0%	15.64	0.519	10/1/2027	16.16	2027
11/1/2027	15.64	15.16	0%	15.64	0.519	11/1/2027	16.16	2027
12/1/2027	15.64	15.19	0%	15.64	0.519	12/1/2027	16.16	2027
1/1/2028	16.39	15.35	0%	16.39	0.527	1/1/2028	16.92	2028
2/1/2028	16.39	15.37	0%	16.39	0.527	2/1/2028	16.92	2028
3/1/2028	16.39	15.39	0%	16.39	0.527	3/1/2028	16.92	2028
4/1/2028	16.39	15.41	0%	16.39	0.527	4/1/2028	16.92	2028
5/1/2028	16.39	15.43	0%	16.39	0.527	5/1/2028	16.92	2028
6/1/2028	16.39	15.45	0%	16.39	0.527	6/1/2028	16.92	2028
7/1/2028	16.39	15.38	0%	16.39	0.527	7/1/2028	16.92	2028
8/1/2028	16.39	15.38	0%	16.39	0.527	8/1/2028	16.92	2028
9/1/2028	16.39	16.03	0%	16.39	0.527	9/1/2028	16.92	2028
10/1/2028	16.39	15.73	0%	16.39	0.527	10/1/2028	16.92	2028
11/1/2028	16.39	15.46	0%	16.39	0.527	11/1/2028	16.92	2028
12/1/2028	16.39	15.49	0%	16.39	0.527	12/1/2028	16.92	2028
1/1/2029	17.07	15.66	0%	17.07	0.535	1/1/2029	17.61	2029
2/1/2029	17.07	15.68	0%	17.07	0.535	2/1/2029	17.61	2029
3/1/2029	17.07	15.70	0%	17.07	0.535	3/1/2029	17.61	2029
4/1/2029	17.07	15.72	0%	17.07	0.535	4/1/2029	17.61	2029
5/1/2029	17.07	15.74	0%	17.07	0.535	5/1/2029	17.61	2029
6/1/2029	17.07	15.76	0%	17.07	0.535	6/1/2029	17.61	2029
7/1/2029	17.07	15.69	0%	17.07	0.535	7/1/2029	17.61	2029
8/1/2029	17.07	15.69	0%	17.07	0.535	8/1/2029	17.61	2029
9/1/2029	17.07	16.35	0%	17.07	0.535	9/1/2029	17.61	2029
10/1/2029	17.07	16.04	0%	17.07	0.535	10/1/2029	17.61	2029
11/1/2029	17.07	15.77	0%	17.07	0.535	11/1/2029	17.61	2029
12/1/2029	17.07	15.80	0%	17.07	0.535	12/1/2029	17.61	2029
1/1/2030	17.50	15.97	0%	17.50	0.543	1/1/2030	18.04	2030
2/1/2030	17.50	15.99	0%	17.50	0.543	2/1/2030	18.04	2030
3/1/2030	17.50	16.01	0%	17.50	0.543	3/1/2030	18.04	2030

4/1/2030	17.50	16.03	0%	17.50	0.543	4/1/2030	18.04	2030
5/1/2030	17.50	16.05	0%	17.50	0.543	5/1/2030	18.04	2030
6/1/2030	17.50	16.08	0%	17.50	0.543	6/1/2030	18.04	2030
7/1/2030	17.50	16.00	0%	17.50	0.543	7/1/2030	18.04	2030
8/1/2030	17.50	16.00	0%	17.50	0.543	8/1/2030	18.04	2030
9/1/2030	17.50	16.67	0%	17.50	0.543	9/1/2030	18.04	2030
10/1/2030	17.50	16.36	0%	17.50	0.543	10/1/2030	18.04	2030
11/1/2030	17.50	16.09	0%	17.50	0.543	11/1/2030	18.04	2030
12/1/2030	17.50	16.12	0%	17.50	0.543	12/1/2030	18.04	2030
1/1/2031	17.89	16.29	0%	17.89	0.551	1/1/2031	18.44	2031
2/1/2031	17.89	16.31	0%	17.89	0.551	2/1/2031	18.44	2031
3/1/2031	17.89	16.33	0%	17.89	0.551	3/1/2031	18.44	2031
4/1/2031	17.89	16.35	0%	17.89	0.551	4/1/2031	18.44	2031
5/1/2031	17.89	16.38	0%	17.89	0.551	5/1/2031	18.44	2031
6/1/2031	17.89	16.40	0%	17.89	0.551	6/1/2031	18.44	2031
7/1/2031	17.89	16.32	0%	17.89	0.551	7/1/2031	18.44	2031
8/1/2031	17.89	16.32	0%	17.89	0.551	8/1/2031	18.44	2031
9/1/2031	17.89	17.01	0%	17.89	0.551	9/1/2031	18.44	2031
10/1/2031	17.89	16.69	0%	17.89	0.551	10/1/2031	18.44	2031
11/1/2031	17.89	16.41	0%	17.89	0.551	11/1/2031	18.44	2031
12/1/2031	17.89	16.44	0%	17.89	0.551	12/1/2031	18.44	2031
1/1/2032	18.30	16.62	0%	18.30	0.559	1/1/2032	18.86	2032
2/1/2032	18.30	16.64	0%	18.30	0.559	2/1/2032	18.86	2032
3/1/2032	18.30	16.66	0%	18.30	0.559	3/1/2032	18.86	2032
4/1/2032	18.30	16.68	0%	18.30	0.559	4/1/2032	18.86	2032
5/1/2032	18.30	16.70	0%	18.30	0.559	5/1/2032	18.86	2032
6/1/2032	18.30	16.72	0%	18.30	0.559	6/1/2032	18.86	2032
7/1/2032	18.30	16.65	0%	18.30	0.559	7/1/2032	18.86	2032
8/1/2032	18.30	16.65	0%	18.30	0.559	8/1/2032	18.86	2032
9/1/2032	18.30	17.35	0%	18.30	0.559	9/1/2032	18.86	2032
10/1/2032	18.30	17.02	0%	18.30	0.559	10/1/2032	18.86	2032
11/1/2032	18.30	16.74	0%	18.30	0.559	11/1/2032	18.86	2032
12/1/2032	18.30	16.77	0%	18.30	0.559	12/1/2032	18.86	2032
1/1/2033	18.73	16.95	0%	18.73	0.568	1/1/2033	19.29	2033
2/1/2033	18.73	16.97	0%	18.73	0.568	2/1/2033	19.29	2033
3/1/2033	18.73	16.99	0%	18.73	0.568	3/1/2033	19.29	2033
4/1/2033	18.73	17.01	0%	18.73	0.568	4/1/2033	19.29	2033
5/1/2033	18.73	17.04	0%	18.73	0.568	5/1/2033	19.29	2033
6/1/2033	18.73	17.06	0%	18.73	0.568	6/1/2033	19.29	2033
7/1/2033	18.73	16.98	0%	18.73	0.568	7/1/2033	19.29	2033
8/1/2033	18.73	16.98	0%	18.73	0.568	8/1/2033	19.29	2033
9/1/2033	18.73	17.69	0%	18.73	0.568	9/1/2033	19.29	2033
10/1/2033	18.73	17.36	0%	18.73	0.568	10/1/2033	19.29	2033
11/1/2033	18.73	17.07	0%	18.73	0.568	11/1/2033	19.29	2033
12/1/2033	18.73	17.10	0%	18.73	0.568	12/1/2033	19.29	2033
1/1/2034	19.16	17.29	0%	19.16	0.576	1/1/2034	19.73	2034
2/1/2034	19.16	17.31	0%	19.16	0.576	2/1/2034	19.73	2034
3/1/2034	19.16	17.33	0%	19.16	0.576	3/1/2034	19.73	2034
4/1/2034	19.16	17.36	0%	19.16	0.576	4/1/2034	19.73	2034
5/1/2034	19.16	17.38	0%	19.16	0.576	5/1/2034	19.73	2034
6/1/2034	19.16	17.40	0%	19.16	0.576	6/1/2034	19.73	2034
7/1/2034	19.16	17.32	0%	19.16	0.576	7/1/2034	19.73	2034
8/1/2034	19.16	17.32	0%	19.16	0.576	8/1/2034	19.73	2034
9/1/2034	19.16	18.05	0%	19.16	0.576	9/1/2034	19.73	2034
10/1/2034	19.16	17.71	0%	19.16	0.576	10/1/2034	19.73	2034
11/1/2034	19.16	17.41	0%	19.16	0.576	11/1/2034	19.73	2034
12/1/2034	19.16	17.44	0%	19.16	0.576	12/1/2034	19.73	2034
1/1/2035	19.60	17.63	0%	19.60	0.585	1/1/2035	20.18	2035
2/1/2035	19.60	17.66	0%	19.60	0.585	2/1/2035	20.18	2035
3/1/2035	19.60	17.68	0%	19.60	0.585	3/1/2035	20.18	2035
4/1/2035	19.60	17.70	0%	19.60	0.585	4/1/2035	20.18	2035
5/1/2035	19.60	17.73	0%	19.60	0.585	5/1/2035	20.18	2035
6/1/2035	19.60	17.75	0%	19.60	0.585	6/1/2035	20.18	2035
7/1/2035	19.60	17.67	0%	19.60	0.585	7/1/2035	20.18	2035
8/1/2035	19.60	17.67	0%	19.60	0.585	8/1/2035	20.18	2035
9/1/2035	19.60	18.41	0%	19.60	0.585	9/1/2035	20.18	2035
10/1/2035	19.60	18.06	0%	19.60	0.585	10/1/2035	20.18	2035
11/1/2035	19.60	17.76	0%	19.60	0.585	11/1/2035	20.18	2035
12/1/2035	19.60	17.79	0%	19.60	0.585	12/1/2035	20.18	2035
1/1/2036	20.05	17.99	0%	20.05	0.585	1/1/2036	20.64	2036
2/1/2036	20.05	18.01	0%	20.05	0.585	2/1/2036	20.64	2036

3/1/2036	20.05	18.03	0%	20.05	0.594	3/1/2036	20.64	2036
4/1/2036	20.05	18.06	0%	20.05	0.594	4/1/2036	20.64	2036
5/1/2036	20.05	18.08	0%	20.05	0.594	5/1/2036	20.64	2036
6/1/2036	20.05	18.10	0%	20.05	0.594	6/1/2036	20.64	2036
7/1/2036	20.05	18.02	0%	20.05	0.594	7/1/2036	20.64	2036
8/1/2036	20.05	18.02	0%	20.05	0.594	8/1/2036	20.64	2036
9/1/2036	20.05	18.78	0%	20.05	0.594	9/1/2036	20.64	2036
10/1/2036	20.05	18.42	0%	20.05	0.594	10/1/2036	20.64	2036
11/1/2036	20.05	18.12	0%	20.05	0.594	11/1/2036	20.64	2036
12/1/2036	20.05	18.15	0%	20.05	0.594	12/1/2036	20.64	2036
1/1/2037	20.52	18.35	0%	20.52	0.594	1/1/2037	21.11	2037
2/1/2037	20.52	18.37	0%	20.52	0.594	2/1/2037	21.11	2037
3/1/2037	20.52	18.39	0%	20.52	0.603	3/1/2037	21.12	2037
4/1/2037	20.52	18.42	0%	20.52	0.603	4/1/2037	21.12	2037
5/1/2037	20.52	18.44	0%	20.52	0.603	5/1/2037	21.12	2037
6/1/2037	20.52	18.47	0%	20.52	0.603	6/1/2037	21.12	2037
7/1/2037	20.52	18.38	0%	20.52	0.603	7/1/2037	21.12	2037
8/1/2037	20.52	18.38	0%	20.52	0.603	8/1/2037	21.12	2037
9/1/2037	20.52	19.15	0%	20.52	0.603	9/1/2037	21.12	2037
10/1/2037	20.52	18.79	0%	20.52	0.603	10/1/2037	21.12	2037
11/1/2037	20.52	18.48	0%	20.52	0.603	11/1/2037	21.12	2037
12/1/2037	20.52	18.51	0%	20.52	0.603	12/1/2037	21.12	2037
1/1/2038	20.91	18.71	0%	20.91	0.603	1/1/2038	21.51	2038
2/1/2038	20.91	18.74	0%	20.91	0.603	2/1/2038	21.51	2038
3/1/2038	20.91	18.76	0%	20.91	0.612	3/1/2038	21.52	2038
4/1/2038	20.91	18.79	0%	20.91	0.612	4/1/2038	21.52	2038
5/1/2038	20.91	18.81	0%	20.91	0.612	5/1/2038	21.52	2038
6/1/2038	20.91	18.83	0%	20.91	0.612	6/1/2038	21.52	2038
7/1/2038	20.91	18.75	0%	20.91	0.612	7/1/2038	21.52	2038
8/1/2038	20.91	18.75	0%	20.91	0.612	8/1/2038	21.52	2038
9/1/2038	20.91	19.53	0%	20.91	0.612	9/1/2038	21.52	2038
10/1/2038	20.91	19.17	0%	20.91	0.612	10/1/2038	21.52	2038
11/1/2038	20.91	18.85	0%	20.91	0.612	11/1/2038	21.52	2038
12/1/2038	20.91	18.88	0%	20.91	0.612	12/1/2038	21.52	2038
1/1/2039	21.29	19.09	0%	21.29	0.612	1/1/2039	21.90	2039
2/1/2039	21.29	19.11	0%	21.29	0.612	2/1/2039	21.90	2039
3/1/2039	21.29	19.14	0%	21.29	0.621	3/1/2039	21.91	2039
4/1/2039	21.29	19.16	0%	21.29	0.621	4/1/2039	21.91	2039
5/1/2039	21.29	19.19	0%	21.29	0.621	5/1/2039	21.91	2039
6/1/2039	21.29	19.21	0%	21.29	0.621	6/1/2039	21.91	2039
7/1/2039	21.29	19.13	0%	21.29	0.621	7/1/2039	21.91	2039
8/1/2039	21.29	19.13	0%	21.29	0.621	8/1/2039	21.91	2039
9/1/2039	21.29	19.93	0%	21.29	0.621	9/1/2039	21.91	2039
10/1/2039	21.29	19.55	0%	21.29	0.621	10/1/2039	21.91	2039
11/1/2039	21.29	19.22	0%	21.29	0.621	11/1/2039	21.91	2039
12/1/2039	21.29	19.26	0%	21.29	0.621	12/1/2039	21.91	2039
1/1/2040	21.42	19.47	0%	21.42	0.621	1/1/2040	22.04	2040
2/1/2040	21.42	19.49	0%	21.42	0.621	2/1/2040	22.04	2040
3/1/2040	21.42	19.52	0%	21.42	0.630	3/1/2040	22.05	2040
4/1/2040	21.42	19.54	0%	21.42	0.630	4/1/2040	22.05	2040
5/1/2040	21.42	19.57	0%	21.42	0.630	5/1/2040	22.05	2040
6/1/2040	21.42	19.60	0%	21.42	0.630	6/1/2040	22.05	2040
7/1/2040	21.42	19.51	0%	21.42	0.630	7/1/2040	22.05	2040
8/1/2040	21.42	19.51	0%	21.42	0.630	8/1/2040	22.05	2040
9/1/2040	21.42	20.32	0%	21.42	0.630	9/1/2040	22.05	2040
10/1/2040	21.42	19.94	0%	21.42	0.630	10/1/2040	22.05	2040
11/1/2040	21.42	19.61	0%	21.42	0.630	11/1/2040	22.05	2040
12/1/2040	21.42	19.64	0%	21.42	0.630	12/1/2040	22.05	2040
1/1/2041	21.98	19.86	0%	21.98	0.630	1/1/2041	22.61	2041
2/1/2041	21.98	19.88	0%	21.98	0.630	2/1/2041	22.61	2041
3/1/2041	21.98	19.91	0%	21.98	0.640	3/1/2041	22.62	2041
4/1/2041	21.98	19.94	0%	21.98	0.640	4/1/2041	22.62	2041
5/1/2041	21.98	19.96	0%	21.98	0.640	5/1/2041	22.62	2041
6/1/2041	21.98	19.99	0%	21.98	0.640	6/1/2041	22.62	2041
7/1/2041	21.98	19.90	0%	21.98	0.640	7/1/2041	22.62	2041
8/1/2041	21.98	19.90	0%	21.98	0.640	8/1/2041	22.62	2041
9/1/2041	21.98	20.73	0%	21.98	0.640	9/1/2041	22.62	2041
10/1/2041	21.98	20.34	0%	21.98	0.640	10/1/2041	22.62	2041
11/1/2041	21.98	20.00	0%	21.98	0.640	11/1/2041	22.62	2041
12/1/2041	21.98	20.04	0%	21.98	0.640	12/1/2041	22.62	2041
1/1/2042	22.55	20.25	0%	22.55	0.640	1/1/2042	23.19	2042

2/1/2042	22.55	20.28	0%	22.55	0.640	2/1/2042	23.19	2042
3/1/2042	22.55	20.31	0%	22.55	0.649	3/1/2042	23.20	2042
4/1/2042	22.55	20.33	0%	22.55	0.649	4/1/2042	23.20	2042
5/1/2042	22.55	20.36	0%	22.55	0.649	5/1/2042	23.20	2042
6/1/2042	22.55	20.39	0%	22.55	0.649	6/1/2042	23.20	2042
7/1/2042	22.55	20.30	0%	22.55	0.649	7/1/2042	23.20	2042
8/1/2042	22.55	20.30	0%	22.55	0.649	8/1/2042	23.20	2042
9/1/2042	22.55	21.14	0%	22.55	0.649	9/1/2042	23.20	2042
10/1/2042	22.55	20.75	0%	22.55	0.649	10/1/2042	23.20	2042
11/1/2042	22.55	20.40	0%	22.55	0.649	11/1/2042	23.20	2042
12/1/2042	22.55	20.44	0%	22.55	0.649	12/1/2042	23.20	2042
1/1/2043	22.74	20.66	0%	22.74	0.649	1/1/2043	23.39	2043
2/1/2043	22.74	20.69	0%	22.74	0.649	2/1/2043	23.39	2043
3/1/2043	22.74	20.71	0%	22.74	0.659	3/1/2043	23.40	2043
4/1/2043	22.74	20.74	0%	22.74	0.659	4/1/2043	23.40	2043
5/1/2043	22.74	20.77	0%	22.74	0.659	5/1/2043	23.40	2043
6/1/2043	22.74	20.80	0%	22.74	0.659	6/1/2043	23.40	2043
7/1/2043	22.74	20.70	0%	22.74	0.659	7/1/2043	23.40	2043
8/1/2043	22.74	20.70	0%	22.74	0.659	8/1/2043	23.40	2043
9/1/2043	22.74	21.57	0%	22.74	0.659	9/1/2043	23.40	2043
10/1/2043	22.74	21.16	0%	22.74	0.659	10/1/2043	23.40	2043
11/1/2043	22.74	20.81	0%	22.74	0.659	11/1/2043	23.40	2043
12/1/2043	22.74	20.85	0%	22.74	0.659	12/1/2043	23.40	2043
1/1/2044	23.33	21.07	0%	23.33	0.659	1/1/2044	23.99	2044
2/1/2044	23.33	21.10	0%	23.33	0.659	2/1/2044	23.99	2044
3/1/2044	23.33	21.13	0%	23.33	0.669	3/1/2044	24.00	2044
4/1/2044	23.33	21.16	0%	23.33	0.669	4/1/2044	24.00	2044
5/1/2044	23.33	21.18	0%	23.33	0.669	5/1/2044	24.00	2044
6/1/2044	23.33	21.21	0%	23.33	0.669	6/1/2044	24.00	2044
7/1/2044	23.33	21.12	0%	23.33	0.669	7/1/2044	24.00	2044
8/1/2044	23.33	21.12	0%	23.33	0.669	8/1/2044	24.00	2044
9/1/2044	23.33	22.00	0%	23.33	0.669	9/1/2044	24.00	2044
10/1/2044	23.33	21.59	0%	23.33	0.669	10/1/2044	24.00	2044
11/1/2044	23.33	21.22	0%	23.33	0.669	11/1/2044	24.00	2044
12/1/2044	23.33	21.26	0%	23.33	0.669	12/1/2044	24.00	2044
1/1/2045	23.52	21.49	0%	23.52	0.669	1/1/2045	24.19	2045
2/1/2045	23.52	21.52	0%	23.52	0.669	2/1/2045	24.19	2045
3/1/2045	23.52	21.55	0%	23.52	0.679	3/1/2045	24.20	2045
4/1/2045	23.52	21.58	0%	23.52	0.679	4/1/2045	24.20	2045
5/1/2045	23.52	21.61	0%	23.52	0.679	5/1/2045	24.20	2045
6/1/2045	23.52	21.64	0%	23.52	0.679	6/1/2045	24.20	2045
7/1/2045	23.52	21.54	0%	23.52	0.679	7/1/2045	24.20	2045
8/1/2045	23.52	21.54	0%	23.52	0.679	8/1/2045	24.20	2045
9/1/2045	23.52	22.44	0%	23.52	0.679	9/1/2045	24.20	2045
10/1/2045	23.52	22.02	0%	23.52	0.679	10/1/2045	24.20	2045
11/1/2045	23.52	21.65	0%	23.52	0.679	11/1/2045	24.20	2045
12/1/2045	23.52	21.69	0%	23.52	0.679	12/1/2045	24.20	2045
1/1/2046	24.12	21.92	0%	24.12	0.679	1/1/2046	24.80	2046
2/1/2046	24.12	21.95	0%	24.12	0.679	2/1/2046	24.80	2046
3/1/2046	24.12	21.98	0%	24.12	0.689	3/1/2046	24.81	2046
4/1/2046	24.12	22.01	0%	24.12	0.689	4/1/2046	24.81	2046
5/1/2046	24.12	22.04	0%	24.12	0.689	5/1/2046	24.81	2046
6/1/2046	24.12	22.07	0%	24.12	0.689	6/1/2046	24.81	2046
7/1/2046	24.12	21.97	0%	24.12	0.689	7/1/2046	24.81	2046
8/1/2046	24.12	21.97	0%	24.12	0.689	8/1/2046	24.81	2046
9/1/2046	24.12	22.89	0%	24.12	0.689	9/1/2046	24.81	2046
10/1/2046	24.12	22.46	0%	24.12	0.689	10/1/2046	24.81	2046
11/1/2046	24.12	22.08	0%	24.12	0.689	11/1/2046	24.81	2046
12/1/2046	24.12	22.12	0%	24.12	0.689	12/1/2046	24.81	2046
1/1/2047	24.73	22.36	0%	24.73	0.689	1/1/2047	25.42	2047
2/1/2047	24.73	22.39	0%	24.73	0.689	2/1/2047	25.42	2047
3/1/2047	24.73	22.42	0%	24.73	0.699	3/1/2047	25.43	2047
4/1/2047	24.73	22.45	0%	24.73	0.699	4/1/2047	25.43	2047
5/1/2047	24.73	22.48	0%	24.73	0.699	5/1/2047	25.43	2047
6/1/2047	24.73	22.51	0%	24.73	0.699	6/1/2047	25.43	2047
7/1/2047	24.73	22.41	0%	24.73	0.699	7/1/2047	25.43	2047
8/1/2047	24.73	22.41	0%	24.73	0.699	8/1/2047	25.43	2047
9/1/2047	24.73	23.35	0%	24.73	0.699	9/1/2047	25.43	2047
10/1/2047	24.73	22.91	0%	24.73	0.699	10/1/2047	25.43	2047
11/1/2047	24.73	22.52	0%	24.73	0.699	11/1/2047	25.43	2047
12/1/2047	24.73	22.57	0%	24.73	0.699	12/1/2047	25.43	2047

1/1/2048	24.91	22.81	0%	24.91	0.699	1/1/2048	25.61	2048
2/1/2048	24.91	22.84	0%	24.91	0.699	2/1/2048	25.61	2048
3/1/2048	24.91	22.87	0%	24.91	0.710	3/1/2048	25.62	2048
4/1/2048	24.91	22.90	0%	24.91	0.710	4/1/2048	25.62	2048
5/1/2048	24.91	22.93	0%	24.91	0.710	5/1/2048	25.62	2048
6/1/2048	24.91	22.96	0%	24.91	0.710	6/1/2048	25.62	2048
7/1/2048	24.91	22.86	0%	24.91	0.710	7/1/2048	25.62	2048
8/1/2048	24.91	22.86	0%	24.91	0.710	8/1/2048	25.62	2048
9/1/2048	24.91	23.81	0%	24.91	0.710	9/1/2048	25.62	2048
10/1/2048	24.91	23.37	0%	24.91	0.710	10/1/2048	25.62	2048
11/1/2048	24.91	22.97	0%	24.91	0.710	11/1/2048	25.62	2048
12/1/2048	24.91	23.02	0%	24.91	0.710	12/1/2048	25.62	2048
1/1/2049	25.53	23.27	0%	25.53	0.710	1/1/2049	26.24	2049
2/1/2049	25.53	23.30	0%	25.53	0.710	2/1/2049	26.24	2049
3/1/2049	25.53	23.33	0%	25.53	0.721	3/1/2049	26.25	2049
4/1/2049	25.53	23.36	0%	25.53	0.721	4/1/2049	26.25	2049
5/1/2049	25.53	23.39	0%	25.53	0.721	5/1/2049	26.25	2049
6/1/2049	25.53	23.42	0%	25.53	0.721	6/1/2049	26.25	2049
7/1/2049	25.53	23.32	0%	25.53	0.721	7/1/2049	26.25	2049
8/1/2049	25.53	23.32	0%	25.53	0.721	8/1/2049	26.25	2049
9/1/2049	25.53	24.29	0%	25.53	0.721	9/1/2049	26.25	2049
10/1/2049	25.53	23.83	0%	25.53	0.721	10/1/2049	26.25	2049
11/1/2049	25.53	23.43	0%	25.53	0.721	11/1/2049	26.25	2049
12/1/2049	25.53	23.48	0%	25.53	0.721	12/1/2049	26.25	2049
1/1/2050	25.53	23.73	0%	25.53	0.721	1/1/2050	26.25	2050
2/1/2050	25.53	23.76	0%	25.53	0.721	2/1/2050	26.25	2050
3/1/2050	25.53	23.79	0%	25.53	0.731	3/1/2050	26.27	2050
4/1/2050	25.53	23.83	0%	25.53	0.731	4/1/2050	26.27	2050
5/1/2050	25.53	23.86	0%	25.53	0.731	5/1/2050	26.27	2050
6/1/2050	25.53	23.89	0%	25.53	0.731	6/1/2050	26.27	2050
7/1/2050	25.53	23.78	0%	25.53	0.731	7/1/2050	26.27	2050
8/1/2050	25.53	23.78	0%	25.53	0.731	8/1/2050	26.27	2050
9/1/2050	25.53	24.77	0%	25.53	0.731	9/1/2050	26.27	2050
10/1/2050	25.53	24.31	0%	25.53	0.731	10/1/2050	26.27	2050
11/1/2050	25.53	23.90	0%	25.53	0.731	11/1/2050	26.27	2050
12/1/2050	25.53	23.95	0%	25.53	0.731	12/1/2050	26.27	2050

Bartow CC

PETROLEUM PRODUCT PRICE FORECAST DATA

Date	Petroleum Product Price Forecast - Gulf Coast	TCM	Blend TCM/ Fundamental (%)	Blend TCM/ Fundamental ($)	Bartow CC Transport ($/MMBtu)
1/1/2019	14.62	12.93	100%	12.93	0.414
2/1/2019	14.62	13.87	100%	13.87	0.414
3/1/2019	14.62	13.78	100%	13.78	0.414
4/1/2019	14.62	14.33	100%	14.33	0.414
5/1/2019	14.62	14.29	100%	14.29	0.414
6/1/2019	14.62	13.17	100%	13.17	0.414
7/1/2019	14.62	13.86	100%	13.86	0.414
8/1/2019	14.62	13.04	100%	13.04	0.414
9/1/2019	14.62	13.58	100%	13.58	0.414
10/1/2019	14.62	13.31	100%	13.31	0.414
11/1/2019	14.62	13.08	100%	13.08	0.414
12/1/2019	14.62	13.09	100%	13.09	0.414
1/1/2020	13.66	13.80	100%	13.80	0.420
2/1/2020	13.66	14.09	100%	14.09	0.420
3/1/2020	13.66	14.60	100%	14.60	0.420
4/1/2020	13.66	14.42	100%	14.42	0.420
5/1/2020	13.66	13.11	100%	13.11	0.420
6/1/2020	13.66	13.60	100%	13.60	0.420
7/1/2020	13.66	12.98	100%	12.98	0.420
8/1/2020	13.66	13.82	100%	13.82	0.420
9/1/2020	13.66	13.64	100%	13.64	0.420
10/1/2020	13.66	13.38	100%	13.38	0.420
11/1/2020	13.66	13.16	100%	13.16	0.420
12/1/2020	13.66	13.18	100%	13.18	0.420
1/1/2021	13.38	13.24	100%	13.24	0.426
2/1/2021	13.38	13.26	100%	13.26	0.426
3/1/2021	13.38	13.28	100%	13.28	0.426
4/1/2021	13.38	13.30	100%	13.30	0.426
5/1/2021	13.38	13.31	100%	13.31	0.426
6/1/2021	13.38	13.33	100%	13.33	0.426
7/1/2021	13.38	13.33	100%	13.33	0.426
8/1/2021	13.38	13.33	100%	13.33	0.426
9/1/2021	13.38	13.89	100%	13.89	0.426
10/1/2021	13.38	13.63	100%	13.63	0.426
11/1/2021	13.38	13.40	100%	13.40	0.426
12/1/2021	13.38	13.42	96%	13.42	0.426
1/1/2022	13.44	13.57	92%	13.56	0.433
2/1/2022	13.44	13.59	88%	13.57	0.433
3/1/2022	13.44	13.61	84%	13.58	0.433
4/1/2022	13.44	13.62	80%	13.59	0.433
5/1/2022	13.44	13.64	76%	13.59	0.433
6/1/2022	13.44	13.66	72%	13.60	0.433
7/1/2022	13.44	13.66	68%	13.59	0.433
8/1/2022	13.44	13.66	64%	13.58	0.433
9/1/2022	13.44	14.23	60%	13.92	0.433
10/1/2022	13.44	13.96	56%	13.73	0.433
11/1/2022	13.44	13.73	52%	13.59	0.433
12/1/2022	13.44	13.75	48%	13.59	0.433
1/1/2023	13.75	13.90	44%	13.82	0.439
2/1/2023	13.75	13.92	40%	13.82	0.439
3/1/2023	13.75	13.94	36%	13.82	0.439
4/1/2023	13.75	13.96	32%	13.82	0.439
5/1/2023	13.75	13.98	28%	13.81	0.439
6/1/2023	13.75	13.99	24%	13.81	0.439
7/1/2023	13.75	13.93	20%	13.79	0.439
8/1/2023	13.75	13.93	16%	13.78	0.439
9/1/2023	13.75	14.51	12%	13.84	0.439
10/1/2023	13.75	14.24	8%	13.79	0.439
11/1/2023	13.75	14.00	4%	13.76	0.439
12/1/2023	13.75	14.03	0%	13.75	0.439
1/1/2024	14.08	14.18	0%	14.08	0.446
2/1/2024	14.08	14.20	0%	14.08	0.446
3/1/2024	14.08	14.22	0%	14.08	0.446
4/1/2024	14.08	14.24	0%	14.08	0.446
5/1/2024	14.08	14.26	0%	14.08	0.446

PROSYM INPUT

Date	nomianl$/MMBtu
1/1/2019	13.34
2/1/2019	14.28
3/1/2019	14.20
4/1/2019	14.74
5/1/2019	14.70
6/1/2019	13.58
7/1/2019	14.28
8/1/2019	13.46
9/1/2019	13.99
10/1/2019	13.73
11/1/2019	13.49
12/1/2019	13.50
1/1/2020	14.22
2/1/2020	14.51
3/1/2020	15.02
4/1/2020	14.84
5/1/2020	13.53
6/1/2020	14.02
7/1/2020	13.40
8/1/2020	14.24
9/1/2020	14.06
10/1/2020	13.80
11/1/2020	13.58
12/1/2020	13.60
1/1/2021	13.67
2/1/2021	13.69
3/1/2021	13.71
4/1/2021	13.72
5/1/2021	13.74
6/1/2021	13.76
7/1/2021	13.76
8/1/2021	13.76
9/1/2021	14.31
10/1/2021	14.05
11/1/2021	13.83
12/1/2021	13.85
1/1/2022	13.99
2/1/2022	14.00
3/1/2022	14.01
4/1/2022	14.02
5/1/2022	14.03
6/1/2022	14.03
7/1/2022	14.02
8/1/2022	14.01
9/1/2022	14.35
10/1/2022	14.17
11/1/2022	14.02
12/1/2022	14.03
1/1/2023	14.26
2/1/2023	14.26
3/1/2023	14.26
4/1/2023	14.26
5/1/2023	14.25
6/1/2023	14.25
7/1/2023	14.23
8/1/2023	14.22
9/1/2023	14.28
10/1/2023	14.23
11/1/2023	14.20
12/1/2023	14.19
1/1/2024	14.53
2/1/2024	14.53
3/1/2024	14.53
4/1/2024	14.53
5/1/2024	14.53

ANNUAL AVERAGE

		Bartow CC
2019	2019	13.94
2019	2020	14.07
2019	2021	13.82
2019	2022	14.06
2019	2023	14.24
2019	2024	14.53
2019	2025	14.89
2019	2026	15.45
2019	2027	16.11
2019	2028	16.86
2019	2029	17.55
2019	2030	17.98
2020	2031	18.39
2020	2032	18.80
2020	2033	19.24
2020	2034	19.67
2020	2035	20.12
2020	2036	20.58
2020	2037	21.06
2020	2038	21.46
2020	2039	21.84
2020	2040	21.99
2020	2041	22.55
2020	2042	23.13
2021	2043	23.33
2021	2044	23.93
2021	2045	24.12
2021	2046	24.74
2021	2047	25.35
2021	2048	25.54
2021	2049	26.18
2021	2050	26.19
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6/1/2024	14.08	14.27	0%	14.08	0.446	6/1/2024	14.53	2024
7/1/2024	14.08	14.21	0%	14.08	0.446	7/1/2024	14.53	2024
8/1/2024	14.08	14.21	0%	14.08	0.446	8/1/2024	14.53	2024
9/1/2024	14.08	14.80	0%	14.08	0.446	9/1/2024	14.53	2024
10/1/2024	14.08	14.53	0%	14.08	0.446	10/1/2024	14.53	2024
11/1/2024	14.08	14.28	0%	14.08	0.446	11/1/2024	14.53	2024
12/1/2024	14.08	14.31	0%	14.08	0.446	12/1/2024	14.53	2024
1/1/2025	14.43	14.47	0%	14.43	0.452	1/1/2025	14.89	2025
2/1/2025	14.43	14.48	0%	14.43	0.452	2/1/2025	14.89	2025
3/1/2025	14.43	14.50	0%	14.43	0.452	3/1/2025	14.89	2025
4/1/2025	14.43	14.52	0%	14.43	0.452	4/1/2025	14.89	2025
5/1/2025	14.43	14.54	0%	14.43	0.452	5/1/2025	14.89	2025
6/1/2025	14.43	14.56	0%	14.43	0.452	6/1/2025	14.89	2025
7/1/2025	14.43	14.50	0%	14.43	0.452	7/1/2025	14.89	2025
8/1/2025	14.43	14.50	0%	14.43	0.452	8/1/2025	14.89	2025
9/1/2025	14.43	15.10	0%	14.43	0.452	9/1/2025	14.89	2025
10/1/2025	14.43	14.82	0%	14.43	0.452	10/1/2025	14.89	2025
11/1/2025	14.43	14.57	0%	14.43	0.452	11/1/2025	14.89	2025
12/1/2025	14.43	14.60	0%	14.43	0.452	12/1/2025	14.89	2025
1/1/2026	15.00	14.75	0%	15.00	0.459	1/1/2026	15.45	2026
2/1/2026	15.00	14.77	0%	15.00	0.459	2/1/2026	15.45	2026
3/1/2026	15.00	14.79	0%	15.00	0.459	3/1/2026	15.45	2026
4/1/2026	15.00	14.81	0%	15.00	0.459	4/1/2026	15.45	2026
5/1/2026	15.00	14.83	0%	15.00	0.459	5/1/2026	15.45	2026
6/1/2026	15.00	14.85	0%	15.00	0.459	6/1/2026	15.45	2026
7/1/2026	15.00	14.79	0%	15.00	0.459	7/1/2026	15.45	2026
8/1/2026	15.00	14.79	0%	15.00	0.459	8/1/2026	15.45	2026
9/1/2026	15.00	15.40	0%	15.00	0.459	9/1/2026	15.45	2026
10/1/2026	15.00	15.11	0%	15.00	0.459	10/1/2026	15.45	2026
11/1/2026	15.00	14.86	0%	15.00	0.459	11/1/2026	15.45	2026
12/1/2026	15.00	14.89	0%	15.00	0.459	12/1/2026	15.45	2026
1/1/2027	15.64	15.05	0%	15.64	0.466	1/1/2027	16.11	2027
2/1/2027	15.64	15.07	0%	15.64	0.466	2/1/2027	16.11	2027
3/1/2027	15.64	15.09	0%	15.64	0.466	3/1/2027	16.11	2027
4/1/2027	15.64	15.11	0%	15.64	0.466	4/1/2027	16.11	2027
5/1/2027	15.64	15.13	0%	15.64	0.466	5/1/2027	16.11	2027
6/1/2027	15.64	15.15	0%	15.64	0.466	6/1/2027	16.11	2027
7/1/2027	15.64	15.08	0%	15.64	0.466	7/1/2027	16.11	2027
8/1/2027	15.64	15.08	0%	15.64	0.466	8/1/2027	16.11	2027
9/1/2027	15.64	15.71	0%	15.64	0.466	9/1/2027	16.11	2027
10/1/2027	15.64	15.42	0%	15.64	0.466	10/1/2027	16.11	2027
11/1/2027	15.64	15.16	0%	15.64	0.466	11/1/2027	16.11	2027
12/1/2027	15.64	15.19	0%	15.64	0.466	12/1/2027	16.11	2027
1/1/2028	16.39	15.35	0%	16.39	0.473	1/1/2028	16.86	2028
2/1/2028	16.39	15.37	0%	16.39	0.473	2/1/2028	16.86	2028
3/1/2028	16.39	15.39	0%	16.39	0.473	3/1/2028	16.86	2028
4/1/2028	16.39	15.41	0%	16.39	0.473	4/1/2028	16.86	2028
5/1/2028	16.39	15.43	0%	16.39	0.473	5/1/2028	16.86	2028
6/1/2028	16.39	15.45	0%	16.39	0.473	6/1/2028	16.86	2028
7/1/2028	16.39	15.38	0%	16.39	0.473	7/1/2028	16.86	2028
8/1/2028	16.39	15.38	0%	16.39	0.473	8/1/2028	16.86	2028
9/1/2028	16.39	16.03	0%	16.39	0.473	9/1/2028	16.86	2028
10/1/2028	16.39	15.73	0%	16.39	0.473	10/1/2028	16.86	2028
11/1/2028	16.39	15.46	0%	16.39	0.473	11/1/2028	16.86	2028
12/1/2028	16.39	15.49	0%	16.39	0.473	12/1/2028	16.86	2028
1/1/2029	17.07	15.66	0%	17.07	0.480	1/1/2029	17.55	2029
2/1/2029	17.07	15.68	0%	17.07	0.480	2/1/2029	17.55	2029
3/1/2029	17.07	15.70	0%	17.07	0.480	3/1/2029	17.55	2029
4/1/2029	17.07	15.72	0%	17.07	0.480	4/1/2029	17.55	2029
5/1/2029	17.07	15.74	0%	17.07	0.480	5/1/2029	17.55	2029
6/1/2029	17.07	15.76	0%	17.07	0.480	6/1/2029	17.55	2029
7/1/2029	17.07	15.69	0%	17.07	0.480	7/1/2029	17.55	2029
8/1/2029	17.07	15.69	0%	17.07	0.480	8/1/2029	17.55	2029
9/1/2029	17.07	16.35	0%	17.07	0.480	9/1/2029	17.55	2029
10/1/2029	17.07	16.04	0%	17.07	0.480	10/1/2029	17.55	2029
11/1/2029	17.07	15.77	0%	17.07	0.480	11/1/2029	17.55	2029
12/1/2029	17.07	15.80	0%	17.07	0.480	12/1/2029	17.55	2029
1/1/2030	17.50	15.97	0%	17.50	0.487	1/1/2030	17.98	2030
2/1/2030	17.50	15.99	0%	17.50	0.487	2/1/2030	17.98	2030
3/1/2030	17.50	16.01	0%	17.50	0.487	3/1/2030	17.98	2030
4/1/2030	17.50	16.03	0%	17.50	0.487	4/1/2030	17.98	2030

5/1/2030	17.50	16.05	0%	17.50	0.487	5/1/2030	17.98	2030
6/1/2030	17.50	16.08	0%	17.50	0.487	6/1/2030	17.98	2030
7/1/2030	17.50	16.00	0%	17.50	0.487	7/1/2030	17.98	2030
8/1/2030	17.50	16.00	0%	17.50	0.487	8/1/2030	17.98	2030
9/1/2030	17.50	16.67	0%	17.50	0.487	9/1/2030	17.98	2030
10/1/2030	17.50	16.36	0%	17.50	0.487	10/1/2030	17.98	2030
11/1/2030	17.50	16.09	0%	17.50	0.487	11/1/2030	17.98	2030
12/1/2030	17.50	16.12	0%	17.50	0.487	12/1/2030	17.98	2030
1/1/2031	17.89	16.29	0%	17.89	0.495	1/1/2031	18.39	2031
2/1/2031	17.89	16.31	0%	17.89	0.495	2/1/2031	18.39	2031
3/1/2031	17.89	16.33	0%	17.89	0.495	3/1/2031	18.39	2031
4/1/2031	17.89	16.35	0%	17.89	0.495	4/1/2031	18.39	2031
5/1/2031	17.89	16.38	0%	17.89	0.495	5/1/2031	18.39	2031
6/1/2031	17.89	16.40	0%	17.89	0.495	6/1/2031	18.39	2031
7/1/2031	17.89	16.32	0%	17.89	0.495	7/1/2031	18.39	2031
8/1/2031	17.89	16.32	0%	17.89	0.495	8/1/2031	18.39	2031
9/1/2031	17.89	17.01	0%	17.89	0.495	9/1/2031	18.39	2031
10/1/2031	17.89	16.69	0%	17.89	0.495	10/1/2031	18.39	2031
11/1/2031	17.89	16.41	0%	17.89	0.495	11/1/2031	18.39	2031
12/1/2031	17.89	16.44	0%	17.89	0.495	12/1/2031	18.39	2031
1/1/2032	18.30	16.62	0%	18.30	0.502	1/1/2032	18.80	2032
2/1/2032	18.30	16.64	0%	18.30	0.502	2/1/2032	18.80	2032
3/1/2032	18.30	16.66	0%	18.30	0.502	3/1/2032	18.80	2032
4/1/2032	18.30	16.68	0%	18.30	0.502	4/1/2032	18.80	2032
5/1/2032	18.30	16.70	0%	18.30	0.502	5/1/2032	18.80	2032
6/1/2032	18.30	16.72	0%	18.30	0.502	6/1/2032	18.80	2032
7/1/2032	18.30	16.65	0%	18.30	0.502	7/1/2032	18.80	2032
8/1/2032	18.30	16.65	0%	18.30	0.502	8/1/2032	18.80	2032
9/1/2032	18.30	17.35	0%	18.30	0.502	9/1/2032	18.80	2032
10/1/2032	18.30	17.02	0%	18.30	0.502	10/1/2032	18.80	2032
11/1/2032	18.30	16.74	0%	18.30	0.502	11/1/2032	18.80	2032
12/1/2032	18.30	16.77	0%	18.30	0.502	12/1/2032	18.80	2032
1/1/2033	18.73	16.95	0%	18.73	0.510	1/1/2033	19.24	2033
2/1/2033	18.73	16.97	0%	18.73	0.510	2/1/2033	19.24	2033
3/1/2033	18.73	16.99	0%	18.73	0.510	3/1/2033	19.24	2033
4/1/2033	18.73	17.01	0%	18.73	0.510	4/1/2033	19.24	2033
5/1/2033	18.73	17.04	0%	18.73	0.510	5/1/2033	19.24	2033
6/1/2033	18.73	17.06	0%	18.73	0.510	6/1/2033	19.24	2033
7/1/2033	18.73	16.98	0%	18.73	0.510	7/1/2033	19.24	2033
8/1/2033	18.73	16.98	0%	18.73	0.510	8/1/2033	19.24	2033
9/1/2033	18.73	17.69	0%	18.73	0.510	9/1/2033	19.24	2033
10/1/2033	18.73	17.36	0%	18.73	0.510	10/1/2033	19.24	2033
11/1/2033	18.73	17.07	0%	18.73	0.510	11/1/2033	19.24	2033
12/1/2033	18.73	17.10	0%	18.73	0.510	12/1/2033	19.24	2033
1/1/2034	19.16	17.29	0%	19.16	0.517	1/1/2034	19.67	2034
2/1/2034	19.16	17.31	0%	19.16	0.517	2/1/2034	19.67	2034
3/1/2034	19.16	17.33	0%	19.16	0.517	3/1/2034	19.67	2034
4/1/2034	19.16	17.36	0%	19.16	0.517	4/1/2034	19.67	2034
5/1/2034	19.16	17.38	0%	19.16	0.517	5/1/2034	19.67	2034
6/1/2034	19.16	17.40	0%	19.16	0.517	6/1/2034	19.67	2034
7/1/2034	19.16	17.32	0%	19.16	0.517	7/1/2034	19.67	2034
8/1/2034	19.16	17.32	0%	19.16	0.517	8/1/2034	19.67	2034
9/1/2034	19.16	18.05	0%	19.16	0.517	9/1/2034	19.67	2034
10/1/2034	19.16	17.71	0%	19.16	0.517	10/1/2034	19.67	2034
11/1/2034	19.16	17.41	0%	19.16	0.517	11/1/2034	19.67	2034
12/1/2034	19.16	17.44	0%	19.16	0.517	12/1/2034	19.67	2034
1/1/2035	19.60	17.63	0%	19.60	0.525	1/1/2035	20.12	2035
2/1/2035	19.60	17.66	0%	19.60	0.525	2/1/2035	20.12	2035
3/1/2035	19.60	17.68	0%	19.60	0.525	3/1/2035	20.12	2035
4/1/2035	19.60	17.70	0%	19.60	0.525	4/1/2035	20.12	2035
5/1/2035	19.60	17.73	0%	19.60	0.525	5/1/2035	20.12	2035
6/1/2035	19.60	17.75	0%	19.60	0.525	6/1/2035	20.12	2035
7/1/2035	19.60	17.67	0%	19.60	0.525	7/1/2035	20.12	2035
8/1/2035	19.60	17.67	0%	19.60	0.525	8/1/2035	20.12	2035
9/1/2035	19.60	18.41	0%	19.60	0.525	9/1/2035	20.12	2035
10/1/2035	19.60	18.06	0%	19.60	0.525	10/1/2035	20.12	2035
11/1/2035	19.60	17.76	0%	19.60	0.525	11/1/2035	20.12	2035
12/1/2035	19.60	17.79	0%	19.60	0.525	12/1/2035	20.12	2035
1/1/2036	20.05	17.99	0%	20.05	0.525	1/1/2036	20.58	2036
2/1/2036	20.05	18.01	0%	20.05	0.525	2/1/2036	20.58	2036
3/1/2036	20.05	18.03	0%	20.05	0.533	3/1/2036	20.58	2036

4/1/2036	20.05	18.06	0%	20.05	0.533	4/1/2036	20.58	2036
5/1/2036	20.05	18.08	0%	20.05	0.533	5/1/2036	20.58	2036
6/1/2036	20.05	18.10	0%	20.05	0.533	6/1/2036	20.58	2036
7/1/2036	20.05	18.02	0%	20.05	0.533	7/1/2036	20.58	2036
8/1/2036	20.05	18.02	0%	20.05	0.533	8/1/2036	20.58	2036
9/1/2036	20.05	18.78	0%	20.05	0.533	9/1/2036	20.58	2036
10/1/2036	20.05	18.42	0%	20.05	0.533	10/1/2036	20.58	2036
11/1/2036	20.05	18.12	0%	20.05	0.533	11/1/2036	20.58	2036
12/1/2036	20.05	18.15	0%	20.05	0.533	12/1/2036	20.58	2036
1/1/2037	20.52	18.35	0%	20.52	0.533	1/1/2037	21.05	2037
2/1/2037	20.52	18.37	0%	20.52	0.533	2/1/2037	21.05	2037
3/1/2037	20.52	18.39	0%	20.52	0.541	3/1/2037	21.06	2037
4/1/2037	20.52	18.42	0%	20.52	0.541	4/1/2037	21.06	2037
5/1/2037	20.52	18.44	0%	20.52	0.541	5/1/2037	21.06	2037
6/1/2037	20.52	18.47	0%	20.52	0.541	6/1/2037	21.06	2037
7/1/2037	20.52	18.38	0%	20.52	0.541	7/1/2037	21.06	2037
8/1/2037	20.52	18.38	0%	20.52	0.541	8/1/2037	21.06	2037
9/1/2037	20.52	19.15	0%	20.52	0.541	9/1/2037	21.06	2037
10/1/2037	20.52	18.79	0%	20.52	0.541	10/1/2037	21.06	2037
11/1/2037	20.52	18.48	0%	20.52	0.541	11/1/2037	21.06	2037
12/1/2037	20.52	18.51	0%	20.52	0.541	12/1/2037	21.06	2037
1/1/2038	20.91	18.71	0%	20.91	0.541	1/1/2038	21.45	2038
2/1/2038	20.91	18.74	0%	20.91	0.541	2/1/2038	21.45	2038
3/1/2038	20.91	18.76	0%	20.91	0.549	3/1/2038	21.46	2038
4/1/2038	20.91	18.79	0%	20.91	0.549	4/1/2038	21.46	2038
5/1/2038	20.91	18.81	0%	20.91	0.549	5/1/2038	21.46	2038
6/1/2038	20.91	18.83	0%	20.91	0.549	6/1/2038	21.46	2038
7/1/2038	20.91	18.75	0%	20.91	0.549	7/1/2038	21.46	2038
8/1/2038	20.91	18.75	0%	20.91	0.549	8/1/2038	21.46	2038
9/1/2038	20.91	19.53	0%	20.91	0.549	9/1/2038	21.46	2038
10/1/2038	20.91	19.17	0%	20.91	0.549	10/1/2038	21.46	2038
11/1/2038	20.91	18.85	0%	20.91	0.549	11/1/2038	21.46	2038
12/1/2038	20.91	18.88	0%	20.91	0.549	12/1/2038	21.46	2038
1/1/2039	21.29	19.09	0%	21.29	0.549	1/1/2039	21.83	2039
2/1/2039	21.29	19.11	0%	21.29	0.549	2/1/2039	21.83	2039
3/1/2039	21.29	19.14	0%	21.29	0.557	3/1/2039	21.84	2039
4/1/2039	21.29	19.16	0%	21.29	0.557	4/1/2039	21.84	2039
5/1/2039	21.29	19.19	0%	21.29	0.557	5/1/2039	21.84	2039
6/1/2039	21.29	19.21	0%	21.29	0.557	6/1/2039	21.84	2039
7/1/2039	21.29	19.13	0%	21.29	0.557	7/1/2039	21.84	2039
8/1/2039	21.29	19.13	0%	21.29	0.557	8/1/2039	21.84	2039
9/1/2039	21.29	19.93	0%	21.29	0.557	9/1/2039	21.84	2039
10/1/2039	21.29	19.55	0%	21.29	0.557	10/1/2039	21.84	2039
11/1/2039	21.29	19.22	0%	21.29	0.557	11/1/2039	21.84	2039
12/1/2039	21.29	19.26	0%	21.29	0.557	12/1/2039	21.84	2039
1/1/2040	21.42	19.47	0%	21.42	0.557	1/1/2040	21.98	2040
2/1/2040	21.42	19.49	0%	21.42	0.557	2/1/2040	21.98	2040
3/1/2040	21.42	19.52	0%	21.42	0.566	3/1/2040	21.99	2040
4/1/2040	21.42	19.54	0%	21.42	0.566	4/1/2040	21.99	2040
5/1/2040	21.42	19.57	0%	21.42	0.566	5/1/2040	21.99	2040
6/1/2040	21.42	19.60	0%	21.42	0.566	6/1/2040	21.99	2040
7/1/2040	21.42	19.51	0%	21.42	0.566	7/1/2040	21.99	2040
8/1/2040	21.42	19.51	0%	21.42	0.566	8/1/2040	21.99	2040
9/1/2040	21.42	20.32	0%	21.42	0.566	9/1/2040	21.99	2040
10/1/2040	21.42	19.94	0%	21.42	0.566	10/1/2040	21.99	2040
11/1/2040	21.42	19.61	0%	21.42	0.566	11/1/2040	21.99	2040
12/1/2040	21.42	19.64	0%	21.42	0.566	12/1/2040	21.99	2040
1/1/2041	21.98	19.86	0%	21.98	0.566	1/1/2041	22.54	2041
2/1/2041	21.98	19.88	0%	21.98	0.566	2/1/2041	22.54	2041
3/1/2041	21.98	19.91	0%	21.98	0.574	3/1/2041	22.55	2041
4/1/2041	21.98	19.94	0%	21.98	0.574	4/1/2041	22.55	2041
5/1/2041	21.98	19.96	0%	21.98	0.574	5/1/2041	22.55	2041
6/1/2041	21.98	19.99	0%	21.98	0.574	6/1/2041	22.55	2041
7/1/2041	21.98	19.90	0%	21.98	0.574	7/1/2041	22.55	2041
8/1/2041	21.98	19.90	0%	21.98	0.574	8/1/2041	22.55	2041
9/1/2041	21.98	20.73	0%	21.98	0.574	9/1/2041	22.55	2041
10/1/2041	21.98	20.34	0%	21.98	0.574	10/1/2041	22.55	2041
11/1/2041	21.98	20.00	0%	21.98	0.574	11/1/2041	22.55	2041
12/1/2041	21.98	20.04	0%	21.98	0.574	12/1/2041	22.55	2041
1/1/2042	22.55	20.25	0%	22.55	0.574	1/1/2042	23.12	2042
2/1/2042	22.55	20.28	0%	22.55	0.574	2/1/2042	23.12	2042

3/1/2042	22.55	20.31	0%	22.55	0.583	3/1/2042	23.13	2042
4/1/2042	22.55	20.33	0%	22.55	0.583	4/1/2042	23.13	2042
5/1/2042	22.55	20.36	0%	22.55	0.583	5/1/2042	23.13	2042
6/1/2042	22.55	20.39	0%	22.55	0.583	6/1/2042	23.13	2042
7/1/2042	22.55	20.30	0%	22.55	0.583	7/1/2042	23.13	2042
8/1/2042	22.55	20.30	0%	22.55	0.583	8/1/2042	23.13	2042
9/1/2042	22.55	21.14	0%	22.55	0.583	9/1/2042	23.13	2042
10/1/2042	22.55	20.75	0%	22.55	0.583	10/1/2042	23.13	2042
11/1/2042	22.55	20.40	0%	22.55	0.583	11/1/2042	23.13	2042
12/1/2042	22.55	20.44	0%	22.55	0.583	12/1/2042	23.13	2042
1/1/2043	22.74	20.66	0%	22.74	0.583	1/1/2043	23.32	2043
2/1/2043	22.74	20.69	0%	22.74	0.583	2/1/2043	23.32	2043
3/1/2043	22.74	20.71	0%	22.74	0.591	3/1/2043	23.33	2043
4/1/2043	22.74	20.74	0%	22.74	0.591	4/1/2043	23.33	2043
5/1/2043	22.74	20.77	0%	22.74	0.591	5/1/2043	23.33	2043
6/1/2043	22.74	20.80	0%	22.74	0.591	6/1/2043	23.33	2043
7/1/2043	22.74	20.70	0%	22.74	0.591	7/1/2043	23.33	2043
8/1/2043	22.74	20.70	0%	22.74	0.591	8/1/2043	23.33	2043
9/1/2043	22.74	21.57	0%	22.74	0.591	9/1/2043	23.33	2043
10/1/2043	22.74	21.16	0%	22.74	0.591	10/1/2043	23.33	2043
11/1/2043	22.74	20.81	0%	22.74	0.591	11/1/2043	23.33	2043
12/1/2043	22.74	20.85	0%	22.74	0.591	12/1/2043	23.33	2043
1/1/2044	23.33	21.07	0%	23.33	0.591	1/1/2044	23.92	2044
2/1/2044	23.33	21.10	0%	23.33	0.591	2/1/2044	23.92	2044
3/1/2044	23.33	21.13	0%	23.33	0.600	3/1/2044	23.93	2044
4/1/2044	23.33	21.16	0%	23.33	0.600	4/1/2044	23.93	2044
5/1/2044	23.33	21.18	0%	23.33	0.600	5/1/2044	23.93	2044
6/1/2044	23.33	21.21	0%	23.33	0.600	6/1/2044	23.93	2044
7/1/2044	23.33	21.12	0%	23.33	0.600	7/1/2044	23.93	2044
8/1/2044	23.33	21.12	0%	23.33	0.600	8/1/2044	23.93	2044
9/1/2044	23.33	22.00	0%	23.33	0.600	9/1/2044	23.93	2044
10/1/2044	23.33	21.59	0%	23.33	0.600	10/1/2044	23.93	2044
11/1/2044	23.33	21.22	0%	23.33	0.600	11/1/2044	23.93	2044
12/1/2044	23.33	21.26	0%	23.33	0.600	12/1/2044	23.93	2044
1/1/2045	23.52	21.49	0%	23.52	0.600	1/1/2045	24.12	2045
2/1/2045	23.52	21.52	0%	23.52	0.600	2/1/2045	24.12	2045
3/1/2045	23.52	21.55	0%	23.52	0.609	3/1/2045	24.13	2045
4/1/2045	23.52	21.58	0%	23.52	0.609	4/1/2045	24.13	2045
5/1/2045	23.52	21.61	0%	23.52	0.609	5/1/2045	24.13	2045
6/1/2045	23.52	21.64	0%	23.52	0.609	6/1/2045	24.13	2045
7/1/2045	23.52	21.54	0%	23.52	0.609	7/1/2045	24.13	2045
8/1/2045	23.52	21.54	0%	23.52	0.609	8/1/2045	24.13	2045
9/1/2045	23.52	22.44	0%	23.52	0.609	9/1/2045	24.13	2045
10/1/2045	23.52	22.02	0%	23.52	0.609	10/1/2045	24.13	2045
11/1/2045	23.52	21.65	0%	23.52	0.609	11/1/2045	24.13	2045
12/1/2045	23.52	21.69	0%	23.52	0.609	12/1/2045	24.13	2045
1/1/2046	24.12	21.92	0%	24.12	0.609	1/1/2046	24.73	2046
2/1/2046	24.12	21.95	0%	24.12	0.609	2/1/2046	24.73	2046
3/1/2046	24.12	21.98	0%	24.12	0.618	3/1/2046	24.74	2046
4/1/2046	24.12	22.01	0%	24.12	0.618	4/1/2046	24.74	2046
5/1/2046	24.12	22.04	0%	24.12	0.618	5/1/2046	24.74	2046
6/1/2046	24.12	22.07	0%	24.12	0.618	6/1/2046	24.74	2046
7/1/2046	24.12	21.97	0%	24.12	0.618	7/1/2046	24.74	2046
8/1/2046	24.12	21.97	0%	24.12	0.618	8/1/2046	24.74	2046
9/1/2046	24.12	22.89	0%	24.12	0.618	9/1/2046	24.74	2046
10/1/2046	24.12	22.46	0%	24.12	0.618	10/1/2046	24.74	2046
11/1/2046	24.12	22.08	0%	24.12	0.618	11/1/2046	24.74	2046
12/1/2046	24.12	22.12	0%	24.12	0.618	12/1/2046	24.74	2046
1/1/2047	24.73	22.36	0%	24.73	0.618	1/1/2047	25.35	2047
2/1/2047	24.73	22.39	0%	24.73	0.618	2/1/2047	25.35	2047
3/1/2047	24.73	22.42	0%	24.73	0.628	3/1/2047	25.36	2047
4/1/2047	24.73	22.45	0%	24.73	0.628	4/1/2047	25.36	2047
5/1/2047	24.73	22.48	0%	24.73	0.628	5/1/2047	25.36	2047
6/1/2047	24.73	22.51	0%	24.73	0.628	6/1/2047	25.36	2047
7/1/2047	24.73	22.41	0%	24.73	0.628	7/1/2047	25.36	2047
8/1/2047	24.73	22.41	0%	24.73	0.628	8/1/2047	25.36	2047
9/1/2047	24.73	23.35	0%	24.73	0.628	9/1/2047	25.36	2047
10/1/2047	24.73	22.91	0%	24.73	0.628	10/1/2047	25.36	2047
11/1/2047	24.73	22.52	0%	24.73	0.628	11/1/2047	25.36	2047
12/1/2047	24.73	22.57	0%	24.73	0.628	12/1/2047	25.36	2047
1/1/2048	24.91	22.81	0%	24.91	0.628	1/1/2048	25.53	2048

2/1/2048	24.91	22.84	0%	24.91	0.628	2/1/2048	25.53	2048
3/1/2048	24.91	22.87	0%	24.91	0.637	3/1/2048	25.54	2048
4/1/2048	24.91	22.90	0%	24.91	0.637	4/1/2048	25.54	2048
5/1/2048	24.91	22.93	0%	24.91	0.637	5/1/2048	25.54	2048
6/1/2048	24.91	22.96	0%	24.91	0.637	6/1/2048	25.54	2048
7/1/2048	24.91	22.86	0%	24.91	0.637	7/1/2048	25.54	2048
8/1/2048	24.91	22.86	0%	24.91	0.637	8/1/2048	25.54	2048
9/1/2048	24.91	23.81	0%	24.91	0.637	9/1/2048	25.54	2048
10/1/2048	24.91	23.37	0%	24.91	0.637	10/1/2048	25.54	2048
11/1/2048	24.91	22.97	0%	24.91	0.637	11/1/2048	25.54	2048
12/1/2048	24.91	23.02	0%	24.91	0.637	12/1/2048	25.54	2048
1/1/2049	25.53	23.27	0%	25.53	0.637	1/1/2049	26.17	2049
2/1/2049	25.53	23.30	0%	25.53	0.637	2/1/2049	26.17	2049
3/1/2049	25.53	23.33	0%	25.53	0.647	3/1/2049	26.18	2049
4/1/2049	25.53	23.36	0%	25.53	0.647	4/1/2049	26.18	2049
5/1/2049	25.53	23.39	0%	25.53	0.647	5/1/2049	26.18	2049
6/1/2049	25.53	23.42	0%	25.53	0.647	6/1/2049	26.18	2049
7/1/2049	25.53	23.32	0%	25.53	0.647	7/1/2049	26.18	2049
8/1/2049	25.53	23.32	0%	25.53	0.647	8/1/2049	26.18	2049
9/1/2049	25.53	24.29	0%	25.53	0.647	9/1/2049	26.18	2049
10/1/2049	25.53	23.83	0%	25.53	0.647	10/1/2049	26.18	2049
11/1/2049	25.53	23.43	0%	25.53	0.647	11/1/2049	26.18	2049
12/1/2049	25.53	23.48	0%	25.53	0.647	12/1/2049	26.18	2049
1/1/2050	25.53	23.73	0%	25.53	0.647	1/1/2050	26.18	2050
2/1/2050	25.53	23.76	0%	25.53	0.647	2/1/2050	26.18	2050
3/1/2050	25.53	23.79	0%	25.53	0.656	3/1/2050	26.19	2050
4/1/2050	25.53	23.83	0%	25.53	0.656	4/1/2050	26.19	2050
5/1/2050	25.53	23.86	0%	25.53	0.656	5/1/2050	26.19	2050
6/1/2050	25.53	23.89	0%	25.53	0.656	6/1/2050	26.19	2050
7/1/2050	25.53	23.78	0%	25.53	0.656	7/1/2050	26.19	2050
8/1/2050	25.53	23.78	0%	25.53	0.656	8/1/2050	26.19	2050
9/1/2050	25.53	24.77	0%	25.53	0.656	9/1/2050	26.19	2050
10/1/2050	25.53	24.31	0%	25.53	0.656	10/1/2050	26.19	2050
11/1/2050	25.53	23.90	0%	25.53	0.656	11/1/2050	26.19	2050
12/1/2050	25.53	23.95	0%	25.53	0.656	12/1/2050	26.19	2050

Crystal River

PETROLEUM PRODUCT PRICE FORECAST DATA

Date	Product Price Forecast - Gulf	TCM	Blend TCM/ Fundamental (%)	Blend TCM/ Fundamental ($)	Transport ($/MMBtu)
1/1/2019	14.62	12.93	100%	12.93	0.630
2/1/2019	14.62	13.87	100%	13.87	0.630
3/1/2019	14.62	13.78	100%	13.78	0.630
4/1/2019	14.62	14.33	100%	14.33	0.630
5/1/2019	14.62	14.29	100%	14.29	0.630
6/1/2019	14.62	13.17	100%	13.17	0.630
7/1/2019	14.62	13.86	100%	13.86	0.630
8/1/2019	14.62	13.04	100%	13.04	0.630
9/1/2019	14.62	13.58	100%	13.58	0.630
10/1/2019	14.62	13.31	100%	13.31	0.630
11/1/2019	14.62	13.08	100%	13.08	0.630
12/1/2019	14.62	13.09	100%	13.09	0.630
1/1/2020	13.66	13.80	100%	13.80	0.640
2/1/2020	13.66	14.09	100%	14.09	0.640
3/1/2020	13.66	14.60	100%	14.60	0.640
4/1/2020	13.66	14.42	100%	14.42	0.640
5/1/2020	13.66	13.11	100%	13.11	0.640
6/1/2020	13.66	13.60	100%	13.60	0.640
7/1/2020	13.66	12.98	100%	12.98	0.640
8/1/2020	13.66	13.82	100%	13.82	0.640
9/1/2020	13.66	13.64	100%	13.64	0.640
10/1/2020	13.66	13.38	100%	13.38	0.640
11/1/2020	13.66	13.16	100%	13.16	0.640
12/1/2020	13.66	13.18	100%	13.18	0.640
1/1/2021	13.38	13.24	100%	13.24	0.649
2/1/2021	13.38	13.26	100%	13.26	0.649
3/1/2021	13.38	13.28	100%	13.28	0.649
4/1/2021	13.38	13.30	100%	13.30	0.649
5/1/2021	13.38	13.31	100%	13.31	0.649
6/1/2021	13.38	13.33	100%	13.33	0.649
7/1/2021	13.38	13.33	100%	13.33	0.649
8/1/2021	13.38	13.33	100%	13.33	0.649
9/1/2021	13.38	13.89	100%	13.89	0.649
10/1/2021	13.38	13.63	100%	13.63	0.649
11/1/2021	13.38	13.40	100%	13.40	0.649
12/1/2021	13.38	13.42	100%	13.42	0.649
1/1/2022	13.44	13.57	96%	13.57	0.659
2/1/2022	13.44	13.59	92%	13.58	0.659
3/1/2022	13.44	13.61	88%	13.59	0.659
4/1/2022	13.44	13.62	84%	13.60	0.659
5/1/2022	13.44	13.64	80%	13.60	0.659
6/1/2022	13.44	13.66	76%	13.61	0.659
7/1/2022	13.44	13.66	72%	13.60	0.659
8/1/2022	13.44	13.66	68%	13.59	0.659
9/1/2022	13.44	14.23	64%	13.95	0.659
10/1/2022	13.44	13.96	60%	13.76	0.659
11/1/2022	13.44	13.73	56%	13.60	0.659
12/1/2022	13.44	13.75	52%	13.60	0.659
1/1/2023	13.75	13.90	48%	13.82	0.669
2/1/2023	13.75	13.92	44%	13.83	0.669
3/1/2023	13.75	13.94	40%	13.83	0.669

PROSYM INPUT

Date	nomianl$/MMBtu
1/1/2019	13.56
2/1/2019	14.50
3/1/2019	14.41
4/1/2019	14.96
5/1/2019	14.92
6/1/2019	13.80
7/1/2019	14.49
8/1/2019	13.67
9/1/2019	14.21
10/1/2019	13.94
11/1/2019	13.71
12/1/2019	13.72
1/1/2020	14.44
2/1/2020	14.73
3/1/2020	15.24
4/1/2020	15.06
5/1/2020	13.75
6/1/2020	14.24
7/1/2020	13.62
8/1/2020	14.46
9/1/2020	14.28
10/1/2020	14.02
11/1/2020	13.80
12/1/2020	13.82
1/1/2021	13.89
2/1/2021	13.91
3/1/2021	13.93
4/1/2021	13.95
5/1/2021	13.96
6/1/2021	13.98
7/1/2021	13.98
8/1/2021	13.98
9/1/2021	14.54
10/1/2021	14.28
11/1/2021	14.05
12/1/2021	14.07
1/1/2022	14.22
2/1/2022	14.24
3/1/2022	14.25
4/1/2022	14.25
5/1/2022	14.26
6/1/2022	14.27
7/1/2022	14.26
8/1/2022	14.25
9/1/2022	14.61
10/1/2022	14.41
11/1/2022	14.26
12/1/2022	14.26
1/1/2023	14.49
2/1/2023	14.49
3/1/2023	14.49

ANNUAL AVERAGE

		Crystal River
2019	2019	14.16
2019	2020	14.29
2019	2021	14.04
2019	2022	14.30
2019	2023	14.48
2019	2024	14.76
2019	2025	15.12
2019	2026	15.70
2019	2027	16.35
2019	2028	17.11
2019	2029	17.80
2019	2030	18.24
2020	2031	18.65
2020	2032	19.07
2020	2033	19.50
2020	2034	19.95
2020	2035	20.40
2020	2036	20.86
2020	2037	21.34
2020	2038	21.74
2020	2039	22.13
2020	2040	22.28
2020	2041	22.85
2020	2042	23.44
2021	2043	23.64
2021	2044	24.24
2021	2045	24.44
2021	2046	25.06
2021	2047	25.68
2021	2048	25.88
2021	2049	26.52
2021	2050	26.53
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4/1/2023	13.75	13.96	36%	13.82	0.669	4/1/2023	14.49	2023
5/1/2023	13.75	13.98	32%	13.82	0.669	5/1/2023	14.49	2023
6/1/2023	13.75	13.99	28%	13.82	0.669	6/1/2023	14.49	2023
7/1/2023	13.75	13.93	24%	13.79	0.669	7/1/2023	14.46	2023
8/1/2023	13.75	13.93	20%	13.79	0.669	8/1/2023	14.46	2023
9/1/2023	13.75	14.51	16%	13.87	0.669	9/1/2023	14.54	2023
10/1/2023	13.75	14.24	12%	13.81	0.669	10/1/2023	14.48	2023
11/1/2023	13.75	14.00	8%	13.77	0.669	11/1/2023	14.44	2023
12/1/2023	13.75	14.03	4%	13.76	0.669	12/1/2023	14.43	2023
1/1/2024	14.08	14.18	0%	14.08	0.679	1/1/2024	14.76	2024
2/1/2024	14.08	14.20	0%	14.08	0.679	2/1/2024	14.76	2024
3/1/2024	14.08	14.22	0%	14.08	0.679	3/1/2024	14.76	2024
4/1/2024	14.08	14.24	0%	14.08	0.679	4/1/2024	14.76	2024
5/1/2024	14.08	14.26	0%	14.08	0.679	5/1/2024	14.76	2024
6/1/2024	14.08	14.27	0%	14.08	0.679	6/1/2024	14.76	2024
7/1/2024	14.08	14.21	0%	14.08	0.679	7/1/2024	14.76	2024
8/1/2024	14.08	14.21	0%	14.08	0.679	8/1/2024	14.76	2024
9/1/2024	14.08	14.80	0%	14.08	0.679	9/1/2024	14.76	2024
10/1/2024	14.08	14.53	0%	14.08	0.679	10/1/2024	14.76	2024
11/1/2024	14.08	14.28	0%	14.08	0.679	11/1/2024	14.76	2024
12/1/2024	14.08	14.31	0%	14.08	0.679	12/1/2024	14.76	2024
1/1/2025	14.43	14.47	0%	14.43	0.689	1/1/2025	15.12	2025
2/1/2025	14.43	14.48	0%	14.43	0.689	2/1/2025	15.12	2025
3/1/2025	14.43	14.50	0%	14.43	0.689	3/1/2025	15.12	2025
4/1/2025	14.43	14.52	0%	14.43	0.689	4/1/2025	15.12	2025
5/1/2025	14.43	14.54	0%	14.43	0.689	5/1/2025	15.12	2025
6/1/2025	14.43	14.56	0%	14.43	0.689	6/1/2025	15.12	2025
7/1/2025	14.43	14.50	0%	14.43	0.689	7/1/2025	15.12	2025
8/1/2025	14.43	14.50	0%	14.43	0.689	8/1/2025	15.12	2025
9/1/2025	14.43	15.10	0%	14.43	0.689	9/1/2025	15.12	2025
10/1/2025	14.43	14.82	0%	14.43	0.689	10/1/2025	15.12	2025
11/1/2025	14.43	14.57	0%	14.43	0.689	11/1/2025	15.12	2025
12/1/2025	14.43	14.60	0%	14.43	0.689	12/1/2025	15.12	2025
1/1/2026	15.00	14.75	0%	15.00	0.700	1/1/2026	15.70	2026
2/1/2026	15.00	14.77	0%	15.00	0.700	2/1/2026	15.70	2026
3/1/2026	15.00	14.79	0%	15.00	0.700	3/1/2026	15.70	2026
4/1/2026	15.00	14.81	0%	15.00	0.700	4/1/2026	15.70	2026
5/1/2026	15.00	14.83	0%	15.00	0.700	5/1/2026	15.70	2026
6/1/2026	15.00	14.85	0%	15.00	0.700	6/1/2026	15.70	2026
7/1/2026	15.00	14.79	0%	15.00	0.700	7/1/2026	15.70	2026
8/1/2026	15.00	14.79	0%	15.00	0.700	8/1/2026	15.70	2026
9/1/2026	15.00	15.40	0%	15.00	0.700	9/1/2026	15.70	2026
10/1/2026	15.00	15.11	0%	15.00	0.700	10/1/2026	15.70	2026
11/1/2026	15.00	14.86	0%	15.00	0.700	11/1/2026	15.70	2026
12/1/2026	15.00	14.89	0%	15.00	0.700	12/1/2026	15.70	2026
1/1/2027	15.64	15.05	0%	15.64	0.710	1/1/2027	16.35	2027
2/1/2027	15.64	15.07	0%	15.64	0.710	2/1/2027	16.35	2027
3/1/2027	15.64	15.09	0%	15.64	0.710	3/1/2027	16.35	2027
4/1/2027	15.64	15.11	0%	15.64	0.710	4/1/2027	16.35	2027
5/1/2027	15.64	15.13	0%	15.64	0.710	5/1/2027	16.35	2027
6/1/2027	15.64	15.15	0%	15.64	0.710	6/1/2027	16.35	2027
7/1/2027	15.64	15.08	0%	15.64	0.710	7/1/2027	16.35	2027
8/1/2027	15.64	15.08	0%	15.64	0.710	8/1/2027	16.35	2027
9/1/2027	15.64	15.71	0%	15.64	0.710	9/1/2027	16.35	2027

10/1/2027	15.64	15.42	0%	15.64	0.710	10/1/2027	16.35	2027
11/1/2027	15.64	15.16	0%	15.64	0.710	11/1/2027	16.35	2027
12/1/2027	15.64	15.19	0%	15.64	0.710	12/1/2027	16.35	2027
1/1/2028	16.39	15.35	0%	16.39	0.721	1/1/2028	17.11	2028
2/1/2028	16.39	15.37	0%	16.39	0.721	2/1/2028	17.11	2028
3/1/2028	16.39	15.39	0%	16.39	0.721	3/1/2028	17.11	2028
4/1/2028	16.39	15.41	0%	16.39	0.721	4/1/2028	17.11	2028
5/1/2028	16.39	15.43	0%	16.39	0.721	5/1/2028	17.11	2028
6/1/2028	16.39	15.45	0%	16.39	0.721	6/1/2028	17.11	2028
7/1/2028	16.39	15.38	0%	16.39	0.721	7/1/2028	17.11	2028
8/1/2028	16.39	15.38	0%	16.39	0.721	8/1/2028	17.11	2028
9/1/2028	16.39	16.03	0%	16.39	0.721	9/1/2028	17.11	2028
10/1/2028	16.39	15.73	0%	16.39	0.721	10/1/2028	17.11	2028
11/1/2028	16.39	15.46	0%	16.39	0.721	11/1/2028	17.11	2028
12/1/2028	16.39	15.49	0%	16.39	0.721	12/1/2028	17.11	2028
1/1/2029	17.07	15.66	0%	17.07	0.732	1/1/2029	17.80	2029
2/1/2029	17.07	15.68	0%	17.07	0.732	2/1/2029	17.80	2029
3/1/2029	17.07	15.70	0%	17.07	0.732	3/1/2029	17.80	2029
4/1/2029	17.07	15.72	0%	17.07	0.732	4/1/2029	17.80	2029
5/1/2029	17.07	15.74	0%	17.07	0.732	5/1/2029	17.80	2029
6/1/2029	17.07	15.76	0%	17.07	0.732	6/1/2029	17.80	2029
7/1/2029	17.07	15.69	0%	17.07	0.732	7/1/2029	17.80	2029
8/1/2029	17.07	15.69	0%	17.07	0.732	8/1/2029	17.80	2029
9/1/2029	17.07	16.35	0%	17.07	0.732	9/1/2029	17.80	2029
10/1/2029	17.07	16.04	0%	17.07	0.732	10/1/2029	17.80	2029
11/1/2029	17.07	15.77	0%	17.07	0.732	11/1/2029	17.80	2029
12/1/2029	17.07	15.80	0%	17.07	0.732	12/1/2029	17.80	2029
1/1/2030	17.50	15.97	0%	17.50	0.743	1/1/2030	18.24	2030
2/1/2030	17.50	15.99	0%	17.50	0.743	2/1/2030	18.24	2030
3/1/2030	17.50	16.01	0%	17.50	0.743	3/1/2030	18.24	2030
4/1/2030	17.50	16.03	0%	17.50	0.743	4/1/2030	18.24	2030
5/1/2030	17.50	16.05	0%	17.50	0.743	5/1/2030	18.24	2030
6/1/2030	17.50	16.08	0%	17.50	0.743	6/1/2030	18.24	2030
7/1/2030	17.50	16.00	0%	17.50	0.743	7/1/2030	18.24	2030
8/1/2030	17.50	16.00	0%	17.50	0.743	8/1/2030	18.24	2030
9/1/2030	17.50	16.67	0%	17.50	0.743	9/1/2030	18.24	2030
10/1/2030	17.50	16.36	0%	17.50	0.743	10/1/2030	18.24	2030
11/1/2030	17.50	16.09	0%	17.50	0.743	11/1/2030	18.24	2030
12/1/2030	17.50	16.12	0%	17.50	0.743	12/1/2030	18.24	2030
1/1/2031	17.89	16.29	0%	17.89	0.754	1/1/2031	18.65	2031
2/1/2031	17.89	16.31	0%	17.89	0.754	2/1/2031	18.65	2031
3/1/2031	17.89	16.33	0%	17.89	0.754	3/1/2031	18.65	2031
4/1/2031	17.89	16.35	0%	17.89	0.754	4/1/2031	18.65	2031
5/1/2031	17.89	16.38	0%	17.89	0.754	5/1/2031	18.65	2031
6/1/2031	17.89	16.40	0%	17.89	0.754	6/1/2031	18.65	2031
7/1/2031	17.89	16.32	0%	17.89	0.754	7/1/2031	18.65	2031
8/1/2031	17.89	16.32	0%	17.89	0.754	8/1/2031	18.65	2031
9/1/2031	17.89	17.01	0%	17.89	0.754	9/1/2031	18.65	2031
10/1/2031	17.89	16.69	0%	17.89	0.754	10/1/2031	18.65	2031
11/1/2031	17.89	16.41	0%	17.89	0.754	11/1/2031	18.65	2031
12/1/2031	17.89	16.44	0%	17.89	0.754	12/1/2031	18.65	2031
1/1/2032	18.30	16.62	0%	18.30	0.765	1/1/2032	19.07	2032
2/1/2032	18.30	16.64	0%	18.30	0.765	2/1/2032	19.07	2032
3/1/2032	18.30	16.66	0%	18.30	0.765	3/1/2032	19.07	2032

4/1/2032	18.30	16.68	0%	18.30	0.765	4/1/2032	19.07	2032
5/1/2032	18.30	16.70	0%	18.30	0.765	5/1/2032	19.07	2032
6/1/2032	18.30	16.72	0%	18.30	0.765	6/1/2032	19.07	2032
7/1/2032	18.30	16.65	0%	18.30	0.765	7/1/2032	19.07	2032
8/1/2032	18.30	16.65	0%	18.30	0.765	8/1/2032	19.07	2032
9/1/2032	18.30	17.35	0%	18.30	0.765	9/1/2032	19.07	2032
10/1/2032	18.30	17.02	0%	18.30	0.765	10/1/2032	19.07	2032
11/1/2032	18.30	16.74	0%	18.30	0.765	11/1/2032	19.07	2032
12/1/2032	18.30	16.77	0%	18.30	0.765	12/1/2032	19.07	2032
1/1/2033	18.73	16.95	0%	18.73	0.777	1/1/2033	19.50	2033
2/1/2033	18.73	16.97	0%	18.73	0.777	2/1/2033	19.50	2033
3/1/2033	18.73	16.99	0%	18.73	0.777	3/1/2033	19.50	2033
4/1/2033	18.73	17.01	0%	18.73	0.777	4/1/2033	19.50	2033
5/1/2033	18.73	17.04	0%	18.73	0.777	5/1/2033	19.50	2033
6/1/2033	18.73	17.06	0%	18.73	0.777	6/1/2033	19.50	2033
7/1/2033	18.73	16.98	0%	18.73	0.777	7/1/2033	19.50	2033
8/1/2033	18.73	16.98	0%	18.73	0.777	8/1/2033	19.50	2033
9/1/2033	18.73	17.69	0%	18.73	0.777	9/1/2033	19.50	2033
10/1/2033	18.73	17.36	0%	18.73	0.777	10/1/2033	19.50	2033
11/1/2033	18.73	17.07	0%	18.73	0.777	11/1/2033	19.50	2033
12/1/2033	18.73	17.10	0%	18.73	0.777	12/1/2033	19.50	2033
1/1/2034	19.16	17.29	0%	19.16	0.788	1/1/2034	19.95	2034
2/1/2034	19.16	17.31	0%	19.16	0.788	2/1/2034	19.95	2034
3/1/2034	19.16	17.33	0%	19.16	0.788	3/1/2034	19.95	2034
4/1/2034	19.16	17.36	0%	19.16	0.788	4/1/2034	19.95	2034
5/1/2034	19.16	17.38	0%	19.16	0.788	5/1/2034	19.95	2034
6/1/2034	19.16	17.40	0%	19.16	0.788	6/1/2034	19.95	2034
7/1/2034	19.16	17.32	0%	19.16	0.788	7/1/2034	19.95	2034
8/1/2034	19.16	17.32	0%	19.16	0.788	8/1/2034	19.95	2034
9/1/2034	19.16	18.05	0%	19.16	0.788	9/1/2034	19.95	2034
10/1/2034	19.16	17.71	0%	19.16	0.788	10/1/2034	19.95	2034
11/1/2034	19.16	17.41	0%	19.16	0.788	11/1/2034	19.95	2034
12/1/2034	19.16	17.44	0%	19.16	0.788	12/1/2034	19.95	2034
1/1/2035	19.60	17.63	0%	19.60	0.800	1/1/2035	20.40	2035
2/1/2035	19.60	17.66	0%	19.60	0.800	2/1/2035	20.40	2035
3/1/2035	19.60	17.68	0%	19.60	0.800	3/1/2035	20.40	2035
4/1/2035	19.60	17.70	0%	19.60	0.800	4/1/2035	20.40	2035
5/1/2035	19.60	17.73	0%	19.60	0.800	5/1/2035	20.40	2035
6/1/2035	19.60	17.75	0%	19.60	0.800	6/1/2035	20.40	2035
7/1/2035	19.60	17.67	0%	19.60	0.800	7/1/2035	20.40	2035
8/1/2035	19.60	17.67	0%	19.60	0.800	8/1/2035	20.40	2035
9/1/2035	19.60	18.41	0%	19.60	0.800	9/1/2035	20.40	2035
10/1/2035	19.60	18.06	0%	19.60	0.800	10/1/2035	20.40	2035
11/1/2035	19.60	17.76	0%	19.60	0.800	11/1/2035	20.40	2035
12/1/2035	19.60	17.79	0%	19.60	0.800	12/1/2035	20.40	2035
1/1/2036	20.05	17.99	0%	20.05	0.800	1/1/2036	20.85	2036
2/1/2036	20.05	18.01	0%	20.05	0.800	2/1/2036	20.85	2036
3/1/2036	20.05	18.03	0%	20.05	0.812	3/1/2036	20.86	2036
4/1/2036	20.05	18.06	0%	20.05	0.812	4/1/2036	20.86	2036
5/1/2036	20.05	18.08	0%	20.05	0.812	5/1/2036	20.86	2036
6/1/2036	20.05	18.10	0%	20.05	0.812	6/1/2036	20.86	2036
7/1/2036	20.05	18.02	0%	20.05	0.812	7/1/2036	20.86	2036
8/1/2036	20.05	18.02	0%	20.05	0.812	8/1/2036	20.86	2036
9/1/2036	20.05	18.78	0%	20.05	0.812	9/1/2036	20.86	2036

10/1/2036	20.05	18.42	0%	20.05	0.812	10/1/2036	20.86	2036
11/1/2036	20.05	18.12	0%	20.05	0.812	11/1/2036	20.86	2036
12/1/2036	20.05	18.15	0%	20.05	0.812	12/1/2036	20.86	2036
1/1/2037	20.52	18.35	0%	20.52	0.812	1/1/2037	21.33	2037
2/1/2037	20.52	18.37	0%	20.52	0.812	2/1/2037	21.33	2037
3/1/2037	20.52	18.39	0%	20.52	0.824	3/1/2037	21.35	2037
4/1/2037	20.52	18.42	0%	20.52	0.824	4/1/2037	21.35	2037
5/1/2037	20.52	18.44	0%	20.52	0.824	5/1/2037	21.35	2037
6/1/2037	20.52	18.47	0%	20.52	0.824	6/1/2037	21.35	2037
7/1/2037	20.52	18.38	0%	20.52	0.824	7/1/2037	21.35	2037
8/1/2037	20.52	18.38	0%	20.52	0.824	8/1/2037	21.35	2037
9/1/2037	20.52	19.15	0%	20.52	0.824	9/1/2037	21.35	2037
10/1/2037	20.52	18.79	0%	20.52	0.824	10/1/2037	21.35	2037
11/1/2037	20.52	18.48	0%	20.52	0.824	11/1/2037	21.35	2037
12/1/2037	20.52	18.51	0%	20.52	0.824	12/1/2037	21.35	2037
1/1/2038	20.91	18.71	0%	20.91	0.824	1/1/2038	21.73	2038
2/1/2038	20.91	18.74	0%	20.91	0.824	2/1/2038	21.73	2038
3/1/2038	20.91	18.76	0%	20.91	0.837	3/1/2038	21.75	2038
4/1/2038	20.91	18.79	0%	20.91	0.837	4/1/2038	21.75	2038
5/1/2038	20.91	18.81	0%	20.91	0.837	5/1/2038	21.75	2038
6/1/2038	20.91	18.83	0%	20.91	0.837	6/1/2038	21.75	2038
7/1/2038	20.91	18.75	0%	20.91	0.837	7/1/2038	21.75	2038
8/1/2038	20.91	18.75	0%	20.91	0.837	8/1/2038	21.75	2038
9/1/2038	20.91	19.53	0%	20.91	0.837	9/1/2038	21.75	2038
10/1/2038	20.91	19.17	0%	20.91	0.837	10/1/2038	21.75	2038
11/1/2038	20.91	18.85	0%	20.91	0.837	11/1/2038	21.75	2038
12/1/2038	20.91	18.88	0%	20.91	0.837	12/1/2038	21.75	2038
1/1/2039	21.29	19.09	0%	21.29	0.837	1/1/2039	22.12	2039
2/1/2039	21.29	19.11	0%	21.29	0.837	2/1/2039	22.12	2039
3/1/2039	21.29	19.14	0%	21.29	0.849	3/1/2039	22.14	2039
4/1/2039	21.29	19.16	0%	21.29	0.849	4/1/2039	22.14	2039
5/1/2039	21.29	19.19	0%	21.29	0.849	5/1/2039	22.14	2039
6/1/2039	21.29	19.21	0%	21.29	0.849	6/1/2039	22.14	2039
7/1/2039	21.29	19.13	0%	21.29	0.849	7/1/2039	22.14	2039
8/1/2039	21.29	19.13	0%	21.29	0.849	8/1/2039	22.14	2039
9/1/2039	21.29	19.93	0%	21.29	0.849	9/1/2039	22.14	2039
10/1/2039	21.29	19.55	0%	21.29	0.849	10/1/2039	22.14	2039
11/1/2039	21.29	19.22	0%	21.29	0.849	11/1/2039	22.14	2039
12/1/2039	21.29	19.26	0%	21.29	0.849	12/1/2039	22.14	2039
1/1/2040	21.42	19.47	0%	21.42	0.849	1/1/2040	22.27	2040
2/1/2040	21.42	19.49	0%	21.42	0.849	2/1/2040	22.27	2040
3/1/2040	21.42	19.52	0%	21.42	0.862	3/1/2040	22.28	2040
4/1/2040	21.42	19.54	0%	21.42	0.862	4/1/2040	22.28	2040
5/1/2040	21.42	19.57	0%	21.42	0.862	5/1/2040	22.28	2040
6/1/2040	21.42	19.60	0%	21.42	0.862	6/1/2040	22.28	2040
7/1/2040	21.42	19.51	0%	21.42	0.862	7/1/2040	22.28	2040
8/1/2040	21.42	19.51	0%	21.42	0.862	8/1/2040	22.28	2040
9/1/2040	21.42	20.32	0%	21.42	0.862	9/1/2040	22.28	2040
10/1/2040	21.42	19.94	0%	21.42	0.862	10/1/2040	22.28	2040
11/1/2040	21.42	19.61	0%	21.42	0.862	11/1/2040	22.28	2040
12/1/2040	21.42	19.64	0%	21.42	0.862	12/1/2040	22.28	2040
1/1/2041	21.98	19.86	0%	21.98	0.862	1/1/2041	22.84	2041
2/1/2041	21.98	19.88	0%	21.98	0.862	2/1/2041	22.84	2041
3/1/2041	21.98	19.91	0%	21.98	0.875	3/1/2041	22.85	2041

4/1/2041	21.98	19.94	0%	21.98	0.875	4/1/2041	22.85	2041
5/1/2041	21.98	19.96	0%	21.98	0.875	5/1/2041	22.85	2041
6/1/2041	21.98	19.99	0%	21.98	0.875	6/1/2041	22.85	2041
7/1/2041	21.98	19.90	0%	21.98	0.875	7/1/2041	22.85	2041
8/1/2041	21.98	19.90	0%	21.98	0.875	8/1/2041	22.85	2041
9/1/2041	21.98	20.73	0%	21.98	0.875	9/1/2041	22.85	2041
10/1/2041	21.98	20.34	0%	21.98	0.875	10/1/2041	22.85	2041
11/1/2041	21.98	20.00	0%	21.98	0.875	11/1/2041	22.85	2041
12/1/2041	21.98	20.04	0%	21.98	0.875	12/1/2041	22.85	2041
1/1/2042	22.55	20.25	0%	22.55	0.875	1/1/2042	23.43	2042
2/1/2042	22.55	20.28	0%	22.55	0.875	2/1/2042	23.43	2042
3/1/2042	22.55	20.31	0%	22.55	0.888	3/1/2042	23.44	2042
4/1/2042	22.55	20.33	0%	22.55	0.888	4/1/2042	23.44	2042
5/1/2042	22.55	20.36	0%	22.55	0.888	5/1/2042	23.44	2042
6/1/2042	22.55	20.39	0%	22.55	0.888	6/1/2042	23.44	2042
7/1/2042	22.55	20.30	0%	22.55	0.888	7/1/2042	23.44	2042
8/1/2042	22.55	20.30	0%	22.55	0.888	8/1/2042	23.44	2042
9/1/2042	22.55	21.14	0%	22.55	0.888	9/1/2042	23.44	2042
10/1/2042	22.55	20.75	0%	22.55	0.888	10/1/2042	23.44	2042
11/1/2042	22.55	20.40	0%	22.55	0.888	11/1/2042	23.44	2042
12/1/2042	22.55	20.44	0%	22.55	0.888	12/1/2042	23.44	2042
1/1/2043	22.74	20.66	0%	22.74	0.888	1/1/2043	23.63	2043
2/1/2043	22.74	20.69	0%	22.74	0.888	2/1/2043	23.63	2043
3/1/2043	22.74	20.71	0%	22.74	0.901	3/1/2043	23.64	2043
4/1/2043	22.74	20.74	0%	22.74	0.901	4/1/2043	23.64	2043
5/1/2043	22.74	20.77	0%	22.74	0.901	5/1/2043	23.64	2043
6/1/2043	22.74	20.80	0%	22.74	0.901	6/1/2043	23.64	2043
7/1/2043	22.74	20.70	0%	22.74	0.901	7/1/2043	23.64	2043
8/1/2043	22.74	20.70	0%	22.74	0.901	8/1/2043	23.64	2043
9/1/2043	22.74	21.57	0%	22.74	0.901	9/1/2043	23.64	2043
10/1/2043	22.74	21.16	0%	22.74	0.901	10/1/2043	23.64	2043
11/1/2043	22.74	20.81	0%	22.74	0.901	11/1/2043	23.64	2043
12/1/2043	22.74	20.85	0%	22.74	0.901	12/1/2043	23.64	2043
1/1/2044	23.33	21.07	0%	23.33	0.901	1/1/2044	24.23	2044
2/1/2044	23.33	21.10	0%	23.33	0.901	2/1/2044	24.23	2044
3/1/2044	23.33	21.13	0%	23.33	0.915	3/1/2044	24.25	2044
4/1/2044	23.33	21.16	0%	23.33	0.915	4/1/2044	24.25	2044
5/1/2044	23.33	21.18	0%	23.33	0.915	5/1/2044	24.25	2044
6/1/2044	23.33	21.21	0%	23.33	0.915	6/1/2044	24.25	2044
7/1/2044	23.33	21.12	0%	23.33	0.915	7/1/2044	24.25	2044
8/1/2044	23.33	21.12	0%	23.33	0.915	8/1/2044	24.25	2044
9/1/2044	23.33	22.00	0%	23.33	0.915	9/1/2044	24.25	2044
10/1/2044	23.33	21.59	0%	23.33	0.915	10/1/2044	24.25	2044
11/1/2044	23.33	21.22	0%	23.33	0.915	11/1/2044	24.25	2044
12/1/2044	23.33	21.26	0%	23.33	0.915	12/1/2044	24.25	2044
1/1/2045	23.52	21.49	0%	23.52	0.915	1/1/2045	24.43	2045
2/1/2045	23.52	21.52	0%	23.52	0.915	2/1/2045	24.43	2045
3/1/2045	23.52	21.55	0%	23.52	0.928	3/1/2045	24.45	2045
4/1/2045	23.52	21.58	0%	23.52	0.928	4/1/2045	24.45	2045
5/1/2045	23.52	21.61	0%	23.52	0.928	5/1/2045	24.45	2045
6/1/2045	23.52	21.64	0%	23.52	0.928	6/1/2045	24.45	2045
7/1/2045	23.52	21.54	0%	23.52	0.928	7/1/2045	24.45	2045
8/1/2045	23.52	21.54	0%	23.52	0.928	8/1/2045	24.45	2045
9/1/2045	23.52	22.44	0%	23.52	0.928	9/1/2045	24.45	2045

10/1/2045	23.52	22.02	0%	23.52	0.928	10/1/2045	24.45	2045
11/1/2045	23.52	21.65	0%	23.52	0.928	11/1/2045	24.45	2045
12/1/2045	23.52	21.69	0%	23.52	0.928	12/1/2045	24.45	2045
1/1/2046	24.12	21.92	0%	24.12	0.928	1/1/2046	25.05	2046
2/1/2046	24.12	21.95	0%	24.12	0.928	2/1/2046	25.05	2046
3/1/2046	24.12	21.98	0%	24.12	0.942	3/1/2046	25.06	2046
4/1/2046	24.12	22.01	0%	24.12	0.942	4/1/2046	25.06	2046
5/1/2046	24.12	22.04	0%	24.12	0.942	5/1/2046	25.06	2046
6/1/2046	24.12	22.07	0%	24.12	0.942	6/1/2046	25.06	2046
7/1/2046	24.12	21.97	0%	24.12	0.942	7/1/2046	25.06	2046
8/1/2046	24.12	21.97	0%	24.12	0.942	8/1/2046	25.06	2046
9/1/2046	24.12	22.89	0%	24.12	0.942	9/1/2046	25.06	2046
10/1/2046	24.12	22.46	0%	24.12	0.942	10/1/2046	25.06	2046
11/1/2046	24.12	22.08	0%	24.12	0.942	11/1/2046	25.06	2046
12/1/2046	24.12	22.12	0%	24.12	0.942	12/1/2046	25.06	2046
1/1/2047	24.73	22.36	0%	24.73	0.942	1/1/2047	25.67	2047
2/1/2047	24.73	22.39	0%	24.73	0.942	2/1/2047	25.67	2047
3/1/2047	24.73	22.42	0%	24.73	0.956	3/1/2047	25.69	2047
4/1/2047	24.73	22.45	0%	24.73	0.956	4/1/2047	25.69	2047
5/1/2047	24.73	22.48	0%	24.73	0.956	5/1/2047	25.69	2047
6/1/2047	24.73	22.51	0%	24.73	0.956	6/1/2047	25.69	2047
7/1/2047	24.73	22.41	0%	24.73	0.956	7/1/2047	25.69	2047
8/1/2047	24.73	22.41	0%	24.73	0.956	8/1/2047	25.69	2047
9/1/2047	24.73	23.35	0%	24.73	0.956	9/1/2047	25.69	2047
10/1/2047	24.73	22.91	0%	24.73	0.956	10/1/2047	25.69	2047
11/1/2047	24.73	22.52	0%	24.73	0.956	11/1/2047	25.69	2047
12/1/2047	24.73	22.57	0%	24.73	0.956	12/1/2047	25.69	2047
1/1/2048	24.91	22.81	0%	24.91	0.956	1/1/2048	25.86	2048
2/1/2048	24.91	22.84	0%	24.91	0.956	2/1/2048	25.86	2048
3/1/2048	24.91	22.87	0%	24.91	0.971	3/1/2048	25.88	2048
4/1/2048	24.91	22.90	0%	24.91	0.971	4/1/2048	25.88	2048
5/1/2048	24.91	22.93	0%	24.91	0.971	5/1/2048	25.88	2048
6/1/2048	24.91	22.96	0%	24.91	0.971	6/1/2048	25.88	2048
7/1/2048	24.91	22.86	0%	24.91	0.971	7/1/2048	25.88	2048
8/1/2048	24.91	22.86	0%	24.91	0.971	8/1/2048	25.88	2048
9/1/2048	24.91	23.81	0%	24.91	0.971	9/1/2048	25.88	2048
10/1/2048	24.91	23.37	0%	24.91	0.971	10/1/2048	25.88	2048
11/1/2048	24.91	22.97	0%	24.91	0.971	11/1/2048	25.88	2048
12/1/2048	24.91	23.02	0%	24.91	0.971	12/1/2048	25.88	2048
1/1/2049	25.53	23.27	0%	25.53	0.971	1/1/2049	26.50	2049
2/1/2049	25.53	23.30	0%	25.53	0.971	2/1/2049	26.50	2049
3/1/2049	25.53	23.33	0%	25.53	0.985	3/1/2049	26.52	2049
4/1/2049	25.53	23.36	0%	25.53	0.985	4/1/2049	26.52	2049
5/1/2049	25.53	23.39	0%	25.53	0.985	5/1/2049	26.52	2049
6/1/2049	25.53	23.42	0%	25.53	0.985	6/1/2049	26.52	2049
7/1/2049	25.53	23.32	0%	25.53	0.985	7/1/2049	26.52	2049
8/1/2049	25.53	23.32	0%	25.53	0.985	8/1/2049	26.52	2049
9/1/2049	25.53	24.29	0%	25.53	0.985	9/1/2049	26.52	2049
10/1/2049	25.53	23.83	0%	25.53	0.985	10/1/2049	26.52	2049
11/1/2049	25.53	23.43	0%	25.53	0.985	11/1/2049	26.52	2049
12/1/2049	25.53	23.48	0%	25.53	0.985	12/1/2049	26.52	2049
1/1/2050	25.53	23.73	0%	25.53	0.985	1/1/2050	26.52	2050
2/1/2050	25.53	23.76	0%	25.53	0.985	2/1/2050	26.52	2050
3/1/2050	25.53	23.79	0%	25.53	1.000	3/1/2050	26.53	2050

4/1/2050	25.53	23.83	0%	25.53	1.000	4/1/2050	26.53	2050
5/1/2050	25.53	23.86	0%	25.53	1.000	5/1/2050	26.53	2050
6/1/2050	25.53	23.89	0%	25.53	1.000	6/1/2050	26.53	2050
7/1/2050	25.53	23.78	0%	25.53	1.000	7/1/2050	26.53	2050
8/1/2050	25.53	23.78	0%	25.53	1.000	8/1/2050	26.53	2050
9/1/2050	25.53	24.77	0%	25.53	1.000	9/1/2050	26.53	2050
10/1/2050	25.53	24.31	0%	25.53	1.000	10/1/2050	26.53	2050
11/1/2050	25.53	23.90	0%	25.53	1.000	11/1/2050	26.53	2050
12/1/2050	25.53	23.95	0%	25.53	1.000	12/1/2050	26.53	2050

Debary

PETROLEUM PRODUCT PRICE FORECAST DATA

Date	Petroleum Product Price Forecast - Gulf Coast	TCM	Blend TCM/ Fundamental (%)	Blend TCM/ Fundamental ($)	Debary Transport ($/MMBtu)
1/1/2019	14.62	12.93	100%	12.93	.
2/1/2019	14.62	13.87	100%	13.87	0.693
3/1/2019	14.62	13.78	100%	13.78	0.693
4/1/2019	14.62	14.33	100%	14.33	.
5/1/2019	14.62	14.29	100%	14.29	0.693
6/1/2019	14.62	13.17	100%	13.17	0.693
7/1/2019	14.62	13.86	100%	13.86	0.693
8/1/2019	14.62	13.04	100%	13.04	0.693
9/1/2019	14.62	13.58	100%	13.58	0.693
10/1/2019	14.62	13.31	100%	13.31	0.693
11/1/2019	14.62	13.08	100%	13.08	0.693
12/1/2019	14.62	13.09	100%	13.09	0.693
1/1/2020	13.66	13.80	100%	13.80	0.703
2/1/2020	13.66	14.09	100%	14.09	0.703
3/1/2020	13.66	14.60	100%	14.60	0.703
4/1/2020	13.66	14.42	100%	14.42	0.703
5/1/2020	13.66	13.11	100%	13.11	0.703
6/1/2020	13.66	13.60	100%	13.60	0.703
7/1/2020	13.66	12.98	100%	12.98	0.703
8/1/2020	13.66	13.82	100%	13.82	0.703
9/1/2020	13.66	13.64	100%	13.64	0.703
10/1/2020	13.66	13.38	100%	13.38	0.703
11/1/2020	13.66	13.16	100%	13.16	0.703
12/1/2020	13.66	13.18	100%	13.18	0.703
1/1/2021	13.38	13.24	100%	13.24	0.714
2/1/2021	13.38	13.26	100%	13.26	0.714
3/1/2021	13.38	13.28	100%	13.28	0.714
4/1/2021	13.38	13.30	100%	13.30	0.714
5/1/2021	13.38	13.31	100%	13.31	0.714
6/1/2021	13.38	13.33	100%	13.33	0.714
7/1/2021	13.38	13.33	100%	13.33	0.714
8/1/2021	13.38	13.33	100%	13.33	0.714
9/1/2021	13.38	13.89	100%	13.89	0.714
10/1/2021	13.38	13.63	100%	13.63	0.714
11/1/2021	13.38	13.40	100%	13.40	0.714
12/1/2021	13.38	13.42	100%	13.42	0.714
1/1/2022	13.44	13.57	96%	13.57	0.724
2/1/2022	13.44	13.59	92%	13.58	0.724
3/1/2022	13.44	13.61	88%	13.59	0.724
4/1/2022	13.44	13.62	84%	13.60	0.724
5/1/2022	13.44	13.64	80%	13.60	0.724
6/1/2022	13.44	13.66	76%	13.61	0.724
7/1/2022	13.44	13.66	72%	13.60	0.724
8/1/2022	13.44	13.66	68%	13.59	0.724
9/1/2022	13.44	14.23	64%	13.95	0.724
10/1/2022	13.44	13.96	60%	13.76	0.724
11/1/2022	13.44	13.73	56%	13.60	0.724
12/1/2022	13.44	13.75	52%	13.60	0.724
1/1/2023	13.75	13.90	48%	13.82	0.735
2/1/2023	13.75	13.92	44%	13.83	0.735
3/1/2023	13.75	13.94	40%	13.83	0.735
4/1/2023	13.75	13.96	36%	13.82	0.735
5/1/2023	13.75	13.98	32%	13.82	0.735
6/1/2023	13.75	13.99	28%	13.82	0.735
7/1/2023	13.75	13.93	24%	13.79	0.735
8/1/2023	13.75	13.93	20%	13.79	0.735
9/1/2023	13.75	14.51	16%	13.87	0.735
10/1/2023	13.75	14.24	12%	13.81	0.735
11/1/2023	13.75	14.00	8%	13.77	0.735
12/1/2023	13.75	14.03	4%	13.76	0.735
1/1/2024	14.08	14.18	0%	14.08	0.746
2/1/2024	14.08	14.20	0%	14.08	0.746
3/1/2024	14.08	14.22	0%	14.08	0.746
4/1/2024	14.08	14.24	0%	14.08	0.746
5/1/2024	14.08	14.26	0%	14.08	0.746

PROSYM INPUT

Date	nomianl$/MMBtu
1/1/2019	12.93
2/1/2019	14.56
3/1/2019	14.48
4/1/2019	14.33
5/1/2019	14.98
6/1/2019	13.86
7/1/2019	14.56
8/1/2019	13.74
9/1/2019	14.27
10/1/2019	14.00
11/1/2019	13.77
12/1/2019	13.78
1/1/2020	14.51
2/1/2020	14.80
3/1/2020	15.30
4/1/2020	15.13
5/1/2020	13.81
6/1/2020	14.30
7/1/2020	13.69
8/1/2020	14.52
9/1/2020	14.34
10/1/2020	14.08
11/1/2020	13.86
12/1/2020	13.88
1/1/2021	13.96
2/1/2021	13.98
3/1/2021	13.99
4/1/2021	14.01
5/1/2021	14.03
6/1/2021	14.05
7/1/2021	14.05
8/1/2021	14.05
9/1/2021	14.60
10/1/2021	14.34
11/1/2021	14.11
12/1/2021	14.14
1/1/2022	14.29
2/1/2022	14.30
3/1/2022	14.31
4/1/2022	14.32
5/1/2022	14.33
6/1/2022	14.33
7/1/2022	14.32
8/1/2022	14.31
9/1/2022	14.67
10/1/2022	14.48
11/1/2022	14.33
12/1/2022	14.33
1/1/2023	14.56
2/1/2023	14.56
3/1/2023	14.56
4/1/2023	14.56
5/1/2023	14.56
6/1/2023	14.55
7/1/2023	14.53
8/1/2023	14.52
9/1/2023	14.61
10/1/2023	14.54
11/1/2023	14.50
12/1/2023	14.50
1/1/2024	14.83
2/1/2024	14.83
3/1/2024	14.83
4/1/2024	14.83
5/1/2024	14.83

ANNUAL AVERAGE

	Debary
2019	14.10
2020	14.35
2021	14.11
2022	14.36
2023	14.55
2024	14.83
2025	15.19
2026	15.76
2027	16.42
2028	17.18
2029	17.87
2030	18.31
2031	18.72
2032	19.14
2033	19.58
2034	20.02
2035	20.48
2036	20.94
2037	21.42
2038	21.83
2039	22.22
2040	22.37
2041	22.94
2042	23.52
2043	23.73
2044	24.33
2045	24.53
2046	25.15
2047	25.78
2048	25.97
2049	26.61
2050	26.63

6/1/2024	14.08	14.27	0%	14.08	0.746	6/1/2024	14.83	2024
7/1/2024	14.08	14.21	0%	14.08	0.746	7/1/2024	14.83	2024
8/1/2024	14.08	14.21	0%	14.08	0.746	8/1/2024	14.83	2024
9/1/2024	14.08	14.80	0%	14.08	0.746	9/1/2024	14.83	2024
10/1/2024	14.08	14.53	0%	14.08	0.746	10/1/2024	14.83	2024
11/1/2024	14.08	14.28	0%	14.08	0.746	11/1/2024	14.83	2024
12/1/2024	14.08	14.31	0%	14.08	0.746	12/1/2024	14.83	2024
1/1/2025	14.43	14.47	0%	14.43	0.757	1/1/2025	15.19	2025
2/1/2025	14.43	14.48	0%	14.43	0.757	2/1/2025	15.19	2025
3/1/2025	14.43	14.50	0%	14.43	0.757	3/1/2025	15.19	2025
4/1/2025	14.43	14.52	0%	14.43	0.757	4/1/2025	15.19	2025
5/1/2025	14.43	14.54	0%	14.43	0.757	5/1/2025	15.19	2025
6/1/2025	14.43	14.56	0%	14.43	0.757	6/1/2025	15.19	2025
7/1/2025	14.43	14.50	0%	14.43	0.757	7/1/2025	15.19	2025
8/1/2025	14.43	14.50	0%	14.43	0.757	8/1/2025	15.19	2025
9/1/2025	14.43	15.10	0%	14.43	0.757	9/1/2025	15.19	2025
10/1/2025	14.43	14.82	0%	14.43	0.757	10/1/2025	15.19	2025
11/1/2025	14.43	14.57	0%	14.43	0.757	11/1/2025	15.19	2025
12/1/2025	14.43	14.60	0%	14.43	0.757	12/1/2025	15.19	2025
1/1/2026	15.00	14.75	0%	15.00	0.769	1/1/2026	15.76	2026
2/1/2026	15.00	14.77	0%	15.00	0.769	2/1/2026	15.76	2026
3/1/2026	15.00	14.79	0%	15.00	0.769	3/1/2026	15.76	2026
4/1/2026	15.00	14.81	0%	15.00	0.769	4/1/2026	15.76	2026
5/1/2026	15.00	14.83	0%	15.00	0.769	5/1/2026	15.76	2026
6/1/2026	15.00	14.85	0%	15.00	0.769	6/1/2026	15.76	2026
7/1/2026	15.00	14.79	0%	15.00	0.769	7/1/2026	15.76	2026
8/1/2026	15.00	14.79	0%	15.00	0.769	8/1/2026	15.76	2026
9/1/2026	15.00	15.40	0%	15.00	0.769	9/1/2026	15.76	2026
10/1/2026	15.00	15.11	0%	15.00	0.769	10/1/2026	15.76	2026
11/1/2026	15.00	14.86	0%	15.00	0.769	11/1/2026	15.76	2026
12/1/2026	15.00	14.89	0%	15.00	0.769	12/1/2026	15.76	2026
1/1/2027	15.64	15.05	0%	15.64	0.780	1/1/2027	16.42	2027
2/1/2027	15.64	15.07	0%	15.64	0.780	2/1/2027	16.42	2027
3/1/2027	15.64	15.09	0%	15.64	0.780	3/1/2027	16.42	2027
4/1/2027	15.64	15.11	0%	15.64	0.780	4/1/2027	16.42	2027
5/1/2027	15.64	15.13	0%	15.64	0.780	5/1/2027	16.42	2027
6/1/2027	15.64	15.15	0%	15.64	0.780	6/1/2027	16.42	2027
7/1/2027	15.64	15.08	0%	15.64	0.780	7/1/2027	16.42	2027
8/1/2027	15.64	15.08	0%	15.64	0.780	8/1/2027	16.42	2027
9/1/2027	15.64	15.71	0%	15.64	0.780	9/1/2027	16.42	2027
10/1/2027	15.64	15.42	0%	15.64	0.780	10/1/2027	16.42	2027
11/1/2027	15.64	15.16	0%	15.64	0.780	11/1/2027	16.42	2027
12/1/2027	15.64	15.19	0%	15.64	0.780	12/1/2027	16.42	2027
1/1/2028	16.39	15.35	0%	16.39	0.792	1/1/2028	17.18	2028
2/1/2028	16.39	15.37	0%	16.39	0.792	2/1/2028	17.18	2028
3/1/2028	16.39	15.39	0%	16.39	0.792	3/1/2028	17.18	2028
4/1/2028	16.39	15.41	0%	16.39	0.792	4/1/2028	17.18	2028
5/1/2028	16.39	15.43	0%	16.39	0.792	5/1/2028	17.18	2028
6/1/2028	16.39	15.45	0%	16.39	0.792	6/1/2028	17.18	2028
7/1/2028	16.39	15.38	0%	16.39	0.792	7/1/2028	17.18	2028
8/1/2028	16.39	15.38	0%	16.39	0.792	8/1/2028	17.18	2028
9/1/2028	16.39	16.03	0%	16.39	0.792	9/1/2028	17.18	2028
10/1/2028	16.39	15.73	0%	16.39	0.792	10/1/2028	17.18	2028
11/1/2028	16.39	15.46	0%	16.39	0.792	11/1/2028	17.18	2028
12/1/2028	16.39	15.49	0%	16.39	0.792	12/1/2028	17.18	2028
1/1/2029	17.07	15.66	0%	17.07	0.804	1/1/2029	17.87	2029
2/1/2029	17.07	15.68	0%	17.07	0.804	2/1/2029	17.87	2029
3/1/2029	17.07	15.70	0%	17.07	0.804	3/1/2029	17.87	2029
4/1/2029	17.07	15.72	0%	17.07	0.804	4/1/2029	17.87	2029
5/1/2029	17.07	15.74	0%	17.07	0.804	5/1/2029	17.87	2029
6/1/2029	17.07	15.76	0%	17.07	0.804	6/1/2029	17.87	2029
7/1/2029	17.07	15.69	0%	17.07	0.804	7/1/2029	17.87	2029
8/1/2029	17.07	15.69	0%	17.07	0.804	8/1/2029	17.87	2029
9/1/2029	17.07	16.35	0%	17.07	0.804	9/1/2029	17.87	2029
10/1/2029	17.07	16.04	0%	17.07	0.804	10/1/2029	17.87	2029
11/1/2029	17.07	15.77	0%	17.07	0.804	11/1/2029	17.87	2029
12/1/2029	17.07	15.80	0%	17.07	0.804	12/1/2029	17.87	2029
1/1/2030	17.50	15.97	0%	17.50	0.816	1/1/2030	18.31	2030
2/1/2030	17.50	15.99	0%	17.50	0.816	2/1/2030	18.31	2030
3/1/2030	17.50	16.01	0%	17.50	0.816	3/1/2030	18.31	2030
4/1/2030	17.50	16.03	0%	17.50	0.816	4/1/2030	18.31	2030

5/1/2030	17.50	16.05	0%	17.50	0.816	5/1/2030	18.31	2030
6/1/2030	17.50	16.08	0%	17.50	0.816	6/1/2030	18.31	2030
7/1/2030	17.50	16.00	0%	17.50	0.816	7/1/2030	18.31	2030
8/1/2030	17.50	16.00	0%	17.50	0.816	8/1/2030	18.31	2030
9/1/2030	17.50	16.67	0%	17.50	0.816	9/1/2030	18.31	2030
10/1/2030	17.50	16.36	0%	17.50	0.816	10/1/2030	18.31	2030
11/1/2030	17.50	16.09	0%	17.50	0.816	11/1/2030	18.31	2030
12/1/2030	17.50	16.12	0%	17.50	0.816	12/1/2030	18.31	2030
1/1/2031	17.89	16.29	0%	17.89	0.828	1/1/2031	18.72	2031
2/1/2031	17.89	16.31	0%	17.89	0.828	2/1/2031	18.72	2031
3/1/2031	17.89	16.33	0%	17.89	0.828	3/1/2031	18.72	2031
4/1/2031	17.89	16.35	0%	17.89	0.828	4/1/2031	18.72	2031
5/1/2031	17.89	16.38	0%	17.89	0.828	5/1/2031	18.72	2031
6/1/2031	17.89	16.40	0%	17.89	0.828	6/1/2031	18.72	2031
7/1/2031	17.89	16.32	0%	17.89	0.828	7/1/2031	18.72	2031
8/1/2031	17.89	16.32	0%	17.89	0.828	8/1/2031	18.72	2031
9/1/2031	17.89	17.01	0%	17.89	0.828	9/1/2031	18.72	2031
10/1/2031	17.89	16.69	0%	17.89	0.828	10/1/2031	18.72	2031
11/1/2031	17.89	16.41	0%	17.89	0.828	11/1/2031	18.72	2031
12/1/2031	17.89	16.44	0%	17.89	0.828	12/1/2031	18.72	2031
1/1/2032	18.30	16.62	0%	18.30	0.841	1/1/2032	19.14	2032
2/1/2032	18.30	16.64	0%	18.30	0.841	2/1/2032	19.14	2032
3/1/2032	18.30	16.66	0%	18.30	0.841	3/1/2032	19.14	2032
4/1/2032	18.30	16.68	0%	18.30	0.841	4/1/2032	19.14	2032
5/1/2032	18.30	16.70	0%	18.30	0.841	5/1/2032	19.14	2032
6/1/2032	18.30	16.72	0%	18.30	0.841	6/1/2032	19.14	2032
7/1/2032	18.30	16.65	0%	18.30	0.841	7/1/2032	19.14	2032
8/1/2032	18.30	16.65	0%	18.30	0.841	8/1/2032	19.14	2032
9/1/2032	18.30	17.35	0%	18.30	0.841	9/1/2032	19.14	2032
10/1/2032	18.30	17.02	0%	18.30	0.841	10/1/2032	19.14	2032
11/1/2032	18.30	16.74	0%	18.30	0.841	11/1/2032	19.14	2032
12/1/2032	18.30	16.77	0%	18.30	0.841	12/1/2032	19.14	2032
1/1/2033	18.73	16.95	0%	18.73	0.853	1/1/2033	19.58	2033
2/1/2033	18.73	16.97	0%	18.73	0.853	2/1/2033	19.58	2033
3/1/2033	18.73	16.99	0%	18.73	0.853	3/1/2033	19.58	2033
4/1/2033	18.73	17.01	0%	18.73	0.853	4/1/2033	19.58	2033
5/1/2033	18.73	17.04	0%	18.73	0.853	5/1/2033	19.58	2033
6/1/2033	18.73	17.06	0%	18.73	0.853	6/1/2033	19.58	2033
7/1/2033	18.73	16.98	0%	18.73	0.853	7/1/2033	19.58	2033
8/1/2033	18.73	16.98	0%	18.73	0.853	8/1/2033	19.58	2033
9/1/2033	18.73	17.69	0%	18.73	0.853	9/1/2033	19.58	2033
10/1/2033	18.73	17.36	0%	18.73	0.853	10/1/2033	19.58	2033
11/1/2033	18.73	17.07	0%	18.73	0.853	11/1/2033	19.58	2033
12/1/2033	18.73	17.10	0%	18.73	0.853	12/1/2033	19.58	2033
1/1/2034	19.16	17.29	0%	19.16	0.866	1/1/2034	20.02	2034
2/1/2034	19.16	17.31	0%	19.16	0.866	2/1/2034	20.02	2034
3/1/2034	19.16	17.33	0%	19.16	0.866	3/1/2034	20.02	2034
4/1/2034	19.16	17.36	0%	19.16	0.866	4/1/2034	20.02	2034
5/1/2034	19.16	17.38	0%	19.16	0.866	5/1/2034	20.02	2034
6/1/2034	19.16	17.40	0%	19.16	0.866	6/1/2034	20.02	2034
7/1/2034	19.16	17.32	0%	19.16	0.866	7/1/2034	20.02	2034
8/1/2034	19.16	17.32	0%	19.16	0.866	8/1/2034	20.02	2034
9/1/2034	19.16	18.05	0%	19.16	0.866	9/1/2034	20.02	2034
10/1/2034	19.16	17.71	0%	19.16	0.866	10/1/2034	20.02	2034
11/1/2034	19.16	17.41	0%	19.16	0.866	11/1/2034	20.02	2034
12/1/2034	19.16	17.44	0%	19.16	0.866	12/1/2034	20.02	2034
1/1/2035	19.60	17.63	0%	19.60	0.879	1/1/2035	20.48	2035
2/1/2035	19.60	17.66	0%	19.60	0.879	2/1/2035	20.48	2035
3/1/2035	19.60	17.68	0%	19.60	0.879	3/1/2035	20.48	2035
4/1/2035	19.60	17.70	0%	19.60	0.879	4/1/2035	20.48	2035
5/1/2035	19.60	17.73	0%	19.60	0.879	5/1/2035	20.48	2035
6/1/2035	19.60	17.75	0%	19.60	0.879	6/1/2035	20.48	2035
7/1/2035	19.60	17.67	0%	19.60	0.879	7/1/2035	20.48	2035
8/1/2035	19.60	17.67	0%	19.60	0.879	8/1/2035	20.48	2035
9/1/2035	19.60	18.41	0%	19.60	0.879	9/1/2035	20.48	2035
10/1/2035	19.60	18.06	0%	19.60	0.879	10/1/2035	20.48	2035
11/1/2035	19.60	17.76	0%	19.60	0.879	11/1/2035	20.48	2035
12/1/2035	19.60	17.79	0%	19.60	0.879	12/1/2035	20.48	2035
1/1/2036	20.05	17.99	0%	20.05	0.879	1/1/2036	20.93	2036
2/1/2036	20.05	18.01	0%	20.05	0.879	2/1/2036	20.93	2036
3/1/2036	20.05	18.03	0%	20.05	0.892	3/1/2036	20.94	2036

4/1/2036	20.05	18.06	0%	20.05	0.892	4/1/2036	20.94	2036
5/1/2036	20.05	18.08	0%	20.05	0.892	5/1/2036	20.94	2036
6/1/2036	20.05	18.10	0%	20.05	0.892	6/1/2036	20.94	2036
7/1/2036	20.05	18.02	0%	20.05	0.892	7/1/2036	20.94	2036
8/1/2036	20.05	18.02	0%	20.05	0.892	8/1/2036	20.94	2036
9/1/2036	20.05	18.78	0%	20.05	0.892	9/1/2036	20.94	2036
10/1/2036	20.05	18.42	0%	20.05	0.892	10/1/2036	20.94	2036
11/1/2036	20.05	18.12	0%	20.05	0.892	11/1/2036	20.94	2036
12/1/2036	20.05	18.15	0%	20.05	0.892	12/1/2036	20.94	2036
1/1/2037	20.52	18.35	0%	20.52	0.892	1/1/2037	21.41	2037
2/1/2037	20.52	18.37	0%	20.52	0.892	2/1/2037	21.41	2037
3/1/2037	20.52	18.39	0%	20.52	0.906	3/1/2037	21.43	2037
4/1/2037	20.52	18.42	0%	20.52	0.906	4/1/2037	21.43	2037
5/1/2037	20.52	18.44	0%	20.52	0.906	5/1/2037	21.43	2037
6/1/2037	20.52	18.47	0%	20.52	0.906	6/1/2037	21.43	2037
7/1/2037	20.52	18.38	0%	20.52	0.906	7/1/2037	21.43	2037
8/1/2037	20.52	18.38	0%	20.52	0.906	8/1/2037	21.43	2037
9/1/2037	20.52	19.15	0%	20.52	0.906	9/1/2037	21.43	2037
10/1/2037	20.52	18.79	0%	20.52	0.906	10/1/2037	21.43	2037
11/1/2037	20.52	18.48	0%	20.52	0.906	11/1/2037	21.43	2037
12/1/2037	20.52	18.51	0%	20.52	0.906	12/1/2037	21.43	2037
1/1/2038	20.91	18.71	0%	20.91	0.906	1/1/2038	21.81	2038
2/1/2038	20.91	18.74	0%	20.91	0.906	2/1/2038	21.81	2038
3/1/2038	20.91	18.76	0%	20.91	0.919	3/1/2038	21.83	2038
4/1/2038	20.91	18.79	0%	20.91	0.919	4/1/2038	21.83	2038
5/1/2038	20.91	18.81	0%	20.91	0.919	5/1/2038	21.83	2038
6/1/2038	20.91	18.83	0%	20.91	0.919	6/1/2038	21.83	2038
7/1/2038	20.91	18.75	0%	20.91	0.919	7/1/2038	21.83	2038
8/1/2038	20.91	18.75	0%	20.91	0.919	8/1/2038	21.83	2038
9/1/2038	20.91	19.53	0%	20.91	0.919	9/1/2038	21.83	2038
10/1/2038	20.91	19.17	0%	20.91	0.919	10/1/2038	21.83	2038
11/1/2038	20.91	18.85	0%	20.91	0.919	11/1/2038	21.83	2038
12/1/2038	20.91	18.88	0%	20.91	0.919	12/1/2038	21.83	2038
1/1/2039	21.29	19.09	0%	21.29	0.919	1/1/2039	22.21	2039
2/1/2039	21.29	19.11	0%	21.29	0.919	2/1/2039	22.21	2039
3/1/2039	21.29	19.14	0%	21.29	0.933	3/1/2039	22.22	2039
4/1/2039	21.29	19.16	0%	21.29	0.933	4/1/2039	22.22	2039
5/1/2039	21.29	19.19	0%	21.29	0.933	5/1/2039	22.22	2039
6/1/2039	21.29	19.21	0%	21.29	0.933	6/1/2039	22.22	2039
7/1/2039	21.29	19.13	0%	21.29	0.933	7/1/2039	22.22	2039
8/1/2039	21.29	19.13	0%	21.29	0.933	8/1/2039	22.22	2039
9/1/2039	21.29	19.93	0%	21.29	0.933	9/1/2039	22.22	2039
10/1/2039	21.29	19.55	0%	21.29	0.933	10/1/2039	22.22	2039
11/1/2039	21.29	19.22	0%	21.29	0.933	11/1/2039	22.22	2039
12/1/2039	21.29	19.26	0%	21.29	0.933	12/1/2039	22.22	2039
1/1/2040	21.42	19.47	0%	21.42	0.933	1/1/2040	22.35	2040
2/1/2040	21.42	19.49	0%	21.42	0.933	2/1/2040	22.35	2040
3/1/2040	21.42	19.52	0%	21.42	0.947	3/1/2040	22.37	2040
4/1/2040	21.42	19.54	0%	21.42	0.947	4/1/2040	22.37	2040
5/1/2040	21.42	19.57	0%	21.42	0.947	5/1/2040	22.37	2040
6/1/2040	21.42	19.60	0%	21.42	0.947	6/1/2040	22.37	2040
7/1/2040	21.42	19.51	0%	21.42	0.947	7/1/2040	22.37	2040
8/1/2040	21.42	19.51	0%	21.42	0.947	8/1/2040	22.37	2040
9/1/2040	21.42	20.32	0%	21.42	0.947	9/1/2040	22.37	2040
10/1/2040	21.42	19.94	0%	21.42	0.947	10/1/2040	22.37	2040
11/1/2040	21.42	19.61	0%	21.42	0.947	11/1/2040	22.37	2040
12/1/2040	21.42	19.64	0%	21.42	0.947	12/1/2040	22.37	2040
1/1/2041	21.98	19.86	0%	21.98	0.947	1/1/2041	22.92	2041
2/1/2041	21.98	19.88	0%	21.98	0.947	2/1/2041	22.92	2041
3/1/2041	21.98	19.91	0%	21.98	0.961	3/1/2041	22.94	2041
4/1/2041	21.98	19.94	0%	21.98	0.961	4/1/2041	22.94	2041
5/1/2041	21.98	19.96	0%	21.98	0.961	5/1/2041	22.94	2041
6/1/2041	21.98	19.99	0%	21.98	0.961	6/1/2041	22.94	2041
7/1/2041	21.98	19.90	0%	21.98	0.961	7/1/2041	22.94	2041
8/1/2041	21.98	19.90	0%	21.98	0.961	8/1/2041	22.94	2041
9/1/2041	21.98	20.73	0%	21.98	0.961	9/1/2041	22.94	2041
10/1/2041	21.98	20.34	0%	21.98	0.961	10/1/2041	22.94	2041
11/1/2041	21.98	20.00	0%	21.98	0.961	11/1/2041	22.94	2041
12/1/2041	21.98	20.04	0%	21.98	0.961	12/1/2041	22.94	2041
1/1/2042	22.55	20.25	0%	22.55	0.961	1/1/2042	23.51	2042
2/1/2042	22.55	20.28	0%	22.55	0.961	2/1/2042	23.51	2042

3/1/2042	22.55	20.31	0%	22.55	0.976	3/1/2042	23.53	2042
4/1/2042	22.55	20.33	0%	22.55	0.976	4/1/2042	23.53	2042
5/1/2042	22.55	20.36	0%	22.55	0.976	5/1/2042	23.53	2042
6/1/2042	22.55	20.39	0%	22.55	0.976	6/1/2042	23.53	2042
7/1/2042	22.55	20.30	0%	22.55	0.976	7/1/2042	23.53	2042
8/1/2042	22.55	20.30	0%	22.55	0.976	8/1/2042	23.53	2042
9/1/2042	22.55	21.14	0%	22.55	0.976	9/1/2042	23.53	2042
10/1/2042	22.55	20.75	0%	22.55	0.976	10/1/2042	23.53	2042
11/1/2042	22.55	20.40	0%	22.55	0.976	11/1/2042	23.53	2042
12/1/2042	22.55	20.44	0%	22.55	0.976	12/1/2042	23.53	2042
1/1/2043	22.74	20.66	0%	22.74	0.976	1/1/2043	23.71	2043
2/1/2043	22.74	20.69	0%	22.74	0.976	2/1/2043	23.71	2043
3/1/2043	22.74	20.71	0%	22.74	0.990	3/1/2043	23.73	2043
4/1/2043	22.74	20.74	0%	22.74	0.990	4/1/2043	23.73	2043
5/1/2043	22.74	20.77	0%	22.74	0.990	5/1/2043	23.73	2043
6/1/2043	22.74	20.80	0%	22.74	0.990	6/1/2043	23.73	2043
7/1/2043	22.74	20.70	0%	22.74	0.990	7/1/2043	23.73	2043
8/1/2043	22.74	20.70	0%	22.74	0.990	8/1/2043	23.73	2043
9/1/2043	22.74	21.57	0%	22.74	0.990	9/1/2043	23.73	2043
10/1/2043	22.74	21.16	0%	22.74	0.990	10/1/2043	23.73	2043
11/1/2043	22.74	20.81	0%	22.74	0.990	11/1/2043	23.73	2043
12/1/2043	22.74	20.85	0%	22.74	0.990	12/1/2043	23.73	2043
1/1/2044	23.33	21.07	0%	23.33	0.990	1/1/2044	24.32	2044
2/1/2044	23.33	21.10	0%	23.33	0.990	2/1/2044	24.32	2044
3/1/2044	23.33	21.13	0%	23.33	1.005	3/1/2044	24.34	2044
4/1/2044	23.33	21.16	0%	23.33	1.005	4/1/2044	24.34	2044
5/1/2044	23.33	21.18	0%	23.33	1.005	5/1/2044	24.34	2044
6/1/2044	23.33	21.21	0%	23.33	1.005	6/1/2044	24.34	2044
7/1/2044	23.33	21.12	0%	23.33	1.005	7/1/2044	24.34	2044
8/1/2044	23.33	21.12	0%	23.33	1.005	8/1/2044	24.34	2044
9/1/2044	23.33	22.00	0%	23.33	1.005	9/1/2044	24.34	2044
10/1/2044	23.33	21.59	0%	23.33	1.005	10/1/2044	24.34	2044
11/1/2044	23.33	21.22	0%	23.33	1.005	11/1/2044	24.34	2044
12/1/2044	23.33	21.26	0%	23.33	1.005	12/1/2044	24.34	2044
1/1/2045	23.52	21.49	0%	23.52	1.005	1/1/2045	24.52	2045
2/1/2045	23.52	21.52	0%	23.52	1.005	2/1/2045	24.52	2045
3/1/2045	23.52	21.55	0%	23.52	1.020	3/1/2045	24.54	2045
4/1/2045	23.52	21.58	0%	23.52	1.020	4/1/2045	24.54	2045
5/1/2045	23.52	21.61	0%	23.52	1.020	5/1/2045	24.54	2045
6/1/2045	23.52	21.64	0%	23.52	1.020	6/1/2045	24.54	2045
7/1/2045	23.52	21.54	0%	23.52	1.020	7/1/2045	24.54	2045
8/1/2045	23.52	21.54	0%	23.52	1.020	8/1/2045	24.54	2045
9/1/2045	23.52	22.44	0%	23.52	1.020	9/1/2045	24.54	2045
10/1/2045	23.52	22.02	0%	23.52	1.020	10/1/2045	24.54	2045
11/1/2045	23.52	21.65	0%	23.52	1.020	11/1/2045	24.54	2045
12/1/2045	23.52	21.69	0%	23.52	1.020	12/1/2045	24.54	2045
1/1/2046	24.12	21.92	0%	24.12	1.020	1/1/2046	25.14	2046
2/1/2046	24.12	21.95	0%	24.12	1.020	2/1/2046	25.14	2046
3/1/2046	24.12	21.98	0%	24.12	1.035	3/1/2046	25.15	2046
4/1/2046	24.12	22.01	0%	24.12	1.035	4/1/2046	25.15	2046
5/1/2046	24.12	22.04	0%	24.12	1.035	5/1/2046	25.15	2046
6/1/2046	24.12	22.07	0%	24.12	1.035	6/1/2046	25.15	2046
7/1/2046	24.12	21.97	0%	24.12	1.035	7/1/2046	25.15	2046
8/1/2046	24.12	21.97	0%	24.12	1.035	8/1/2046	25.15	2046
9/1/2046	24.12	22.89	0%	24.12	1.035	9/1/2046	25.15	2046
10/1/2046	24.12	22.46	0%	24.12	1.035	10/1/2046	25.15	2046
11/1/2046	24.12	22.08	0%	24.12	1.035	11/1/2046	25.15	2046
12/1/2046	24.12	22.12	0%	24.12	1.035	12/1/2046	25.15	2046
1/1/2047	24.73	22.36	0%	24.73	1.035	1/1/2047	25.76	2047
2/1/2047	24.73	22.39	0%	24.73	1.035	2/1/2047	25.76	2047
3/1/2047	24.73	22.42	0%	24.73	1.051	3/1/2047	25.78	2047
4/1/2047	24.73	22.45	0%	24.73	1.051	4/1/2047	25.78	2047
5/1/2047	24.73	22.48	0%	24.73	1.051	5/1/2047	25.78	2047
6/1/2047	24.73	22.51	0%	24.73	1.051	6/1/2047	25.78	2047
7/1/2047	24.73	22.41	0%	24.73	1.051	7/1/2047	25.78	2047
8/1/2047	24.73	22.41	0%	24.73	1.051	8/1/2047	25.78	2047
9/1/2047	24.73	23.35	0%	24.73	1.051	9/1/2047	25.78	2047
10/1/2047	24.73	22.91	0%	24.73	1.051	10/1/2047	25.78	2047
11/1/2047	24.73	22.52	0%	24.73	1.051	11/1/2047	25.78	2047
12/1/2047	24.73	22.57	0%	24.73	1.051	12/1/2047	25.78	2047
1/1/2048	24.91	22.81	0%	24.91	1.051	1/1/2048	25.96	2048

2/1/2048	24.91	22.84	0%	24.91	1.051	2/1/2048	25.96	2048
3/1/2048	24.91	22.87	0%	24.91	1.067	3/1/2048	25.97	2048
4/1/2048	24.91	22.90	0%	24.91	1.067	4/1/2048	25.97	2048
5/1/2048	24.91	22.93	0%	24.91	1.067	5/1/2048	25.97	2048
6/1/2048	24.91	22.96	0%	24.91	1.067	6/1/2048	25.97	2048
7/1/2048	24.91	22.86	0%	24.91	1.067	7/1/2048	25.97	2048
8/1/2048	24.91	22.86	0%	24.91	1.067	8/1/2048	25.97	2048
9/1/2048	24.91	23.81	0%	24.91	1.067	9/1/2048	25.97	2048
10/1/2048	24.91	23.37	0%	24.91	1.067	10/1/2048	25.97	2048
11/1/2048	24.91	22.97	0%	24.91	1.067	11/1/2048	25.97	2048
12/1/2048	24.91	23.02	0%	24.91	1.067	12/1/2048	25.97	2048
1/1/2049	25.53	23.27	0%	25.53	1.067	1/1/2049	26.60	2049
2/1/2049	25.53	23.30	0%	25.53	1.067	2/1/2049	26.60	2049
3/1/2049	25.53	23.33	0%	25.53	1.083	3/1/2049	26.62	2049
4/1/2049	25.53	23.36	0%	25.53	1.083	4/1/2049	26.62	2049
5/1/2049	25.53	23.39	0%	25.53	1.083	5/1/2049	26.62	2049
6/1/2049	25.53	23.42	0%	25.53	1.083	6/1/2049	26.62	2049
7/1/2049	25.53	23.32	0%	25.53	1.083	7/1/2049	26.62	2049
8/1/2049	25.53	23.32	0%	25.53	1.083	8/1/2049	26.62	2049
9/1/2049	25.53	24.29	0%	25.53	1.083	9/1/2049	26.62	2049
10/1/2049	25.53	23.83	0%	25.53	1.083	10/1/2049	26.62	2049
11/1/2049	25.53	23.43	0%	25.53	1.083	11/1/2049	26.62	2049
12/1/2049	25.53	23.48	0%	25.53	1.083	12/1/2049	26.62	2049
1/1/2050	25.53	23.73	0%	25.53	1.083	1/1/2050	26.62	2050
2/1/2050	25.53	23.76	0%	25.53	1.083	2/1/2050	26.62	2050
3/1/2050	25.53	23.79	0%	25.53	1.099	3/1/2050	26.63	2050
4/1/2050	25.53	23.83	0%	25.53	1.099	4/1/2050	26.63	2050
5/1/2050	25.53	23.86	0%	25.53	1.099	5/1/2050	26.63	2050
6/1/2050	25.53	23.89	0%	25.53	1.099	6/1/2050	26.63	2050
7/1/2050	25.53	23.78	0%	25.53	1.099	7/1/2050	26.63	2050
8/1/2050	25.53	23.78	0%	25.53	1.099	8/1/2050	26.63	2050
9/1/2050	25.53	24.77	0%	25.53	1.099	9/1/2050	26.63	2050
10/1/2050	25.53	24.31	0%	25.53	1.099	10/1/2050	26.63	2050
11/1/2050	25.53	23.90	0%	25.53	1.099	11/1/2050	26.63	2050
12/1/2050	25.53	23.95	0%	25.53	1.099	12/1/2050	26.63	2050

Hines

PETROLEUM PRODUCT PRICE FORECAST DATA

PROSYM INPUT

ANNUAL AVERAGE

Date	Petroleum Product Price Forecast - Gulf Coast	TCM	Blend TCM/ Fundamental (%)	Blend TCM/ Fundamental ($)	Hines Transport ($/MMBtu)	Date	nomianl$/MMBtu			Hines
1/1/2019	14.62	12.93	100%	12.93	0.505	1/1/2019	13.43	2019	2019	14.03
2/1/2019	14.62	13.87	100%	13.87	0.505	2/1/2019	14.37	2019	2020	14.16
3/1/2019	14.62	13.78	100%	13.78	0.505	3/1/2019	14.29	2019	2021	13.91
4/1/2019	14.62	14.33	100%	14.33	0.505	4/1/2019	14.83	2019	2022	14.16
5/1/2019	14.62	14.29	100%	14.29	0.505	5/1/2019	14.79	2019	2023	14.35
6/1/2019	14.62	13.17	100%	13.17	0.505	6/1/2019	13.67	2019	2024	14.63
7/1/2019	14.62	13.86	100%	13.86	0.505	7/1/2019	14.37	2019	2025	14.99
8/1/2019	14.62	13.04	100%	13.04	0.505	8/1/2019	13.55	2019	2026	15.56
9/1/2019	14.62	13.58	100%	13.58	0.505	9/1/2019	14.08	2019	2027	16.21
10/1/2019	14.62	13.31	100%	13.31	0.505	10/1/2019	13.82	2019	2028	16.97
11/1/2019	14.62	13.08	100%	13.08	0.505	11/1/2019	13.58	2019	2029	17.66
12/1/2019	14.62	13.09	100%	13.09	0.505	12/1/2019	13.59	2019	2030	18.09
1/1/2020	13.66	13.80	100%	13.80	0.513	1/1/2020	14.32	2020	2031	18.50
2/1/2020	13.66	14.09	100%	14.09	0.513	2/1/2020	14.61	2020	2032	18.91
3/1/2020	13.66	14.60	100%	14.60	0.513	3/1/2020	15.11	2020	2033	19.35
4/1/2020	13.66	14.42	100%	14.42	0.513	4/1/2020	14.94	2020	2034	19.79
5/1/2020	13.66	13.11	100%	13.11	0.513	5/1/2020	13.62	2020	2035	20.24
6/1/2020	13.66	13.60	100%	13.60	0.513	6/1/2020	14.11	2020	2036	20.70
7/1/2020	13.66	12.98	100%	12.98	0.513	7/1/2020	13.50	2020	2037	21.18
8/1/2020	13.66	13.82	100%	13.82	0.513	8/1/2020	14.33	2020	2038	21.58
9/1/2020	13.66	13.64	100%	13.64	0.513	9/1/2020	14.15	2020	2039	21.96
10/1/2020	13.66	13.38	100%	13.38	0.513	10/1/2020	13.89	2020	2040	22.11
11/1/2020	13.66	13.16	100%	13.16	0.513	11/1/2020	13.67	2020	2041	22.68
12/1/2020	13.66	13.18	100%	13.18	0.513	12/1/2020	13.69	2020	2042	23.26
1/1/2021	13.38	13.24	100%	13.24	0.520	1/1/2021	13.76	2021	2043	23.46
2/1/2021	13.38	13.26	100%	13.26	0.520	2/1/2021	13.78	2021	2044	24.06
3/1/2021	13.38	13.28	100%	13.28	0.520	3/1/2021	13.80	2021	2045	24.26
4/1/2021	13.38	13.30	100%	13.30	0.520	4/1/2021	13.82	2021	2046	24.87
5/1/2021	13.38	13.31	100%	13.31	0.520	5/1/2021	13.83	2021	2047	25.49
6/1/2021	13.38	13.33	100%	13.33	0.520	6/1/2021	13.85	2021	2048	25.68
7/1/2021	13.38	13.33	100%	13.33	0.520	7/1/2021	13.85	2021	2049	26.32
8/1/2021	13.38	13.33	100%	13.33	0.520	8/1/2021	13.85	2021	2050	26.33
9/1/2021	13.38	13.89	100%	13.89	0.520	9/1/2021	14.41	2021		
10/1/2021	13.38	13.63	100%	13.63	0.520	10/1/2021	14.15	2021		
11/1/2021	13.38	13.40	100%	13.40	0.520	11/1/2021	13.92	2021		
12/1/2021	13.38	13.42	100%	13.42	0.520	12/1/2021	13.94	2021		
1/1/2022	13.44	13.57	96%	13.57	0.528	1/1/2022	14.09	2022		
2/1/2022	13.44	13.59	92%	13.58	0.528	2/1/2022	14.10	2022		
3/1/2022	13.44	13.61	88%	13.59	0.528	3/1/2022	14.11	2022		
4/1/2022	13.44	13.62	84%	13.60	0.528	4/1/2022	14.12	2022		
5/1/2022	13.44	13.64	80%	13.60	0.528	5/1/2022	14.13	2022		
6/1/2022	13.44	13.66	76%	13.61	0.528	6/1/2022	14.14	2022		
7/1/2022	13.44	13.66	72%	13.60	0.528	7/1/2022	14.13	2022		
8/1/2022	13.44	13.66	68%	13.59	0.528	8/1/2022	14.12	2022		
9/1/2022	13.44	14.23	64%	13.95	0.528	9/1/2022	14.47	2022		
10/1/2022	13.44	13.96	60%	13.76	0.528	10/1/2022	14.28	2022		
11/1/2022	13.44	13.73	56%	13.60	0.528	11/1/2022	14.13	2022		
12/1/2022	13.44	13.75	52%	13.60	0.528	12/1/2022	14.13	2022		
1/1/2023	13.75	13.90	48%	13.82	0.536	1/1/2023	14.36	2023		
2/1/2023	13.75	13.92	44%	13.83	0.536	2/1/2023	14.36	2023		
3/1/2023	13.75	13.94	40%	13.83	0.536	3/1/2023	14.36	2023		
4/1/2023	13.75	13.96	36%	13.82	0.536	4/1/2023	14.36	2023		
5/1/2023	13.75	13.98	32%	13.82	0.536	5/1/2023	14.36	2023		
6/1/2023	13.75	13.99	28%	13.82	0.536	6/1/2023	14.35	2023		
7/1/2023	13.75	13.93	24%	13.79	0.536	7/1/2023	14.33	2023		
8/1/2023	13.75	13.93	20%	13.79	0.536	8/1/2023	14.32	2023		
9/1/2023	13.75	14.51	16%	13.87	0.536	9/1/2023	14.41	2023		
10/1/2023	13.75	14.24	12%	13.81	0.536	10/1/2023	14.34	2023		
11/1/2023	13.75	14.00	8%	13.77	0.536	11/1/2023	14.31	2023		
12/1/2023	13.75	14.03	4%	13.76	0.536	12/1/2023	14.30	2023		
1/1/2024	14.08	14.18	0%	14.08	0.544	1/1/2024	14.63	2024		
2/1/2024	14.08	14.20	0%	14.08	0.544	2/1/2024	14.63	2024		
3/1/2024	14.08	14.22	0%	14.08	0.544	3/1/2024	14.63	2024		
4/1/2024	14.08	14.24	0%	14.08	0.544	4/1/2024	14.63	2024		
5/1/2024	14.08	14.26	0%	14.08	0.544	5/1/2024	14.63	2024		

6/1/2024	14.08	14.27	0%	14.08	0.544	6/1/2024	14.63	2024
7/1/2024	14.08	14.21	0%	14.08	0.544	7/1/2024	14.63	2024
8/1/2024	14.08	14.21	0%	14.08	0.544	8/1/2024	14.63	2024
9/1/2024	14.08	14.80	0%	14.08	0.544	9/1/2024	14.63	2024
10/1/2024	14.08	14.53	0%	14.08	0.544	10/1/2024	14.63	2024
11/1/2024	14.08	14.28	0%	14.08	0.544	11/1/2024	14.63	2024
12/1/2024	14.08	14.31	0%	14.08	0.544	12/1/2024	14.63	2024
1/1/2025	14.43	14.47	0%	14.43	0.552	1/1/2025	14.99	2025
2/1/2025	14.43	14.48	0%	14.43	0.552	2/1/2025	14.99	2025
3/1/2025	14.43	14.50	0%	14.43	0.552	3/1/2025	14.99	2025
4/1/2025	14.43	14.52	0%	14.43	0.552	4/1/2025	14.99	2025
5/1/2025	14.43	14.54	0%	14.43	0.552	5/1/2025	14.99	2025
6/1/2025	14.43	14.56	0%	14.43	0.552	6/1/2025	14.99	2025
7/1/2025	14.43	14.50	0%	14.43	0.552	7/1/2025	14.99	2025
8/1/2025	14.43	14.50	0%	14.43	0.552	8/1/2025	14.99	2025
9/1/2025	14.43	15.10	0%	14.43	0.552	9/1/2025	14.99	2025
10/1/2025	14.43	14.82	0%	14.43	0.552	10/1/2025	14.99	2025
11/1/2025	14.43	14.57	0%	14.43	0.552	11/1/2025	14.99	2025
12/1/2025	14.43	14.60	0%	14.43	0.552	12/1/2025	14.99	2025
1/1/2026	15.00	14.75	0%	15.00	0.561	1/1/2026	15.56	2026
2/1/2026	15.00	14.77	0%	15.00	0.561	2/1/2026	15.56	2026
3/1/2026	15.00	14.79	0%	15.00	0.561	3/1/2026	15.56	2026
4/1/2026	15.00	14.81	0%	15.00	0.561	4/1/2026	15.56	2026
5/1/2026	15.00	14.83	0%	15.00	0.561	5/1/2026	15.56	2026
6/1/2026	15.00	14.85	0%	15.00	0.561	6/1/2026	15.56	2026
7/1/2026	15.00	14.79	0%	15.00	0.561	7/1/2026	15.56	2026
8/1/2026	15.00	14.79	0%	15.00	0.561	8/1/2026	15.56	2026
9/1/2026	15.00	15.40	0%	15.00	0.561	9/1/2026	15.56	2026
10/1/2026	15.00	15.11	0%	15.00	0.561	10/1/2026	15.56	2026
11/1/2026	15.00	14.86	0%	15.00	0.561	11/1/2026	15.56	2026
12/1/2026	15.00	14.89	0%	15.00	0.561	12/1/2026	15.56	2026
1/1/2027	15.64	15.05	0%	15.64	0.569	1/1/2027	16.21	2027
2/1/2027	15.64	15.07	0%	15.64	0.569	2/1/2027	16.21	2027
3/1/2027	15.64	15.09	0%	15.64	0.569	3/1/2027	16.21	2027
4/1/2027	15.64	15.11	0%	15.64	0.569	4/1/2027	16.21	2027
5/1/2027	15.64	15.13	0%	15.64	0.569	5/1/2027	16.21	2027
6/1/2027	15.64	15.15	0%	15.64	0.569	6/1/2027	16.21	2027
7/1/2027	15.64	15.08	0%	15.64	0.569	7/1/2027	16.21	2027
8/1/2027	15.64	15.08	0%	15.64	0.569	8/1/2027	16.21	2027
9/1/2027	15.64	15.71	0%	15.64	0.569	9/1/2027	16.21	2027
10/1/2027	15.64	15.42	0%	15.64	0.569	10/1/2027	16.21	2027
11/1/2027	15.64	15.16	0%	15.64	0.569	11/1/2027	16.21	2027
12/1/2027	15.64	15.19	0%	15.64	0.569	12/1/2027	16.21	2027
1/1/2028	16.39	15.35	0%	16.39	0.577	1/1/2028	16.97	2028
2/1/2028	16.39	15.37	0%	16.39	0.577	2/1/2028	16.97	2028
3/1/2028	16.39	15.39	0%	16.39	0.577	3/1/2028	16.97	2028
4/1/2028	16.39	15.41	0%	16.39	0.577	4/1/2028	16.97	2028
5/1/2028	16.39	15.43	0%	16.39	0.577	5/1/2028	16.97	2028
6/1/2028	16.39	15.45	0%	16.39	0.577	6/1/2028	16.97	2028
7/1/2028	16.39	15.38	0%	16.39	0.577	7/1/2028	16.97	2028
8/1/2028	16.39	15.38	0%	16.39	0.577	8/1/2028	16.97	2028
9/1/2028	16.39	16.03	0%	16.39	0.577	9/1/2028	16.97	2028
10/1/2028	16.39	15.73	0%	16.39	0.577	10/1/2028	16.97	2028
11/1/2028	16.39	15.46	0%	16.39	0.577	11/1/2028	16.97	2028
12/1/2028	16.39	15.49	0%	16.39	0.577	12/1/2028	16.97	2028
1/1/2029	17.07	15.66	0%	17.07	0.586	1/1/2029	17.66	2029
2/1/2029	17.07	15.68	0%	17.07	0.586	2/1/2029	17.66	2029
3/1/2029	17.07	15.70	0%	17.07	0.586	3/1/2029	17.66	2029
4/1/2029	17.07	15.72	0%	17.07	0.586	4/1/2029	17.66	2029
5/1/2029	17.07	15.74	0%	17.07	0.586	5/1/2029	17.66	2029
6/1/2029	17.07	15.76	0%	17.07	0.586	6/1/2029	17.66	2029
7/1/2029	17.07	15.69	0%	17.07	0.586	7/1/2029	17.66	2029
8/1/2029	17.07	15.69	0%	17.07	0.586	8/1/2029	17.66	2029
9/1/2029	17.07	16.35	0%	17.07	0.586	9/1/2029	17.66	2029
10/1/2029	17.07	16.04	0%	17.07	0.586	10/1/2029	17.66	2029
11/1/2029	17.07	15.77	0%	17.07	0.586	11/1/2029	17.66	2029
12/1/2029	17.07	15.80	0%	17.07	0.586	12/1/2029	17.66	2029
1/1/2030	17.50	15.97	0%	17.50	0.595	1/1/2030	18.09	2030
2/1/2030	17.50	15.99	0%	17.50	0.595	2/1/2030	18.09	2030
3/1/2030	17.50	16.01	0%	17.50	0.595	3/1/2030	18.09	2030
4/1/2030	17.50	16.03	0%	17.50	0.595	4/1/2030	18.09	2030

5/1/2030	17.50	16.05	0%	17.50	0.595	5/1/2030	18.09	2030
6/1/2030	17.50	16.08	0%	17.50	0.595	6/1/2030	18.09	2030
7/1/2030	17.50	16.00	0%	17.50	0.595	7/1/2030	18.09	2030
8/1/2030	17.50	16.00	0%	17.50	0.595	8/1/2030	18.09	2030
9/1/2030	17.50	16.67	0%	17.50	0.595	9/1/2030	18.09	2030
10/1/2030	17.50	16.36	0%	17.50	0.595	10/1/2030	18.09	2030
11/1/2030	17.50	16.09	0%	17.50	0.595	11/1/2030	18.09	2030
12/1/2030	17.50	16.12	0%	17.50	0.595	12/1/2030	18.09	2030
1/1/2031	17.89	16.29	0%	17.89	0.604	1/1/2031	18.50	2031
2/1/2031	17.89	16.31	0%	17.89	0.604	2/1/2031	18.50	2031
3/1/2031	17.89	16.33	0%	17.89	0.604	3/1/2031	18.50	2031
4/1/2031	17.89	16.35	0%	17.89	0.604	4/1/2031	18.50	2031
5/1/2031	17.89	16.38	0%	17.89	0.604	5/1/2031	18.50	2031
6/1/2031	17.89	16.40	0%	17.89	0.604	6/1/2031	18.50	2031
7/1/2031	17.89	16.32	0%	17.89	0.604	7/1/2031	18.50	2031
8/1/2031	17.89	16.32	0%	17.89	0.604	8/1/2031	18.50	2031
9/1/2031	17.89	17.01	0%	17.89	0.604	9/1/2031	18.50	2031
10/1/2031	17.89	16.69	0%	17.89	0.604	10/1/2031	18.50	2031
11/1/2031	17.89	16.41	0%	17.89	0.604	11/1/2031	18.50	2031
12/1/2031	17.89	16.44	0%	17.89	0.604	12/1/2031	18.50	2031
1/1/2032	18.30	16.62	0%	18.30	0.613	1/1/2032	18.91	2032
2/1/2032	18.30	16.64	0%	18.30	0.613	2/1/2032	18.91	2032
3/1/2032	18.30	16.66	0%	18.30	0.613	3/1/2032	18.91	2032
4/1/2032	18.30	16.68	0%	18.30	0.613	4/1/2032	18.91	2032
5/1/2032	18.30	16.70	0%	18.30	0.613	5/1/2032	18.91	2032
6/1/2032	18.30	16.72	0%	18.30	0.613	6/1/2032	18.91	2032
7/1/2032	18.30	16.65	0%	18.30	0.613	7/1/2032	18.91	2032
8/1/2032	18.30	16.65	0%	18.30	0.613	8/1/2032	18.91	2032
9/1/2032	18.30	17.35	0%	18.30	0.613	9/1/2032	18.91	2032
10/1/2032	18.30	17.02	0%	18.30	0.613	10/1/2032	18.91	2032
11/1/2032	18.30	16.74	0%	18.30	0.613	11/1/2032	18.91	2032
12/1/2032	18.30	16.77	0%	18.30	0.613	12/1/2032	18.91	2032
1/1/2033	18.73	16.95	0%	18.73	0.622	1/1/2033	19.35	2033
2/1/2033	18.73	16.97	0%	18.73	0.622	2/1/2033	19.35	2033
3/1/2033	18.73	16.99	0%	18.73	0.622	3/1/2033	19.35	2033
4/1/2033	18.73	17.01	0%	18.73	0.622	4/1/2033	19.35	2033
5/1/2033	18.73	17.04	0%	18.73	0.622	5/1/2033	19.35	2033
6/1/2033	18.73	17.06	0%	18.73	0.622	6/1/2033	19.35	2033
7/1/2033	18.73	16.98	0%	18.73	0.622	7/1/2033	19.35	2033
8/1/2033	18.73	16.98	0%	18.73	0.622	8/1/2033	19.35	2033
9/1/2033	18.73	17.69	0%	18.73	0.622	9/1/2033	19.35	2033
10/1/2033	18.73	17.36	0%	18.73	0.622	10/1/2033	19.35	2033
11/1/2033	18.73	17.07	0%	18.73	0.622	11/1/2033	19.35	2033
12/1/2033	18.73	17.10	0%	18.73	0.622	12/1/2033	19.35	2033
1/1/2034	19.16	17.29	0%	19.16	0.631	1/1/2034	19.79	2034
2/1/2034	19.16	17.31	0%	19.16	0.631	2/1/2034	19.79	2034
3/1/2034	19.16	17.33	0%	19.16	0.631	3/1/2034	19.79	2034
4/1/2034	19.16	17.36	0%	19.16	0.631	4/1/2034	19.79	2034
5/1/2034	19.16	17.38	0%	19.16	0.631	5/1/2034	19.79	2034
6/1/2034	19.16	17.40	0%	19.16	0.631	6/1/2034	19.79	2034
7/1/2034	19.16	17.32	0%	19.16	0.631	7/1/2034	19.79	2034
8/1/2034	19.16	17.32	0%	19.16	0.631	8/1/2034	19.79	2034
9/1/2034	19.16	18.05	0%	19.16	0.631	9/1/2034	19.79	2034
10/1/2034	19.16	17.71	0%	19.16	0.631	10/1/2034	19.79	2034
11/1/2034	19.16	17.41	0%	19.16	0.631	11/1/2034	19.79	2034
12/1/2034	19.16	17.44	0%	19.16	0.631	12/1/2034	19.79	2034
1/1/2035	19.60	17.63	0%	19.60	0.641	1/1/2035	20.24	2035
2/1/2035	19.60	17.66	0%	19.60	0.641	2/1/2035	20.24	2035
3/1/2035	19.60	17.68	0%	19.60	0.641	3/1/2035	20.24	2035
4/1/2035	19.60	17.70	0%	19.60	0.641	4/1/2035	20.24	2035
5/1/2035	19.60	17.73	0%	19.60	0.641	5/1/2035	20.24	2035
6/1/2035	19.60	17.75	0%	19.60	0.641	6/1/2035	20.24	2035
7/1/2035	19.60	17.67	0%	19.60	0.641	7/1/2035	20.24	2035
8/1/2035	19.60	17.67	0%	19.60	0.641	8/1/2035	20.24	2035
9/1/2035	19.60	18.41	0%	19.60	0.641	9/1/2035	20.24	2035
10/1/2035	19.60	18.06	0%	19.60	0.641	10/1/2035	20.24	2035
11/1/2035	19.60	17.76	0%	19.60	0.641	11/1/2035	20.24	2035
12/1/2035	19.60	17.79	0%	19.60	0.641	12/1/2035	20.24	2035
1/1/2036	20.05	17.99	0%	20.05	0.641	1/1/2036	20.69	2036
2/1/2036	20.05	18.01	0%	20.05	0.641	2/1/2036	20.69	2036
3/1/2036	20.05	18.03	0%	20.05	0.651	3/1/2036	20.70	2036

4/1/2036	20.05	18.06	0%	20.05	0.651	4/1/2036	20.70	2036
5/1/2036	20.05	18.08	0%	20.05	0.651	5/1/2036	20.70	2036
6/1/2036	20.05	18.10	0%	20.05	0.651	6/1/2036	20.70	2036
7/1/2036	20.05	18.02	0%	20.05	0.651	7/1/2036	20.70	2036
8/1/2036	20.05	18.02	0%	20.05	0.651	8/1/2036	20.70	2036
9/1/2036	20.05	18.78	0%	20.05	0.651	9/1/2036	20.70	2036
10/1/2036	20.05	18.42	0%	20.05	0.651	10/1/2036	20.70	2036
11/1/2036	20.05	18.12	0%	20.05	0.651	11/1/2036	20.70	2036
12/1/2036	20.05	18.15	0%	20.05	0.651	12/1/2036	20.70	2036
1/1/2037	20.52	18.35	0%	20.52	0.651	1/1/2037	21.17	2037
2/1/2037	20.52	18.37	0%	20.52	0.651	2/1/2037	21.17	2037
3/1/2037	20.52	18.39	0%	20.52	0.660	3/1/2037	21.18	2037
4/1/2037	20.52	18.42	0%	20.52	0.660	4/1/2037	21.18	2037
5/1/2037	20.52	18.44	0%	20.52	0.660	5/1/2037	21.18	2037
6/1/2037	20.52	18.47	0%	20.52	0.660	6/1/2037	21.18	2037
7/1/2037	20.52	18.38	0%	20.52	0.660	7/1/2037	21.18	2037
8/1/2037	20.52	18.38	0%	20.52	0.660	8/1/2037	21.18	2037
9/1/2037	20.52	19.15	0%	20.52	0.660	9/1/2037	21.18	2037
10/1/2037	20.52	18.79	0%	20.52	0.660	10/1/2037	21.18	2037
11/1/2037	20.52	18.48	0%	20.52	0.660	11/1/2037	21.18	2037
12/1/2037	20.52	18.51	0%	20.52	0.660	12/1/2037	21.18	2037
1/1/2038	20.91	18.71	0%	20.91	0.660	1/1/2038	21.57	2038
2/1/2038	20.91	18.74	0%	20.91	0.660	2/1/2038	21.57	2038
3/1/2038	20.91	18.76	0%	20.91	0.670	3/1/2038	21.58	2038
4/1/2038	20.91	18.79	0%	20.91	0.670	4/1/2038	21.58	2038
5/1/2038	20.91	18.81	0%	20.91	0.670	5/1/2038	21.58	2038
6/1/2038	20.91	18.83	0%	20.91	0.670	6/1/2038	21.58	2038
7/1/2038	20.91	18.75	0%	20.91	0.670	7/1/2038	21.58	2038
8/1/2038	20.91	18.75	0%	20.91	0.670	8/1/2038	21.58	2038
9/1/2038	20.91	19.53	0%	20.91	0.670	9/1/2038	21.58	2038
10/1/2038	20.91	19.17	0%	20.91	0.670	10/1/2038	21.58	2038
11/1/2038	20.91	18.85	0%	20.91	0.670	11/1/2038	21.58	2038
12/1/2038	20.91	18.88	0%	20.91	0.670	12/1/2038	21.58	2038
1/1/2039	21.29	19.09	0%	21.29	0.670	1/1/2039	21.96	2039
2/1/2039	21.29	19.11	0%	21.29	0.670	2/1/2039	21.96	2039
3/1/2039	21.29	19.14	0%	21.29	0.680	3/1/2039	21.97	2039
4/1/2039	21.29	19.16	0%	21.29	0.680	4/1/2039	21.97	2039
5/1/2039	21.29	19.19	0%	21.29	0.680	5/1/2039	21.97	2039
6/1/2039	21.29	19.21	0%	21.29	0.680	6/1/2039	21.97	2039
7/1/2039	21.29	19.13	0%	21.29	0.680	7/1/2039	21.97	2039
8/1/2039	21.29	19.13	0%	21.29	0.680	8/1/2039	21.97	2039
9/1/2039	21.29	19.93	0%	21.29	0.680	9/1/2039	21.97	2039
10/1/2039	21.29	19.55	0%	21.29	0.680	10/1/2039	21.97	2039
11/1/2039	21.29	19.22	0%	21.29	0.680	11/1/2039	21.97	2039
12/1/2039	21.29	19.26	0%	21.29	0.680	12/1/2039	21.97	2039
1/1/2040	21.42	19.47	0%	21.42	0.680	1/1/2040	22.10	2040
2/1/2040	21.42	19.49	0%	21.42	0.680	2/1/2040	22.10	2040
3/1/2040	21.42	19.52	0%	21.42	0.691	3/1/2040	22.11	2040
4/1/2040	21.42	19.54	0%	21.42	0.691	4/1/2040	22.11	2040
5/1/2040	21.42	19.57	0%	21.42	0.691	5/1/2040	22.11	2040
6/1/2040	21.42	19.60	0%	21.42	0.691	6/1/2040	22.11	2040
7/1/2040	21.42	19.51	0%	21.42	0.691	7/1/2040	22.11	2040
8/1/2040	21.42	19.51	0%	21.42	0.691	8/1/2040	22.11	2040
9/1/2040	21.42	20.32	0%	21.42	0.691	9/1/2040	22.11	2040
10/1/2040	21.42	19.94	0%	21.42	0.691	10/1/2040	22.11	2040
11/1/2040	21.42	19.61	0%	21.42	0.691	11/1/2040	22.11	2040
12/1/2040	21.42	19.64	0%	21.42	0.691	12/1/2040	22.11	2040
1/1/2041	21.98	19.86	0%	21.98	0.691	1/1/2041	22.67	2041
2/1/2041	21.98	19.88	0%	21.98	0.691	2/1/2041	22.67	2041
3/1/2041	21.98	19.91	0%	21.98	0.701	3/1/2041	22.68	2041
4/1/2041	21.98	19.94	0%	21.98	0.701	4/1/2041	22.68	2041
5/1/2041	21.98	19.96	0%	21.98	0.701	5/1/2041	22.68	2041
6/1/2041	21.98	19.99	0%	21.98	0.701	6/1/2041	22.68	2041
7/1/2041	21.98	19.90	0%	21.98	0.701	7/1/2041	22.68	2041
8/1/2041	21.98	19.90	0%	21.98	0.701	8/1/2041	22.68	2041
9/1/2041	21.98	20.73	0%	21.98	0.701	9/1/2041	22.68	2041
10/1/2041	21.98	20.34	0%	21.98	0.701	10/1/2041	22.68	2041
11/1/2041	21.98	20.00	0%	21.98	0.701	11/1/2041	22.68	2041
12/1/2041	21.98	20.04	0%	21.98	0.701	12/1/2041	22.68	2041
1/1/2042	22.55	20.25	0%	22.55	0.701	1/1/2042	23.25	2042
2/1/2042	22.55	20.28	0%	22.55	0.701	2/1/2042	23.25	2042

3/1/2042	22.55	20.31	0%	22.55	0.711	3/1/2042	23.26	2042
4/1/2042	22.55	20.33	0%	22.55	0.711	4/1/2042	23.26	2042
5/1/2042	22.55	20.36	0%	22.55	0.711	5/1/2042	23.26	2042
6/1/2042	22.55	20.39	0%	22.55	0.711	6/1/2042	23.26	2042
7/1/2042	22.55	20.30	0%	22.55	0.711	7/1/2042	23.26	2042
8/1/2042	22.55	20.30	0%	22.55	0.711	8/1/2042	23.26	2042
9/1/2042	22.55	21.14	0%	22.55	0.711	9/1/2042	23.26	2042
10/1/2042	22.55	20.75	0%	22.55	0.711	10/1/2042	23.26	2042
11/1/2042	22.55	20.40	0%	22.55	0.711	11/1/2042	23.26	2042
12/1/2042	22.55	20.44	0%	22.55	0.711	12/1/2042	23.26	2042
1/1/2043	22.74	20.66	0%	22.74	0.711	1/1/2043	23.45	2043
2/1/2043	22.74	20.69	0%	22.74	0.711	2/1/2043	23.45	2043
3/1/2043	22.74	20.71	0%	22.74	0.722	3/1/2043	23.46	2043
4/1/2043	22.74	20.74	0%	22.74	0.722	4/1/2043	23.46	2043
5/1/2043	22.74	20.77	0%	22.74	0.722	5/1/2043	23.46	2043
6/1/2043	22.74	20.80	0%	22.74	0.722	6/1/2043	23.46	2043
7/1/2043	22.74	20.70	0%	22.74	0.722	7/1/2043	23.46	2043
8/1/2043	22.74	20.70	0%	22.74	0.722	8/1/2043	23.46	2043
9/1/2043	22.74	21.57	0%	22.74	0.722	9/1/2043	23.46	2043
10/1/2043	22.74	21.16	0%	22.74	0.722	10/1/2043	23.46	2043
11/1/2043	22.74	20.81	0%	22.74	0.722	11/1/2043	23.46	2043
12/1/2043	22.74	20.85	0%	22.74	0.722	12/1/2043	23.46	2043
1/1/2044	23.33	21.07	0%	23.33	0.722	1/1/2044	24.05	2044
2/1/2044	23.33	21.10	0%	23.33	0.722	2/1/2044	24.05	2044
3/1/2044	23.33	21.13	0%	23.33	0.733	3/1/2044	24.06	2044
4/1/2044	23.33	21.16	0%	23.33	0.733	4/1/2044	24.06	2044
5/1/2044	23.33	21.18	0%	23.33	0.733	5/1/2044	24.06	2044
6/1/2044	23.33	21.21	0%	23.33	0.733	6/1/2044	24.06	2044
7/1/2044	23.33	21.12	0%	23.33	0.733	7/1/2044	24.06	2044
8/1/2044	23.33	21.12	0%	23.33	0.733	8/1/2044	24.06	2044
9/1/2044	23.33	22.00	0%	23.33	0.733	9/1/2044	24.06	2044
10/1/2044	23.33	21.59	0%	23.33	0.733	10/1/2044	24.06	2044
11/1/2044	23.33	21.22	0%	23.33	0.733	11/1/2044	24.06	2044
12/1/2044	23.33	21.26	0%	23.33	0.733	12/1/2044	24.06	2044
1/1/2045	23.52	21.49	0%	23.52	0.733	1/1/2045	24.25	2045
2/1/2045	23.52	21.52	0%	23.52	0.733	2/1/2045	24.25	2045
3/1/2045	23.52	21.55	0%	23.52	0.744	3/1/2045	24.26	2045
4/1/2045	23.52	21.58	0%	23.52	0.744	4/1/2045	24.26	2045
5/1/2045	23.52	21.61	0%	23.52	0.744	5/1/2045	24.26	2045
6/1/2045	23.52	21.64	0%	23.52	0.744	6/1/2045	24.26	2045
7/1/2045	23.52	21.54	0%	23.52	0.744	7/1/2045	24.26	2045
8/1/2045	23.52	21.54	0%	23.52	0.744	8/1/2045	24.26	2045
9/1/2045	23.52	22.44	0%	23.52	0.744	9/1/2045	24.26	2045
10/1/2045	23.52	22.02	0%	23.52	0.744	10/1/2045	24.26	2045
11/1/2045	23.52	21.65	0%	23.52	0.744	11/1/2045	24.26	2045
12/1/2045	23.52	21.69	0%	23.52	0.744	12/1/2045	24.26	2045
1/1/2046	24.12	21.92	0%	24.12	0.744	1/1/2046	24.86	2046
2/1/2046	24.12	21.95	0%	24.12	0.744	2/1/2046	24.86	2046
3/1/2046	24.12	21.98	0%	24.12	0.755	3/1/2046	24.87	2046
4/1/2046	24.12	22.01	0%	24.12	0.755	4/1/2046	24.87	2046
5/1/2046	24.12	22.04	0%	24.12	0.755	5/1/2046	24.87	2046
6/1/2046	24.12	22.07	0%	24.12	0.755	6/1/2046	24.87	2046
7/1/2046	24.12	21.97	0%	24.12	0.755	7/1/2046	24.87	2046
8/1/2046	24.12	21.97	0%	24.12	0.755	8/1/2046	24.87	2046
9/1/2046	24.12	22.89	0%	24.12	0.755	9/1/2046	24.87	2046
10/1/2046	24.12	22.46	0%	24.12	0.755	10/1/2046	24.87	2046
11/1/2046	24.12	22.08	0%	24.12	0.755	11/1/2046	24.87	2046
12/1/2046	24.12	22.12	0%	24.12	0.755	12/1/2046	24.87	2046
1/1/2047	24.73	22.36	0%	24.73	0.755	1/1/2047	25.48	2047
2/1/2047	24.73	22.39	0%	24.73	0.755	2/1/2047	25.48	2047
3/1/2047	24.73	22.42	0%	24.73	0.766	3/1/2047	25.50	2047
4/1/2047	24.73	22.45	0%	24.73	0.766	4/1/2047	25.50	2047
5/1/2047	24.73	22.48	0%	24.73	0.766	5/1/2047	25.50	2047
6/1/2047	24.73	22.51	0%	24.73	0.766	6/1/2047	25.50	2047
7/1/2047	24.73	22.41	0%	24.73	0.766	7/1/2047	25.50	2047
8/1/2047	24.73	22.41	0%	24.73	0.766	8/1/2047	25.50	2047
9/1/2047	24.73	23.35	0%	24.73	0.766	9/1/2047	25.50	2047
10/1/2047	24.73	22.91	0%	24.73	0.766	10/1/2047	25.50	2047
11/1/2047	24.73	22.52	0%	24.73	0.766	11/1/2047	25.50	2047
12/1/2047	24.73	22.57	0%	24.73	0.766	12/1/2047	25.50	2047
1/1/2048	24.91	22.81	0%	24.91	0.766	1/1/2048	25.67	2048

2/1/2048	24.91	22.84	0%	24.91	0.766	2/1/2048	25.67	2048
3/1/2048	24.91	22.87	0%	24.91	0.778	3/1/2048	25.68	2048
4/1/2048	24.91	22.90	0%	24.91	0.778	4/1/2048	25.68	2048
5/1/2048	24.91	22.93	0%	24.91	0.778	5/1/2048	25.68	2048
6/1/2048	24.91	22.96	0%	24.91	0.778	6/1/2048	25.68	2048
7/1/2048	24.91	22.86	0%	24.91	0.778	7/1/2048	25.68	2048
8/1/2048	24.91	22.86	0%	24.91	0.778	8/1/2048	25.68	2048
9/1/2048	24.91	23.81	0%	24.91	0.778	9/1/2048	25.68	2048
10/1/2048	24.91	23.37	0%	24.91	0.778	10/1/2048	25.68	2048
11/1/2048	24.91	22.97	0%	24.91	0.778	11/1/2048	25.68	2048
12/1/2048	24.91	23.02	0%	24.91	0.778	12/1/2048	25.68	2048
1/1/2049	25.53	23.27	0%	25.53	0.778	1/1/2049	26.31	2049
2/1/2049	25.53	23.30	0%	25.53	0.778	2/1/2049	26.31	2049
3/1/2049	25.53	23.33	0%	25.53	0.790	3/1/2049	26.32	2049
4/1/2049	25.53	23.36	0%	25.53	0.790	4/1/2049	26.32	2049
5/1/2049	25.53	23.39	0%	25.53	0.790	5/1/2049	26.32	2049
6/1/2049	25.53	23.42	0%	25.53	0.790	6/1/2049	26.32	2049
7/1/2049	25.53	23.32	0%	25.53	0.790	7/1/2049	26.32	2049
8/1/2049	25.53	23.32	0%	25.53	0.790	8/1/2049	26.32	2049
9/1/2049	25.53	24.29	0%	25.53	0.790	9/1/2049	26.32	2049
10/1/2049	25.53	23.83	0%	25.53	0.790	10/1/2049	26.32	2049
11/1/2049	25.53	23.43	0%	25.53	0.790	11/1/2049	26.32	2049
12/1/2049	25.53	23.48	0%	25.53	0.790	12/1/2049	26.32	2049
1/1/2050	25.53	23.73	0%	25.53	0.790	1/1/2050	26.32	2050
2/1/2050	25.53	23.76	0%	25.53	0.790	2/1/2050	26.32	2050
3/1/2050	25.53	23.79	0%	25.53	0.801	3/1/2050	26.34	2050
4/1/2050	25.53	23.83	0%	25.53	0.801	4/1/2050	26.34	2050
5/1/2050	25.53	23.86	0%	25.53	0.801	5/1/2050	26.34	2050
6/1/2050	25.53	23.89	0%	25.53	0.801	6/1/2050	26.34	2050
7/1/2050	25.53	23.78	0%	25.53	0.801	7/1/2050	26.34	2050
8/1/2050	25.53	23.78	0%	25.53	0.801	8/1/2050	26.34	2050
9/1/2050	25.53	24.77	0%	25.53	0.801	9/1/2050	26.34	2050
10/1/2050	25.53	24.31	0%	25.53	0.801	10/1/2050	26.34	2050
11/1/2050	25.53	23.90	0%	25.53	0.801	11/1/2050	26.34	2050
12/1/2050	25.53	23.95	0%	25.53	0.801	12/1/2050	26.34	2050

Int.City

PETROLEUM PRODUCT PRICE FORECAST DATA

PROSYM INPUT

ANNUAL AVERAGE

Date	Petroleum Product Price Forecast - Gulf Coast	TCM	Blend TCM/ Fundamental (%)	Blend TCM/ Fundamental ($)	Int.City Transport ($/MMBtu)
1/1/2019	14.62	12.93	100%	12.93	0.478
2/1/2019	14.62	13.87	100%	13.87	0.478
3/1/2019	14.62	13.78	100%	13.78	0.478
4/1/2019	14.62	14.33	100%	14.33	0.478
5/1/2019	14.62	14.29	100%	14.29	0.478
6/1/2019	14.62	13.17	100%	13.17	0.478
7/1/2019	14.62	13.86	100%	13.86	0.478
8/1/2019	14.62	13.04	100%	13.04	0.478
9/1/2019	14.62	13.58	100%	13.58	0.478
10/1/2019	14.62	13.31	100%	13.31	0.478
11/1/2019	14.62	13.08	100%	13.08	0.478
12/1/2019	14.62	13.09	100%	13.09	0.478
1/1/2020	13.66	13.80	100%	13.80	0.485
2/1/2020	13.66	14.09	100%	14.09	0.485
3/1/2020	13.66	14.60	100%	14.60	0.485
4/1/2020	13.66	14.42	100%	14.42	0.485
5/1/2020	13.66	13.11	100%	13.11	0.485
6/1/2020	13.66	13.60	100%	13.60	0.485
7/1/2020	13.66	12.98	100%	12.98	0.485
8/1/2020	13.66	13.82	100%	13.82	0.485
9/1/2020	13.66	13.64	100%	13.64	0.485
10/1/2020	13.66	13.38	100%	13.38	0.485
11/1/2020	13.66	13.16	100%	13.16	0.485
12/1/2020	13.66	13.18	100%	13.18	0.485
1/1/2021	13.38	13.24	100%	13.24	0.492
2/1/2021	13.38	13.26	100%	13.26	0.492
3/1/2021	13.38	13.28	100%	13.28	0.492
4/1/2021	13.38	13.30	100%	13.30	0.492
5/1/2021	13.38	13.31	100%	13.31	0.492
6/1/2021	13.38	13.33	100%	13.33	0.492
7/1/2021	13.38	13.33	100%	13.33	0.492
8/1/2021	13.38	13.33	100%	13.33	0.492
9/1/2021	13.38	13.89	100%	13.89	0.492
10/1/2021	13.38	13.63	100%	13.63	0.492
11/1/2021	13.38	13.40	100%	13.40	0.492
12/1/2021	13.38	13.42	100%	13.42	0.492
1/1/2022	13.44	13.57	96%	13.57	0.499
2/1/2022	13.44	13.59	92%	13.58	0.499
3/1/2022	13.44	13.61	88%	13.59	0.499
4/1/2022	13.44	13.62	84%	13.60	0.499
5/1/2022	13.44	13.64	80%	13.60	0.499
6/1/2022	13.44	13.66	76%	13.61	0.499
7/1/2022	13.44	13.66	72%	13.60	0.499
8/1/2022	13.44	13.66	68%	13.59	0.499
9/1/2022	13.44	14.23	64%	13.95	0.499
10/1/2022	13.44	13.96	60%	13.76	0.499
11/1/2022	13.44	13.73	56%	13.60	0.499
12/1/2022	13.44	13.75	52%	13.60	0.499
1/1/2023	13.75	13.90	48%	13.82	0.507
2/1/2023	13.75	13.92	44%	13.83	0.507
3/1/2023	13.75	13.94	40%	13.83	0.507
4/1/2023	13.75	13.96	36%	13.82	0.507
5/1/2023	13.75	13.98	32%	13.82	0.507
6/1/2023	13.75	13.99	28%	13.82	0.507
7/1/2023	13.75	13.93	24%	13.79	0.507
8/1/2023	13.75	13.93	20%	13.79	0.507
9/1/2023	13.75	14.51	16%	13.87	0.507
10/1/2023	13.75	14.24	12%	13.81	0.507
11/1/2023	13.75	14.00	8%	13.77	0.507
12/1/2023	13.75	14.03	4%	13.76	0.507
1/1/2024	14.08	14.18	0%	14.08	0.514
2/1/2024	14.08	14.20	0%	14.08	0.514
3/1/2024	14.08	14.22	0%	14.08	0.514
4/1/2024	14.08	14.24	0%	14.08	0.514
5/1/2024	14.08	14.26	0%	14.08	0.514

Date	nomianl$/MMBtu
1/1/2019	13.41
2/1/2019	14.35
3/1/2019	14.26
4/1/2019	14.80
5/1/2019	14.77
6/1/2019	13.64
7/1/2019	14.34
8/1/2019	13.52
9/1/2019	14.06
10/1/2019	13.79
11/1/2019	13.55
12/1/2019	13.57
1/1/2020	14.29
2/1/2020	14.58
3/1/2020	15.08
4/1/2020	14.91
5/1/2020	13.59
6/1/2020	14.09
7/1/2020	13.47
8/1/2020	14.30
9/1/2020	14.12
10/1/2020	13.87
11/1/2020	13.64
12/1/2020	13.67
1/1/2021	13.74
2/1/2021	13.75
3/1/2021	13.77
4/1/2021	13.79
5/1/2021	13.81
6/1/2021	13.82
7/1/2021	13.82
8/1/2021	13.82
9/1/2021	14.38
10/1/2021	14.12
11/1/2021	13.89
12/1/2021	13.92
1/1/2022	14.06
2/1/2022	14.08
3/1/2022	14.09
4/1/2022	14.09
5/1/2022	14.10
6/1/2022	14.11
7/1/2022	14.10
8/1/2022	14.09
9/1/2022	14.45
10/1/2022	14.25
11/1/2022	14.10
12/1/2022	14.10
1/1/2023	14.33
2/1/2023	14.33
3/1/2023	14.33
4/1/2023	14.33
5/1/2023	14.33
6/1/2023	14.33
7/1/2023	14.30
8/1/2023	14.29
9/1/2023	14.38
10/1/2023	14.32
11/1/2023	14.28
12/1/2023	14.27
1/1/2024	14.60
2/1/2024	14.60
3/1/2024	14.60
4/1/2024	14.60
5/1/2024	14.60

			Int.City
2019	2019		14.01
2019	2020		14.13
2019	2021		13.89
2019	2022		14.14
2019	2023		14.32
2019	2024		14.60
2019	2025		14.96
2019	2026		15.53
2019	2027		16.18
2019	2028		16.93
2019	2029		17.62
2019	2030		18.06
2020	2031		18.46
2020	2032		18.88
2020	2033		19.31
2020	2034		19.75
2020	2035		20.20
2020	2036		20.66
2020	2037		21.14
2020	2038		21.54
2020	2039		21.93
2020	2040		22.07
2020	2041		22.64
2020	2042		23.22
2021	2043		23.42
2021	2044		24.02
2021	2045		24.22
2021	2046		24.83
2021	2047		25.45
2021	2048		25.64
2021	2049		26.28
2021	2050		26.29
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6/1/2024	14.08	14.27	0%	14.08	0.514	6/1/2024	14.60	2024
7/1/2024	14.08	14.21	0%	14.08	0.514	7/1/2024	14.60	2024
8/1/2024	14.08	14.21	0%	14.08	0.514	8/1/2024	14.60	2024
9/1/2024	14.08	14.80	0%	14.08	0.514	9/1/2024	14.60	2024
10/1/2024	14.08	14.53	0%	14.08	0.514	10/1/2024	14.60	2024
11/1/2024	14.08	14.28	0%	14.08	0.514	11/1/2024	14.60	2024
12/1/2024	14.08	14.31	0%	14.08	0.514	12/1/2024	14.60	2024
1/1/2025	14.43	14.47	0%	14.43	0.522	1/1/2025	14.96	2025
2/1/2025	14.43	14.48	0%	14.43	0.522	2/1/2025	14.96	2025
3/1/2025	14.43	14.50	0%	14.43	0.522	3/1/2025	14.96	2025
4/1/2025	14.43	14.52	0%	14.43	0.522	4/1/2025	14.96	2025
5/1/2025	14.43	14.54	0%	14.43	0.522	5/1/2025	14.96	2025
6/1/2025	14.43	14.56	0%	14.43	0.522	6/1/2025	14.96	2025
7/1/2025	14.43	14.50	0%	14.43	0.522	7/1/2025	14.96	2025
8/1/2025	14.43	14.50	0%	14.43	0.522	8/1/2025	14.96	2025
9/1/2025	14.43	15.10	0%	14.43	0.522	9/1/2025	14.96	2025
10/1/2025	14.43	14.82	0%	14.43	0.522	10/1/2025	14.96	2025
11/1/2025	14.43	14.57	0%	14.43	0.522	11/1/2025	14.96	2025
12/1/2025	14.43	14.60	0%	14.43	0.522	12/1/2025	14.96	2025
1/1/2026	15.00	14.75	0%	15.00	0.530	1/1/2026	15.53	2026
2/1/2026	15.00	14.77	0%	15.00	0.530	2/1/2026	15.53	2026
3/1/2026	15.00	14.79	0%	15.00	0.530	3/1/2026	15.53	2026
4/1/2026	15.00	14.81	0%	15.00	0.530	4/1/2026	15.53	2026
5/1/2026	15.00	14.83	0%	15.00	0.530	5/1/2026	15.53	2026
6/1/2026	15.00	14.85	0%	15.00	0.530	6/1/2026	15.53	2026
7/1/2026	15.00	14.79	0%	15.00	0.530	7/1/2026	15.53	2026
8/1/2026	15.00	14.79	0%	15.00	0.530	8/1/2026	15.53	2026
9/1/2026	15.00	15.40	0%	15.00	0.530	9/1/2026	15.53	2026
10/1/2026	15.00	15.11	0%	15.00	0.530	10/1/2026	15.53	2026
11/1/2026	15.00	14.86	0%	15.00	0.530	11/1/2026	15.53	2026
12/1/2026	15.00	14.89	0%	15.00	0.530	12/1/2026	15.53	2026
1/1/2027	15.64	15.05	0%	15.64	0.538	1/1/2027	16.18	2027
2/1/2027	15.64	15.07	0%	15.64	0.538	2/1/2027	16.18	2027
3/1/2027	15.64	15.09	0%	15.64	0.538	3/1/2027	16.18	2027
4/1/2027	15.64	15.11	0%	15.64	0.538	4/1/2027	16.18	2027
5/1/2027	15.64	15.13	0%	15.64	0.538	5/1/2027	16.18	2027
6/1/2027	15.64	15.15	0%	15.64	0.538	6/1/2027	16.18	2027
7/1/2027	15.64	15.08	0%	15.64	0.538	7/1/2027	16.18	2027
8/1/2027	15.64	15.08	0%	15.64	0.538	8/1/2027	16.18	2027
9/1/2027	15.64	15.71	0%	15.64	0.538	9/1/2027	16.18	2027
10/1/2027	15.64	15.42	0%	15.64	0.538	10/1/2027	16.18	2027
11/1/2027	15.64	15.16	0%	15.64	0.538	11/1/2027	16.18	2027
12/1/2027	15.64	15.19	0%	15.64	0.538	12/1/2027	16.18	2027
1/1/2028	16.39	15.35	0%	16.39	0.546	1/1/2028	16.93	2028
2/1/2028	16.39	15.37	0%	16.39	0.546	2/1/2028	16.93	2028
3/1/2028	16.39	15.39	0%	16.39	0.546	3/1/2028	16.93	2028
4/1/2028	16.39	15.41	0%	16.39	0.546	4/1/2028	16.93	2028
5/1/2028	16.39	15.43	0%	16.39	0.546	5/1/2028	16.93	2028
6/1/2028	16.39	15.45	0%	16.39	0.546	6/1/2028	16.93	2028
7/1/2028	16.39	15.38	0%	16.39	0.546	7/1/2028	16.93	2028
8/1/2028	16.39	15.38	0%	16.39	0.546	8/1/2028	16.93	2028
9/1/2028	16.39	16.03	0%	16.39	0.546	9/1/2028	16.93	2028
10/1/2028	16.39	15.73	0%	16.39	0.546	10/1/2028	16.93	2028
11/1/2028	16.39	15.46	0%	16.39	0.546	11/1/2028	16.93	2028
12/1/2028	16.39	15.49	0%	16.39	0.546	12/1/2028	16.93	2028
1/1/2029	17.07	15.66	0%	17.07	0.554	1/1/2029	17.62	2029
2/1/2029	17.07	15.68	0%	17.07	0.554	2/1/2029	17.62	2029
3/1/2029	17.07	15.70	0%	17.07	0.554	3/1/2029	17.62	2029
4/1/2029	17.07	15.72	0%	17.07	0.554	4/1/2029	17.62	2029
5/1/2029	17.07	15.74	0%	17.07	0.554	5/1/2029	17.62	2029
6/1/2029	17.07	15.76	0%	17.07	0.554	6/1/2029	17.62	2029
7/1/2029	17.07	15.69	0%	17.07	0.554	7/1/2029	17.62	2029
8/1/2029	17.07	15.69	0%	17.07	0.554	8/1/2029	17.62	2029
9/1/2029	17.07	16.35	0%	17.07	0.554	9/1/2029	17.62	2029
10/1/2029	17.07	16.04	0%	17.07	0.554	10/1/2029	17.62	2029
11/1/2029	17.07	15.77	0%	17.07	0.554	11/1/2029	17.62	2029
12/1/2029	17.07	15.80	0%	17.07	0.554	12/1/2029	17.62	2029
1/1/2030	17.50	15.97	0%	17.50	0.563	1/1/2030	18.06	2030
2/1/2030	17.50	15.99	0%	17.50	0.563	2/1/2030	18.06	2030
3/1/2030	17.50	16.01	0%	17.50	0.563	3/1/2030	18.06	2030
4/1/2030	17.50	16.03	0%	17.50	0.563	4/1/2030	18.06	2030

5/1/2030	17.50	16.05	0%	17.50	0.563	5/1/2030	18.06	2030
6/1/2030	17.50	16.08	0%	17.50	0.563	6/1/2030	18.06	2030
7/1/2030	17.50	16.00	0%	17.50	0.563	7/1/2030	18.06	2030
8/1/2030	17.50	16.00	0%	17.50	0.563	8/1/2030	18.06	2030
9/1/2030	17.50	16.67	0%	17.50	0.563	9/1/2030	18.06	2030
10/1/2030	17.50	16.36	0%	17.50	0.563	10/1/2030	18.06	2030
11/1/2030	17.50	16.09	0%	17.50	0.563	11/1/2030	18.06	2030
12/1/2030	17.50	16.12	0%	17.50	0.563	12/1/2030	18.06	2030
1/1/2031	17.89	16.29	0%	17.89	0.571	1/1/2031	18.46	2031
2/1/2031	17.89	16.31	0%	17.89	0.571	2/1/2031	18.46	2031
3/1/2031	17.89	16.33	0%	17.89	0.571	3/1/2031	18.46	2031
4/1/2031	17.89	16.35	0%	17.89	0.571	4/1/2031	18.46	2031
5/1/2031	17.89	16.38	0%	17.89	0.571	5/1/2031	18.46	2031
6/1/2031	17.89	16.40	0%	17.89	0.571	6/1/2031	18.46	2031
7/1/2031	17.89	16.32	0%	17.89	0.571	7/1/2031	18.46	2031
8/1/2031	17.89	16.32	0%	17.89	0.571	8/1/2031	18.46	2031
9/1/2031	17.89	17.01	0%	17.89	0.571	9/1/2031	18.46	2031
10/1/2031	17.89	16.69	0%	17.89	0.571	10/1/2031	18.46	2031
11/1/2031	17.89	16.41	0%	17.89	0.571	11/1/2031	18.46	2031
12/1/2031	17.89	16.44	0%	17.89	0.571	12/1/2031	18.46	2031
1/1/2032	18.30	16.62	0%	18.30	0.580	1/1/2032	18.88	2032
2/1/2032	18.30	16.64	0%	18.30	0.580	2/1/2032	18.88	2032
3/1/2032	18.30	16.66	0%	18.30	0.580	3/1/2032	18.88	2032
4/1/2032	18.30	16.68	0%	18.30	0.580	4/1/2032	18.88	2032
5/1/2032	18.30	16.70	0%	18.30	0.580	5/1/2032	18.88	2032
6/1/2032	18.30	16.72	0%	18.30	0.580	6/1/2032	18.88	2032
7/1/2032	18.30	16.65	0%	18.30	0.580	7/1/2032	18.88	2032
8/1/2032	18.30	16.65	0%	18.30	0.580	8/1/2032	18.88	2032
9/1/2032	18.30	17.35	0%	18.30	0.580	9/1/2032	18.88	2032
10/1/2032	18.30	17.02	0%	18.30	0.580	10/1/2032	18.88	2032
11/1/2032	18.30	16.74	0%	18.30	0.580	11/1/2032	18.88	2032
12/1/2032	18.30	16.77	0%	18.30	0.580	12/1/2032	18.88	2032
1/1/2033	18.73	16.95	0%	18.73	0.588	1/1/2033	19.31	2033
2/1/2033	18.73	16.97	0%	18.73	0.588	2/1/2033	19.31	2033
3/1/2033	18.73	16.99	0%	18.73	0.588	3/1/2033	19.31	2033
4/1/2033	18.73	17.01	0%	18.73	0.588	4/1/2033	19.31	2033
5/1/2033	18.73	17.04	0%	18.73	0.588	5/1/2033	19.31	2033
6/1/2033	18.73	17.06	0%	18.73	0.588	6/1/2033	19.31	2033
7/1/2033	18.73	16.98	0%	18.73	0.588	7/1/2033	19.31	2033
8/1/2033	18.73	16.98	0%	18.73	0.588	8/1/2033	19.31	2033
9/1/2033	18.73	17.69	0%	18.73	0.588	9/1/2033	19.31	2033
10/1/2033	18.73	17.36	0%	18.73	0.588	10/1/2033	19.31	2033
11/1/2033	18.73	17.07	0%	18.73	0.588	11/1/2033	19.31	2033
12/1/2033	18.73	17.10	0%	18.73	0.588	12/1/2033	19.31	2033
1/1/2034	19.16	17.29	0%	19.16	0.597	1/1/2034	19.75	2034
2/1/2034	19.16	17.31	0%	19.16	0.597	2/1/2034	19.75	2034
3/1/2034	19.16	17.33	0%	19.16	0.597	3/1/2034	19.75	2034
4/1/2034	19.16	17.36	0%	19.16	0.597	4/1/2034	19.75	2034
5/1/2034	19.16	17.38	0%	19.16	0.597	5/1/2034	19.75	2034
6/1/2034	19.16	17.40	0%	19.16	0.597	6/1/2034	19.75	2034
7/1/2034	19.16	17.32	0%	19.16	0.597	7/1/2034	19.75	2034
8/1/2034	19.16	17.32	0%	19.16	0.597	8/1/2034	19.75	2034
9/1/2034	19.16	18.05	0%	19.16	0.597	9/1/2034	19.75	2034
10/1/2034	19.16	17.71	0%	19.16	0.597	10/1/2034	19.75	2034
11/1/2034	19.16	17.41	0%	19.16	0.597	11/1/2034	19.75	2034
12/1/2034	19.16	17.44	0%	19.16	0.597	12/1/2034	19.75	2034
1/1/2035	19.60	17.63	0%	19.60	0.606	1/1/2035	20.20	2035
2/1/2035	19.60	17.66	0%	19.60	0.606	2/1/2035	20.20	2035
3/1/2035	19.60	17.68	0%	19.60	0.606	3/1/2035	20.20	2035
4/1/2035	19.60	17.70	0%	19.60	0.606	4/1/2035	20.20	2035
5/1/2035	19.60	17.73	0%	19.60	0.606	5/1/2035	20.20	2035
6/1/2035	19.60	17.75	0%	19.60	0.606	6/1/2035	20.20	2035
7/1/2035	19.60	17.67	0%	19.60	0.606	7/1/2035	20.20	2035
8/1/2035	19.60	17.67	0%	19.60	0.606	8/1/2035	20.20	2035
9/1/2035	19.60	18.41	0%	19.60	0.606	9/1/2035	20.20	2035
10/1/2035	19.60	18.06	0%	19.60	0.606	10/1/2035	20.20	2035
11/1/2035	19.60	17.76	0%	19.60	0.606	11/1/2035	20.20	2035
12/1/2035	19.60	17.79	0%	19.60	0.606	12/1/2035	20.20	2035
1/1/2036	20.05	17.99	0%	20.05	0.606	1/1/2036	20.66	2036
2/1/2036	20.05	18.01	0%	20.05	0.606	2/1/2036	20.66	2036
3/1/2036	20.05	18.03	0%	20.05	0.615	3/1/2036	20.67	2036

4/1/2036	20.05	18.06	0%	20.05	0.615	4/1/2036	20.67	2036
5/1/2036	20.05	18.08	0%	20.05	0.615	5/1/2036	20.67	2036
6/1/2036	20.05	18.10	0%	20.05	0.615	6/1/2036	20.67	2036
7/1/2036	20.05	18.02	0%	20.05	0.615	7/1/2036	20.67	2036
8/1/2036	20.05	18.02	0%	20.05	0.615	8/1/2036	20.67	2036
9/1/2036	20.05	18.78	0%	20.05	0.615	9/1/2036	20.67	2036
10/1/2036	20.05	18.42	0%	20.05	0.615	10/1/2036	20.67	2036
11/1/2036	20.05	18.12	0%	20.05	0.615	11/1/2036	20.67	2036
12/1/2036	20.05	18.15	0%	20.05	0.615	12/1/2036	20.67	2036
1/1/2037	20.52	18.35	0%	20.52	0.615	1/1/2037	21.14	2037
2/1/2037	20.52	18.37	0%	20.52	0.615	2/1/2037	21.14	2037
3/1/2037	20.52	18.39	0%	20.52	0.624	3/1/2037	21.15	2037
4/1/2037	20.52	18.42	0%	20.52	0.624	4/1/2037	21.15	2037
5/1/2037	20.52	18.44	0%	20.52	0.624	5/1/2037	21.15	2037
6/1/2037	20.52	18.47	0%	20.52	0.624	6/1/2037	21.15	2037
7/1/2037	20.52	18.38	0%	20.52	0.624	7/1/2037	21.15	2037
8/1/2037	20.52	18.38	0%	20.52	0.624	8/1/2037	21.15	2037
9/1/2037	20.52	19.15	0%	20.52	0.624	9/1/2037	21.15	2037
10/1/2037	20.52	18.79	0%	20.52	0.624	10/1/2037	21.15	2037
11/1/2037	20.52	18.48	0%	20.52	0.624	11/1/2037	21.15	2037
12/1/2037	20.52	18.51	0%	20.52	0.624	12/1/2037	21.15	2037
1/1/2038	20.91	18.71	0%	20.91	0.624	1/1/2038	21.53	2038
2/1/2038	20.91	18.74	0%	20.91	0.624	2/1/2038	21.53	2038
3/1/2038	20.91	18.76	0%	20.91	0.634	3/1/2038	21.54	2038
4/1/2038	20.91	18.79	0%	20.91	0.634	4/1/2038	21.54	2038
5/1/2038	20.91	18.81	0%	20.91	0.634	5/1/2038	21.54	2038
6/1/2038	20.91	18.83	0%	20.91	0.634	6/1/2038	21.54	2038
7/1/2038	20.91	18.75	0%	20.91	0.634	7/1/2038	21.54	2038
8/1/2038	20.91	18.75	0%	20.91	0.634	8/1/2038	21.54	2038
9/1/2038	20.91	19.53	0%	20.91	0.634	9/1/2038	21.54	2038
10/1/2038	20.91	19.17	0%	20.91	0.634	10/1/2038	21.54	2038
11/1/2038	20.91	18.85	0%	20.91	0.634	11/1/2038	21.54	2038
12/1/2038	20.91	18.88	0%	20.91	0.634	12/1/2038	21.54	2038
1/1/2039	21.29	19.09	0%	21.29	0.634	1/1/2039	21.92	2039
2/1/2039	21.29	19.11	0%	21.29	0.634	2/1/2039	21.92	2039
3/1/2039	21.29	19.14	0%	21.29	0.643	3/1/2039	21.93	2039
4/1/2039	21.29	19.16	0%	21.29	0.643	4/1/2039	21.93	2039
5/1/2039	21.29	19.19	0%	21.29	0.643	5/1/2039	21.93	2039
6/1/2039	21.29	19.21	0%	21.29	0.643	6/1/2039	21.93	2039
7/1/2039	21.29	19.13	0%	21.29	0.643	7/1/2039	21.93	2039
8/1/2039	21.29	19.13	0%	21.29	0.643	8/1/2039	21.93	2039
9/1/2039	21.29	19.93	0%	21.29	0.643	9/1/2039	21.93	2039
10/1/2039	21.29	19.55	0%	21.29	0.643	10/1/2039	21.93	2039
11/1/2039	21.29	19.22	0%	21.29	0.643	11/1/2039	21.93	2039
12/1/2039	21.29	19.26	0%	21.29	0.643	12/1/2039	21.93	2039
1/1/2040	21.42	19.47	0%	21.42	0.643	1/1/2040	22.07	2040
2/1/2040	21.42	19.49	0%	21.42	0.643	2/1/2040	22.07	2040
3/1/2040	21.42	19.52	0%	21.42	0.653	3/1/2040	22.07	2040
4/1/2040	21.42	19.54	0%	21.42	0.653	4/1/2040	22.07	2040
5/1/2040	21.42	19.57	0%	21.42	0.653	5/1/2040	22.07	2040
6/1/2040	21.42	19.60	0%	21.42	0.653	6/1/2040	22.07	2040
7/1/2040	21.42	19.51	0%	21.42	0.653	7/1/2040	22.07	2040
8/1/2040	21.42	19.51	0%	21.42	0.653	8/1/2040	22.07	2040
9/1/2040	21.42	20.32	0%	21.42	0.653	9/1/2040	22.07	2040
10/1/2040	21.42	19.94	0%	21.42	0.653	10/1/2040	22.07	2040
11/1/2040	21.42	19.61	0%	21.42	0.653	11/1/2040	22.07	2040
12/1/2040	21.42	19.64	0%	21.42	0.653	12/1/2040	22.07	2040
1/1/2041	21.98	19.86	0%	21.98	0.653	1/1/2041	22.63	2041
2/1/2041	21.98	19.88	0%	21.98	0.653	2/1/2041	22.63	2041
3/1/2041	21.98	19.91	0%	21.98	0.663	3/1/2041	22.64	2041
4/1/2041	21.98	19.94	0%	21.98	0.663	4/1/2041	22.64	2041
5/1/2041	21.98	19.96	0%	21.98	0.663	5/1/2041	22.64	2041
6/1/2041	21.98	19.99	0%	21.98	0.663	6/1/2041	22.64	2041
7/1/2041	21.98	19.90	0%	21.98	0.663	7/1/2041	22.64	2041
8/1/2041	21.98	19.90	0%	21.98	0.663	8/1/2041	22.64	2041
9/1/2041	21.98	20.73	0%	21.98	0.663	9/1/2041	22.64	2041
10/1/2041	21.98	20.34	0%	21.98	0.663	10/1/2041	22.64	2041
11/1/2041	21.98	20.00	0%	21.98	0.663	11/1/2041	22.64	2041
12/1/2041	21.98	20.04	0%	21.98	0.663	12/1/2041	22.64	2041
1/1/2042	22.55	20.25	0%	22.55	0.663	1/1/2042	23.21	2042
2/1/2042	22.55	20.28	0%	22.55	0.663	2/1/2042	23.21	2042

3/1/2042	22.55	20.31	0%	22.55	0.673	3/1/2042	23.22	2042
4/1/2042	22.55	20.33	0%	22.55	0.673	4/1/2042	23.22	2042
5/1/2042	22.55	20.36	0%	22.55	0.673	5/1/2042	23.22	2042
6/1/2042	22.55	20.39	0%	22.55	0.673	6/1/2042	23.22	2042
7/1/2042	22.55	20.30	0%	22.55	0.673	7/1/2042	23.22	2042
8/1/2042	22.55	20.30	0%	22.55	0.673	8/1/2042	23.22	2042
9/1/2042	22.55	21.14	0%	22.55	0.673	9/1/2042	23.22	2042
10/1/2042	22.55	20.75	0%	22.55	0.673	10/1/2042	23.22	2042
11/1/2042	22.55	20.40	0%	22.55	0.673	11/1/2042	23.22	2042
12/1/2042	22.55	20.44	0%	22.55	0.673	12/1/2042	23.22	2042
1/1/2043	22.74	20.66	0%	22.74	0.673	1/1/2043	23.41	2043
2/1/2043	22.74	20.69	0%	22.74	0.673	2/1/2043	23.41	2043
3/1/2043	22.74	20.71	0%	22.74	0.683	3/1/2043	23.42	2043
4/1/2043	22.74	20.74	0%	22.74	0.683	4/1/2043	23.42	2043
5/1/2043	22.74	20.77	0%	22.74	0.683	5/1/2043	23.42	2043
6/1/2043	22.74	20.80	0%	22.74	0.683	6/1/2043	23.42	2043
7/1/2043	22.74	20.70	0%	22.74	0.683	7/1/2043	23.42	2043
8/1/2043	22.74	20.70	0%	22.74	0.683	8/1/2043	23.42	2043
9/1/2043	22.74	21.57	0%	22.74	0.683	9/1/2043	23.42	2043
10/1/2043	22.74	21.16	0%	22.74	0.683	10/1/2043	23.42	2043
11/1/2043	22.74	20.81	0%	22.74	0.683	11/1/2043	23.42	2043
12/1/2043	22.74	20.85	0%	22.74	0.683	12/1/2043	23.42	2043
1/1/2044	23.33	21.07	0%	23.33	0.683	1/1/2044	24.01	2044
2/1/2044	23.33	21.10	0%	23.33	0.683	2/1/2044	24.01	2044
3/1/2044	23.33	21.13	0%	23.33	0.693	3/1/2044	24.02	2044
4/1/2044	23.33	21.16	0%	23.33	0.693	4/1/2044	24.02	2044
5/1/2044	23.33	21.18	0%	23.33	0.693	5/1/2044	24.02	2044
6/1/2044	23.33	21.21	0%	23.33	0.693	6/1/2044	24.02	2044
7/1/2044	23.33	21.12	0%	23.33	0.693	7/1/2044	24.02	2044
8/1/2044	23.33	21.12	0%	23.33	0.693	8/1/2044	24.02	2044
9/1/2044	23.33	22.00	0%	23.33	0.693	9/1/2044	24.02	2044
10/1/2044	23.33	21.59	0%	23.33	0.693	10/1/2044	24.02	2044
11/1/2044	23.33	21.22	0%	23.33	0.693	11/1/2044	24.02	2044
12/1/2044	23.33	21.26	0%	23.33	0.693	12/1/2044	24.02	2044
1/1/2045	23.52	21.49	0%	23.52	0.693	1/1/2045	24.21	2045
2/1/2045	23.52	21.52	0%	23.52	0.693	2/1/2045	24.21	2045
3/1/2045	23.52	21.55	0%	23.52	0.703	3/1/2045	24.22	2045
4/1/2045	23.52	21.58	0%	23.52	0.703	4/1/2045	24.22	2045
5/1/2045	23.52	21.61	0%	23.52	0.703	5/1/2045	24.22	2045
6/1/2045	23.52	21.64	0%	23.52	0.703	6/1/2045	24.22	2045
7/1/2045	23.52	21.54	0%	23.52	0.703	7/1/2045	24.22	2045
8/1/2045	23.52	21.54	0%	23.52	0.703	8/1/2045	24.22	2045
9/1/2045	23.52	22.44	0%	23.52	0.703	9/1/2045	24.22	2045
10/1/2045	23.52	22.02	0%	23.52	0.703	10/1/2045	24.22	2045
11/1/2045	23.52	21.65	0%	23.52	0.703	11/1/2045	24.22	2045
12/1/2045	23.52	21.69	0%	23.52	0.703	12/1/2045	24.22	2045
1/1/2046	24.12	21.92	0%	24.12	0.703	1/1/2046	24.82	2046
2/1/2046	24.12	21.95	0%	24.12	0.703	2/1/2046	24.82	2046
3/1/2046	24.12	21.98	0%	24.12	0.714	3/1/2046	24.83	2046
4/1/2046	24.12	22.01	0%	24.12	0.714	4/1/2046	24.83	2046
5/1/2046	24.12	22.04	0%	24.12	0.714	5/1/2046	24.83	2046
6/1/2046	24.12	22.07	0%	24.12	0.714	6/1/2046	24.83	2046
7/1/2046	24.12	21.97	0%	24.12	0.714	7/1/2046	24.83	2046
8/1/2046	24.12	21.97	0%	24.12	0.714	8/1/2046	24.83	2046
9/1/2046	24.12	22.89	0%	24.12	0.714	9/1/2046	24.83	2046
10/1/2046	24.12	22.46	0%	24.12	0.714	10/1/2046	24.83	2046
11/1/2046	24.12	22.08	0%	24.12	0.714	11/1/2046	24.83	2046
12/1/2046	24.12	22.12	0%	24.12	0.714	12/1/2046	24.83	2046
1/1/2047	24.73	22.36	0%	24.73	0.714	1/1/2047	25.44	2047
2/1/2047	24.73	22.39	0%	24.73	0.714	2/1/2047	25.44	2047
3/1/2047	24.73	22.42	0%	24.73	0.725	3/1/2047	25.45	2047
4/1/2047	24.73	22.45	0%	24.73	0.725	4/1/2047	25.45	2047
5/1/2047	24.73	22.48	0%	24.73	0.725	5/1/2047	25.45	2047
6/1/2047	24.73	22.51	0%	24.73	0.725	6/1/2047	25.45	2047
7/1/2047	24.73	22.41	0%	24.73	0.725	7/1/2047	25.45	2047
8/1/2047	24.73	22.41	0%	24.73	0.725	8/1/2047	25.45	2047
9/1/2047	24.73	23.35	0%	24.73	0.725	9/1/2047	25.45	2047
10/1/2047	24.73	22.91	0%	24.73	0.725	10/1/2047	25.45	2047
11/1/2047	24.73	22.52	0%	24.73	0.725	11/1/2047	25.45	2047
12/1/2047	24.73	22.57	0%	24.73	0.725	12/1/2047	25.45	2047
1/1/2048	24.91	22.81	0%	24.91	0.725	1/1/2048	25.63	2048

2/1/2048	24.91	22.84	0%	24.91	0.725	2/1/2048	25.63	2048
3/1/2048	24.91	22.87	0%	24.91	0.735	3/1/2048	25.64	2048
4/1/2048	24.91	22.90	0%	24.91	0.735	4/1/2048	25.64	2048
5/1/2048	24.91	22.93	0%	24.91	0.735	5/1/2048	25.64	2048
6/1/2048	24.91	22.96	0%	24.91	0.735	6/1/2048	25.64	2048
7/1/2048	24.91	22.86	0%	24.91	0.735	7/1/2048	25.64	2048
8/1/2048	24.91	22.86	0%	24.91	0.735	8/1/2048	25.64	2048
9/1/2048	24.91	23.81	0%	24.91	0.735	9/1/2048	25.64	2048
10/1/2048	24.91	23.37	0%	24.91	0.735	10/1/2048	25.64	2048
11/1/2048	24.91	22.97	0%	24.91	0.735	11/1/2048	25.64	2048
12/1/2048	24.91	23.02	0%	24.91	0.735	12/1/2048	25.64	2048
1/1/2049	25.53	23.27	0%	25.53	0.735	1/1/2049	26.27	2049
2/1/2049	25.53	23.30	0%	25.53	0.735	2/1/2049	26.27	2049
3/1/2049	25.53	23.33	0%	25.53	0.746	3/1/2049	26.28	2049
4/1/2049	25.53	23.36	0%	25.53	0.746	4/1/2049	26.28	2049
5/1/2049	25.53	23.39	0%	25.53	0.746	5/1/2049	26.28	2049
6/1/2049	25.53	23.42	0%	25.53	0.746	6/1/2049	26.28	2049
7/1/2049	25.53	23.32	0%	25.53	0.746	7/1/2049	26.28	2049
8/1/2049	25.53	23.32	0%	25.53	0.746	8/1/2049	26.28	2049
9/1/2049	25.53	24.29	0%	25.53	0.746	9/1/2049	26.28	2049
10/1/2049	25.53	23.83	0%	25.53	0.746	10/1/2049	26.28	2049
11/1/2049	25.53	23.43	0%	25.53	0.746	11/1/2049	26.28	2049
12/1/2049	25.53	23.48	0%	25.53	0.746	12/1/2049	26.28	2049
1/1/2050	25.53	23.73	0%	25.53	0.746	1/1/2050	26.28	2050
2/1/2050	25.53	23.76	0%	25.53	0.746	2/1/2050	26.28	2050
3/1/2050	25.53	23.79	0%	25.53	0.758	3/1/2050	26.29	2050
4/1/2050	25.53	23.83	0%	25.53	0.758	4/1/2050	26.29	2050
5/1/2050	25.53	23.86	0%	25.53	0.758	5/1/2050	26.29	2050
6/1/2050	25.53	23.89	0%	25.53	0.758	6/1/2050	26.29	2050
7/1/2050	25.53	23.78	0%	25.53	0.758	7/1/2050	26.29	2050
8/1/2050	25.53	23.78	0%	25.53	0.758	8/1/2050	26.29	2050
9/1/2050	25.53	24.77	0%	25.53	0.758	9/1/2050	26.29	2050
10/1/2050	25.53	24.31	0%	25.53	0.758	10/1/2050	26.29	2050
11/1/2050	25.53	23.90	0%	25.53	0.758	11/1/2050	26.29	2050
12/1/2050	25.53	23.95	0%	25.53	0.758	12/1/2050	26.29	2050

Shady Hills

PETROLEUM PRODUCT PRICE FORECAST DATA

Date	Petroleum Product Price Forecast - Gulf Coast	TCM	Blend TCM/ Fundamental (%)	Blend TCM/ Fundamental ($)	Shady Hills Transport ($/MMBtu)
1/1/2019	14.62	12.93	100%	12.93	0.551
2/1/2019	14.62	13.87	100%	13.87	0.551
3/1/2019	14.62	13.78	100%	13.78	0.551
4/1/2019	14.62	14.33	100%	14.33	0.551
5/1/2019	14.62	14.29	100%	14.29	0.551
6/1/2019	14.62	13.17	100%	13.17	0.551
7/1/2019	14.62	13.86	100%	13.86	0.551
8/1/2019	14.62	13.04	100%	13.04	0.551
9/1/2019	14.62	13.58	100%	13.58	0.551
10/1/2019	14.62	13.31	100%	13.31	0.551
11/1/2019	14.62	13.08	100%	13.08	0.551
12/1/2019	14.62	13.09	100%	13.09	0.551
1/1/2020	13.66	13.80	100%	13.80	0.559
2/1/2020	13.66	14.09	100%	14.09	0.559
3/1/2020	13.66	14.60	100%	14.60	0.559
4/1/2020	13.66	14.42	100%	14.42	0.559
5/1/2020	13.66	13.11	100%	13.11	0.559
6/1/2020	13.66	13.60	100%	13.60	0.559
7/1/2020	13.66	12.98	100%	12.98	0.559
8/1/2020	13.66	13.82	100%	13.82	0.559
9/1/2020	13.66	13.64	100%	13.64	0.559
10/1/2020	13.66	13.38	100%	13.38	0.559
11/1/2020	13.66	13.16	100%	13.16	0.559
12/1/2020	13.66	13.18	100%	13.18	0.559
1/1/2021	13.38	13.24	100%	13.24	0.567
2/1/2021	13.38	13.26	100%	13.26	0.567
3/1/2021	13.38	13.28	100%	13.28	0.567
4/1/2021	13.38	13.30	100%	13.30	0.567
5/1/2021	13.38	13.31	100%	13.31	0.567
6/1/2021	13.38	13.33	100%	13.33	0.567
7/1/2021	13.38	13.33	100%	13.33	0.567
8/1/2021	13.38	13.33	100%	13.33	0.567
9/1/2021	13.38	13.89	100%	13.89	0.567
10/1/2021	13.38	13.63	100%	13.63	0.567
11/1/2021	13.38	13.40	100%	13.40	0.567
12/1/2021	13.38	13.42	100%	13.42	0.567
1/1/2022	13.44	13.57	96%	13.57	0.576
2/1/2022	13.44	13.59	92%	13.58	0.576
3/1/2022	13.44	13.61	88%	13.59	0.576
4/1/2022	13.44	13.62	84%	13.60	0.576
5/1/2022	13.44	13.64	80%	13.60	0.576
6/1/2022	13.44	13.66	76%	13.61	0.576
7/1/2022	13.44	13.66	72%	13.60	0.576
8/1/2022	13.44	13.66	68%	13.59	0.576
9/1/2022	13.44	14.23	64%	13.95	0.576
10/1/2022	13.44	13.96	60%	13.76	0.576
11/1/2022	13.44	13.73	56%	13.60	0.576
12/1/2022	13.44	13.75	52%	13.60	0.576
1/1/2023	13.75	13.90	48%	13.82	0.585
2/1/2023	13.75	13.92	44%	13.83	0.585
3/1/2023	13.75	13.94	40%	13.83	0.585
4/1/2023	13.75	13.96	36%	13.82	0.585
5/1/2023	13.75	13.98	32%	13.82	0.585
6/1/2023	13.75	13.99	28%	13.82	0.585
7/1/2023	13.75	13.93	24%	13.79	0.585
8/1/2023	13.75	13.93	20%	13.79	0.585
9/1/2023	13.75	14.51	16%	13.87	0.585
10/1/2023	13.75	14.24	12%	13.81	0.585
11/1/2023	13.75	14.00	8%	13.77	0.585
12/1/2023	13.75	14.03	4%	13.76	0.585
1/1/2024	14.08	14.18	0%	14.08	0.593
2/1/2024	14.08	14.20	0%	14.08	0.593
3/1/2024	14.08	14.22	0%	14.08	0.593
4/1/2024	14.08	14.24	0%	14.08	0.593
5/1/2024	14.08	14.26	0%	14.08	0.593

PROSYM INPUT

Date	nomianl$/MMBtu
1/1/2019	13.48
2/1/2019	14.42
3/1/2019	14.33
4/1/2019	14.88
5/1/2019	14.84
6/1/2019	13.72
7/1/2019	14.41
8/1/2019	13.59
9/1/2019	14.13
10/1/2019	13.86
11/1/2019	13.63
12/1/2019	13.64
1/1/2020	14.36
2/1/2020	14.65
3/1/2020	15.15
4/1/2020	14.98
5/1/2020	13.66
6/1/2020	14.16
7/1/2020	13.54
8/1/2020	14.38
9/1/2020	14.19
10/1/2020	13.94
11/1/2020	13.72
12/1/2020	13.74
1/1/2021	13.81
2/1/2021	13.83
3/1/2021	13.85
4/1/2021	13.86
5/1/2021	13.88
6/1/2021	13.90
7/1/2021	13.90
8/1/2021	13.90
9/1/2021	14.46
10/1/2021	14.20
11/1/2021	13.97
12/1/2021	13.99
1/1/2022	14.14
2/1/2022	14.15
3/1/2022	14.16
4/1/2022	14.17
5/1/2022	14.18
6/1/2022	14.18
7/1/2022	14.17
8/1/2022	14.17
9/1/2022	14.52
10/1/2022	14.33
11/1/2022	14.18
12/1/2022	14.18
1/1/2023	14.41
2/1/2023	14.41
3/1/2023	14.41
4/1/2023	14.41
5/1/2023	14.41
6/1/2023	14.40
7/1/2023	14.38
8/1/2023	14.37
9/1/2023	14.46
10/1/2023	14.39
11/1/2023	14.35
12/1/2023	14.35
1/1/2024	14.68
2/1/2024	14.68
3/1/2024	14.68
4/1/2024	14.68
5/1/2024	14.68

ANNUAL AVERAGE

		Shady Hills
2019	2019	14.08
2019	2020	14.21
2019	2021	13.96
2019	2022	14.21
2019	2023	14.40
2019	2024	14.68
2019	2025	15.04
2019	2026	15.61
2019	2027	16.26
2019	2028	17.02
2019	2029	17.71
2019	2030	18.15
2020	2031	18.55
2020	2032	18.97
2020	2033	19.40
2020	2034	19.85
2020	2035	20.30
2020	2036	20.76
2020	2037	21.24
2020	2038	21.64
2020	2039	22.03
2020	2040	22.17
2020	2041	22.74
2020	2042	23.32
2021	2043	23.52
2021	2044	24.13
2021	2045	24.33
2021	2046	24.94
2021	2047	25.56
2021	2048	25.75
2021	2049	26.39
2021	2050	26.41
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6/1/2024	14.08	14.27	0%	14.08	0.593	6/1/2024	14.68	2024
7/1/2024	14.08	14.21	0%	14.08	0.593	7/1/2024	14.68	2024
8/1/2024	14.08	14.21	0%	14.08	0.593	8/1/2024	14.68	2024
9/1/2024	14.08	14.80	0%	14.08	0.593	9/1/2024	14.68	2024
10/1/2024	14.08	14.53	0%	14.08	0.593	10/1/2024	14.68	2024
11/1/2024	14.08	14.28	0%	14.08	0.593	11/1/2024	14.68	2024
12/1/2024	14.08	14.31	0%	14.08	0.593	12/1/2024	14.68	2024
1/1/2025	14.43	14.47	0%	14.43	0.602	1/1/2025	15.04	2025
2/1/2025	14.43	14.48	0%	14.43	0.602	2/1/2025	15.04	2025
3/1/2025	14.43	14.50	0%	14.43	0.602	3/1/2025	15.04	2025
4/1/2025	14.43	14.52	0%	14.43	0.602	4/1/2025	15.04	2025
5/1/2025	14.43	14.54	0%	14.43	0.602	5/1/2025	15.04	2025
6/1/2025	14.43	14.56	0%	14.43	0.602	6/1/2025	15.04	2025
7/1/2025	14.43	14.50	0%	14.43	0.602	7/1/2025	15.04	2025
8/1/2025	14.43	14.50	0%	14.43	0.602	8/1/2025	15.04	2025
9/1/2025	14.43	15.10	0%	14.43	0.602	9/1/2025	15.04	2025
10/1/2025	14.43	14.82	0%	14.43	0.602	10/1/2025	15.04	2025
11/1/2025	14.43	14.57	0%	14.43	0.602	11/1/2025	15.04	2025
12/1/2025	14.43	14.60	0%	14.43	0.602	12/1/2025	15.04	2025
1/1/2026	15.00	14.75	0%	15.00	0.611	1/1/2026	15.61	2026
2/1/2026	15.00	14.77	0%	15.00	0.611	2/1/2026	15.61	2026
3/1/2026	15.00	14.79	0%	15.00	0.611	3/1/2026	15.61	2026
4/1/2026	15.00	14.81	0%	15.00	0.611	4/1/2026	15.61	2026
5/1/2026	15.00	14.83	0%	15.00	0.611	5/1/2026	15.61	2026
6/1/2026	15.00	14.85	0%	15.00	0.611	6/1/2026	15.61	2026
7/1/2026	15.00	14.79	0%	15.00	0.611	7/1/2026	15.61	2026
8/1/2026	15.00	14.79	0%	15.00	0.611	8/1/2026	15.61	2026
9/1/2026	15.00	15.40	0%	15.00	0.611	9/1/2026	15.61	2026
10/1/2026	15.00	15.11	0%	15.00	0.611	10/1/2026	15.61	2026
11/1/2026	15.00	14.86	0%	15.00	0.611	11/1/2026	15.61	2026
12/1/2026	15.00	14.89	0%	15.00	0.611	12/1/2026	15.61	2026
1/1/2027	15.64	15.05	0%	15.64	0.620	1/1/2027	16.26	2027
2/1/2027	15.64	15.07	0%	15.64	0.620	2/1/2027	16.26	2027
3/1/2027	15.64	15.09	0%	15.64	0.620	3/1/2027	16.26	2027
4/1/2027	15.64	15.11	0%	15.64	0.620	4/1/2027	16.26	2027
5/1/2027	15.64	15.13	0%	15.64	0.620	5/1/2027	16.26	2027
6/1/2027	15.64	15.15	0%	15.64	0.620	6/1/2027	16.26	2027
7/1/2027	15.64	15.08	0%	15.64	0.620	7/1/2027	16.26	2027
8/1/2027	15.64	15.08	0%	15.64	0.620	8/1/2027	16.26	2027
9/1/2027	15.64	15.71	0%	15.64	0.620	9/1/2027	16.26	2027
10/1/2027	15.64	15.42	0%	15.64	0.620	10/1/2027	16.26	2027
11/1/2027	15.64	15.16	0%	15.64	0.620	11/1/2027	16.26	2027
12/1/2027	15.64	15.19	0%	15.64	0.620	12/1/2027	16.26	2027
1/1/2028	16.39	15.35	0%	16.39	0.630	1/1/2028	17.02	2028
2/1/2028	16.39	15.37	0%	16.39	0.630	2/1/2028	17.02	2028
3/1/2028	16.39	15.39	0%	16.39	0.630	3/1/2028	17.02	2028
4/1/2028	16.39	15.41	0%	16.39	0.630	4/1/2028	17.02	2028
5/1/2028	16.39	15.43	0%	16.39	0.630	5/1/2028	17.02	2028
6/1/2028	16.39	15.45	0%	16.39	0.630	6/1/2028	17.02	2028
7/1/2028	16.39	15.38	0%	16.39	0.630	7/1/2028	17.02	2028
8/1/2028	16.39	15.38	0%	16.39	0.630	8/1/2028	17.02	2028
9/1/2028	16.39	16.03	0%	16.39	0.630	9/1/2028	17.02	2028
10/1/2028	16.39	15.73	0%	16.39	0.630	10/1/2028	17.02	2028
11/1/2028	16.39	15.46	0%	16.39	0.630	11/1/2028	17.02	2028
12/1/2028	16.39	15.49	0%	16.39	0.630	12/1/2028	17.02	2028
1/1/2029	17.07	15.66	0%	17.07	0.639	1/1/2029	17.71	2029
2/1/2029	17.07	15.68	0%	17.07	0.639	2/1/2029	17.71	2029
3/1/2029	17.07	15.70	0%	17.07	0.639	3/1/2029	17.71	2029
4/1/2029	17.07	15.72	0%	17.07	0.639	4/1/2029	17.71	2029
5/1/2029	17.07	15.74	0%	17.07	0.639	5/1/2029	17.71	2029
6/1/2029	17.07	15.76	0%	17.07	0.639	6/1/2029	17.71	2029
7/1/2029	17.07	15.69	0%	17.07	0.639	7/1/2029	17.71	2029
8/1/2029	17.07	15.69	0%	17.07	0.639	8/1/2029	17.71	2029
9/1/2029	17.07	16.35	0%	17.07	0.639	9/1/2029	17.71	2029
10/1/2029	17.07	16.04	0%	17.07	0.639	10/1/2029	17.71	2029
11/1/2029	17.07	15.77	0%	17.07	0.639	11/1/2029	17.71	2029
12/1/2029	17.07	15.80	0%	17.07	0.639	12/1/2029	17.71	2029
1/1/2030	17.50	15.97	0%	17.50	0.649	1/1/2030	18.15	2030
2/1/2030	17.50	15.99	0%	17.50	0.649	2/1/2030	18.15	2030
3/1/2030	17.50	16.01	0%	17.50	0.649	3/1/2030	18.15	2030
4/1/2030	17.50	16.03	0%	17.50	0.649	4/1/2030	18.15	2030

5/1/2030	17.50	16.05	0%	17.50	0.649	5/1/2030	18.15	2030
6/1/2030	17.50	16.08	0%	17.50	0.649	6/1/2030	18.15	2030
7/1/2030	17.50	16.00	0%	17.50	0.649	7/1/2030	18.15	2030
8/1/2030	17.50	16.00	0%	17.50	0.649	8/1/2030	18.15	2030
9/1/2030	17.50	16.67	0%	17.50	0.649	9/1/2030	18.15	2030
10/1/2030	17.50	16.36	0%	17.50	0.649	10/1/2030	18.15	2030
11/1/2030	17.50	16.09	0%	17.50	0.649	11/1/2030	18.15	2030
12/1/2030	17.50	16.12	0%	17.50	0.649	12/1/2030	18.15	2030
1/1/2031	17.89	16.29	0%	17.89	0.658	1/1/2031	18.55	2031
2/1/2031	17.89	16.31	0%	17.89	0.658	2/1/2031	18.55	2031
3/1/2031	17.89	16.33	0%	17.89	0.658	3/1/2031	18.55	2031
4/1/2031	17.89	16.35	0%	17.89	0.658	4/1/2031	18.55	2031
5/1/2031	17.89	16.38	0%	17.89	0.658	5/1/2031	18.55	2031
6/1/2031	17.89	16.40	0%	17.89	0.658	6/1/2031	18.55	2031
7/1/2031	17.89	16.32	0%	17.89	0.658	7/1/2031	18.55	2031
8/1/2031	17.89	16.32	0%	17.89	0.658	8/1/2031	18.55	2031
9/1/2031	17.89	17.01	0%	17.89	0.658	9/1/2031	18.55	2031
10/1/2031	17.89	16.69	0%	17.89	0.658	10/1/2031	18.55	2031
11/1/2031	17.89	16.41	0%	17.89	0.658	11/1/2031	18.55	2031
12/1/2031	17.89	16.44	0%	17.89	0.658	12/1/2031	18.55	2031
1/1/2032	18.30	16.62	0%	18.30	0.668	1/1/2032	18.97	2032
2/1/2032	18.30	16.64	0%	18.30	0.668	2/1/2032	18.97	2032
3/1/2032	18.30	16.66	0%	18.30	0.668	3/1/2032	18.97	2032
4/1/2032	18.30	16.68	0%	18.30	0.668	4/1/2032	18.97	2032
5/1/2032	18.30	16.70	0%	18.30	0.668	5/1/2032	18.97	2032
6/1/2032	18.30	16.72	0%	18.30	0.668	6/1/2032	18.97	2032
7/1/2032	18.30	16.65	0%	18.30	0.668	7/1/2032	18.97	2032
8/1/2032	18.30	16.65	0%	18.30	0.668	8/1/2032	18.97	2032
9/1/2032	18.30	17.35	0%	18.30	0.668	9/1/2032	18.97	2032
10/1/2032	18.30	17.02	0%	18.30	0.668	10/1/2032	18.97	2032
11/1/2032	18.30	16.74	0%	18.30	0.668	11/1/2032	18.97	2032
12/1/2032	18.30	16.77	0%	18.30	0.668	12/1/2032	18.97	2032
1/1/2033	18.73	16.95	0%	18.73	0.678	1/1/2033	19.40	2033
2/1/2033	18.73	16.97	0%	18.73	0.678	2/1/2033	19.40	2033
3/1/2033	18.73	16.99	0%	18.73	0.678	3/1/2033	19.40	2033
4/1/2033	18.73	17.01	0%	18.73	0.678	4/1/2033	19.40	2033
5/1/2033	18.73	17.04	0%	18.73	0.678	5/1/2033	19.40	2033
6/1/2033	18.73	17.06	0%	18.73	0.678	6/1/2033	19.40	2033
7/1/2033	18.73	16.98	0%	18.73	0.678	7/1/2033	19.40	2033
8/1/2033	18.73	16.98	0%	18.73	0.678	8/1/2033	19.40	2033
9/1/2033	18.73	17.69	0%	18.73	0.678	9/1/2033	19.40	2033
10/1/2033	18.73	17.36	0%	18.73	0.678	10/1/2033	19.40	2033
11/1/2033	18.73	17.07	0%	18.73	0.678	11/1/2033	19.40	2033
12/1/2033	18.73	17.10	0%	18.73	0.678	12/1/2033	19.40	2033
1/1/2034	19.16	17.29	0%	19.16	0.689	1/1/2034	19.85	2034
2/1/2034	19.16	17.31	0%	19.16	0.689	2/1/2034	19.85	2034
3/1/2034	19.16	17.33	0%	19.16	0.689	3/1/2034	19.85	2034
4/1/2034	19.16	17.36	0%	19.16	0.689	4/1/2034	19.85	2034
5/1/2034	19.16	17.38	0%	19.16	0.689	5/1/2034	19.85	2034
6/1/2034	19.16	17.40	0%	19.16	0.689	6/1/2034	19.85	2034
7/1/2034	19.16	17.32	0%	19.16	0.689	7/1/2034	19.85	2034
8/1/2034	19.16	17.32	0%	19.16	0.689	8/1/2034	19.85	2034
9/1/2034	19.16	18.05	0%	19.16	0.689	9/1/2034	19.85	2034
10/1/2034	19.16	17.71	0%	19.16	0.689	10/1/2034	19.85	2034
11/1/2034	19.16	17.41	0%	19.16	0.689	11/1/2034	19.85	2034
12/1/2034	19.16	17.44	0%	19.16	0.689	12/1/2034	19.85	2034
1/1/2035	19.60	17.63	0%	19.60	0.699	1/1/2035	20.30	2035
2/1/2035	19.60	17.66	0%	19.60	0.699	2/1/2035	20.30	2035
3/1/2035	19.60	17.68	0%	19.60	0.699	3/1/2035	20.30	2035
4/1/2035	19.60	17.70	0%	19.60	0.699	4/1/2035	20.30	2035
5/1/2035	19.60	17.73	0%	19.60	0.699	5/1/2035	20.30	2035
6/1/2035	19.60	17.75	0%	19.60	0.699	6/1/2035	20.30	2035
7/1/2035	19.60	17.67	0%	19.60	0.699	7/1/2035	20.30	2035
8/1/2035	19.60	17.67	0%	19.60	0.699	8/1/2035	20.30	2035
9/1/2035	19.60	18.41	0%	19.60	0.699	9/1/2035	20.30	2035
10/1/2035	19.60	18.06	0%	19.60	0.699	10/1/2035	20.30	2035
11/1/2035	19.60	17.76	0%	19.60	0.699	11/1/2035	20.30	2035
12/1/2035	19.60	17.79	0%	19.60	0.699	12/1/2035	20.30	2035
1/1/2036	20.05	17.99	0%	20.05	0.699	1/1/2036	20.75	2036
2/1/2036	20.05	18.01	0%	20.05	0.699	2/1/2036	20.75	2036
3/1/2036	20.05	18.03	0%	20.05	0.709	3/1/2036	20.76	2036

4/1/2036	20.05	18.06	0%	20.05	0.709	4/1/2036	20.76	2036
5/1/2036	20.05	18.08	0%	20.05	0.709	5/1/2036	20.76	2036
6/1/2036	20.05	18.10	0%	20.05	0.709	6/1/2036	20.76	2036
7/1/2036	20.05	18.02	0%	20.05	0.709	7/1/2036	20.76	2036
8/1/2036	20.05	18.02	0%	20.05	0.709	8/1/2036	20.76	2036
9/1/2036	20.05	18.78	0%	20.05	0.709	9/1/2036	20.76	2036
10/1/2036	20.05	18.42	0%	20.05	0.709	10/1/2036	20.76	2036
11/1/2036	20.05	18.12	0%	20.05	0.709	11/1/2036	20.76	2036
12/1/2036	20.05	18.15	0%	20.05	0.709	12/1/2036	20.76	2036
1/1/2037	20.52	18.35	0%	20.52	0.709	1/1/2037	21.23	2037
2/1/2037	20.52	18.37	0%	20.52	0.709	2/1/2037	21.23	2037
3/1/2037	20.52	18.39	0%	20.52	0.720	3/1/2037	21.24	2037
4/1/2037	20.52	18.42	0%	20.52	0.720	4/1/2037	21.24	2037
5/1/2037	20.52	18.44	0%	20.52	0.720	5/1/2037	21.24	2037
6/1/2037	20.52	18.47	0%	20.52	0.720	6/1/2037	21.24	2037
7/1/2037	20.52	18.38	0%	20.52	0.720	7/1/2037	21.24	2037
8/1/2037	20.52	18.38	0%	20.52	0.720	8/1/2037	21.24	2037
9/1/2037	20.52	19.15	0%	20.52	0.720	9/1/2037	21.24	2037
10/1/2037	20.52	18.79	0%	20.52	0.720	10/1/2037	21.24	2037
11/1/2037	20.52	18.48	0%	20.52	0.720	11/1/2037	21.24	2037
12/1/2037	20.52	18.51	0%	20.52	0.720	12/1/2037	21.24	2037
1/1/2038	20.91	18.71	0%	20.91	0.720	1/1/2038	21.63	2038
2/1/2038	20.91	18.74	0%	20.91	0.720	2/1/2038	21.63	2038
3/1/2038	20.91	18.76	0%	20.91	0.731	3/1/2038	21.64	2038
4/1/2038	20.91	18.79	0%	20.91	0.731	4/1/2038	21.64	2038
5/1/2038	20.91	18.81	0%	20.91	0.731	5/1/2038	21.64	2038
6/1/2038	20.91	18.83	0%	20.91	0.731	6/1/2038	21.64	2038
7/1/2038	20.91	18.75	0%	20.91	0.731	7/1/2038	21.64	2038
8/1/2038	20.91	18.75	0%	20.91	0.731	8/1/2038	21.64	2038
9/1/2038	20.91	19.53	0%	20.91	0.731	9/1/2038	21.64	2038
10/1/2038	20.91	19.17	0%	20.91	0.731	10/1/2038	21.64	2038
11/1/2038	20.91	18.85	0%	20.91	0.731	11/1/2038	21.64	2038
12/1/2038	20.91	18.88	0%	20.91	0.731	12/1/2038	21.64	2038
1/1/2039	21.29	19.09	0%	21.29	0.731	1/1/2039	22.02	2039
2/1/2039	21.29	19.11	0%	21.29	0.731	2/1/2039	22.02	2039
3/1/2039	21.29	19.14	0%	21.29	0.742	3/1/2039	22.03	2039
4/1/2039	21.29	19.16	0%	21.29	0.742	4/1/2039	22.03	2039
5/1/2039	21.29	19.19	0%	21.29	0.742	5/1/2039	22.03	2039
6/1/2039	21.29	19.21	0%	21.29	0.742	6/1/2039	22.03	2039
7/1/2039	21.29	19.13	0%	21.29	0.742	7/1/2039	22.03	2039
8/1/2039	21.29	19.13	0%	21.29	0.742	8/1/2039	22.03	2039
9/1/2039	21.29	19.93	0%	21.29	0.742	9/1/2039	22.03	2039
10/1/2039	21.29	19.55	0%	21.29	0.742	10/1/2039	22.03	2039
11/1/2039	21.29	19.22	0%	21.29	0.742	11/1/2039	22.03	2039
12/1/2039	21.29	19.26	0%	21.29	0.742	12/1/2039	22.03	2039
1/1/2040	21.42	19.47	0%	21.42	0.742	1/1/2040	22.16	2040
2/1/2040	21.42	19.49	0%	21.42	0.742	2/1/2040	22.16	2040
3/1/2040	21.42	19.52	0%	21.42	0.753	3/1/2040	22.17	2040
4/1/2040	21.42	19.54	0%	21.42	0.753	4/1/2040	22.17	2040
5/1/2040	21.42	19.57	0%	21.42	0.753	5/1/2040	22.17	2040
6/1/2040	21.42	19.60	0%	21.42	0.753	6/1/2040	22.17	2040
7/1/2040	21.42	19.51	0%	21.42	0.753	7/1/2040	22.17	2040
8/1/2040	21.42	19.51	0%	21.42	0.753	8/1/2040	22.17	2040
9/1/2040	21.42	20.32	0%	21.42	0.753	9/1/2040	22.17	2040
10/1/2040	21.42	19.94	0%	21.42	0.753	10/1/2040	22.17	2040
11/1/2040	21.42	19.61	0%	21.42	0.753	11/1/2040	22.17	2040
12/1/2040	21.42	19.64	0%	21.42	0.753	12/1/2040	22.17	2040
1/1/2041	21.98	19.86	0%	21.98	0.753	1/1/2041	22.73	2041
2/1/2041	21.98	19.88	0%	21.98	0.753	2/1/2041	22.73	2041
3/1/2041	21.98	19.91	0%	21.98	0.764	3/1/2041	22.74	2041
4/1/2041	21.98	19.94	0%	21.98	0.764	4/1/2041	22.74	2041
5/1/2041	21.98	19.96	0%	21.98	0.764	5/1/2041	22.74	2041
6/1/2041	21.98	19.99	0%	21.98	0.764	6/1/2041	22.74	2041
7/1/2041	21.98	19.90	0%	21.98	0.764	7/1/2041	22.74	2041
8/1/2041	21.98	19.90	0%	21.98	0.764	8/1/2041	22.74	2041
9/1/2041	21.98	20.73	0%	21.98	0.764	9/1/2041	22.74	2041
10/1/2041	21.98	20.34	0%	21.98	0.764	10/1/2041	22.74	2041
11/1/2041	21.98	20.00	0%	21.98	0.764	11/1/2041	22.74	2041
12/1/2041	21.98	20.04	0%	21.98	0.764	12/1/2041	22.74	2041
1/1/2042	22.55	20.25	0%	22.55	0.764	1/1/2042	23.32	2042
2/1/2042	22.55	20.28	0%	22.55	0.764	2/1/2042	23.32	2042

3/1/2042	22.55	20.31	0%	22.55	0.776	3/1/2042	23.33	2042
4/1/2042	22.55	20.33	0%	22.55	0.776	4/1/2042	23.33	2042
5/1/2042	22.55	20.36	0%	22.55	0.776	5/1/2042	23.33	2042
6/1/2042	22.55	20.39	0%	22.55	0.776	6/1/2042	23.33	2042
7/1/2042	22.55	20.30	0%	22.55	0.776	7/1/2042	23.33	2042
8/1/2042	22.55	20.30	0%	22.55	0.776	8/1/2042	23.33	2042
9/1/2042	22.55	21.14	0%	22.55	0.776	9/1/2042	23.33	2042
10/1/2042	22.55	20.75	0%	22.55	0.776	10/1/2042	23.33	2042
11/1/2042	22.55	20.40	0%	22.55	0.776	11/1/2042	23.33	2042
12/1/2042	22.55	20.44	0%	22.55	0.776	12/1/2042	23.33	2042
1/1/2043	22.74	20.66	0%	22.74	0.776	1/1/2043	23.51	2043
2/1/2043	22.74	20.69	0%	22.74	0.776	2/1/2043	23.51	2043
3/1/2043	22.74	20.71	0%	22.74	0.787	3/1/2043	23.53	2043
4/1/2043	22.74	20.74	0%	22.74	0.787	4/1/2043	23.53	2043
5/1/2043	22.74	20.77	0%	22.74	0.787	5/1/2043	23.53	2043
6/1/2043	22.74	20.80	0%	22.74	0.787	6/1/2043	23.53	2043
7/1/2043	22.74	20.70	0%	22.74	0.787	7/1/2043	23.53	2043
8/1/2043	22.74	20.70	0%	22.74	0.787	8/1/2043	23.53	2043
9/1/2043	22.74	21.57	0%	22.74	0.787	9/1/2043	23.53	2043
10/1/2043	22.74	21.16	0%	22.74	0.787	10/1/2043	23.53	2043
11/1/2043	22.74	20.81	0%	22.74	0.787	11/1/2043	23.53	2043
12/1/2043	22.74	20.85	0%	22.74	0.787	12/1/2043	23.53	2043
1/1/2044	23.33	21.07	0%	23.33	0.787	1/1/2044	24.12	2044
2/1/2044	23.33	21.10	0%	23.33	0.787	2/1/2044	24.12	2044
3/1/2044	23.33	21.13	0%	23.33	0.799	3/1/2044	24.13	2044
4/1/2044	23.33	21.16	0%	23.33	0.799	4/1/2044	24.13	2044
5/1/2044	23.33	21.18	0%	23.33	0.799	5/1/2044	24.13	2044
6/1/2044	23.33	21.21	0%	23.33	0.799	6/1/2044	24.13	2044
7/1/2044	23.33	21.12	0%	23.33	0.799	7/1/2044	24.13	2044
8/1/2044	23.33	21.12	0%	23.33	0.799	8/1/2044	24.13	2044
9/1/2044	23.33	22.00	0%	23.33	0.799	9/1/2044	24.13	2044
10/1/2044	23.33	21.59	0%	23.33	0.799	10/1/2044	24.13	2044
11/1/2044	23.33	21.22	0%	23.33	0.799	11/1/2044	24.13	2044
12/1/2044	23.33	21.26	0%	23.33	0.799	12/1/2044	24.13	2044
1/1/2045	23.52	21.49	0%	23.52	0.799	1/1/2045	24.32	2045
2/1/2045	23.52	21.52	0%	23.52	0.799	2/1/2045	24.32	2045
3/1/2045	23.52	21.55	0%	23.52	0.811	3/1/2045	24.33	2045
4/1/2045	23.52	21.58	0%	23.52	0.811	4/1/2045	24.33	2045
5/1/2045	23.52	21.61	0%	23.52	0.811	5/1/2045	24.33	2045
6/1/2045	23.52	21.64	0%	23.52	0.811	6/1/2045	24.33	2045
7/1/2045	23.52	21.54	0%	23.52	0.811	7/1/2045	24.33	2045
8/1/2045	23.52	21.54	0%	23.52	0.811	8/1/2045	24.33	2045
9/1/2045	23.52	22.44	0%	23.52	0.811	9/1/2045	24.33	2045
10/1/2045	23.52	22.02	0%	23.52	0.811	10/1/2045	24.33	2045
11/1/2045	23.52	21.65	0%	23.52	0.811	11/1/2045	24.33	2045
12/1/2045	23.52	21.69	0%	23.52	0.811	12/1/2045	24.33	2045
1/1/2046	24.12	21.92	0%	24.12	0.811	1/1/2046	24.93	2046
2/1/2046	24.12	21.95	0%	24.12	0.811	2/1/2046	24.93	2046
3/1/2046	24.12	21.98	0%	24.12	0.823	3/1/2046	24.94	2046
4/1/2046	24.12	22.01	0%	24.12	0.823	4/1/2046	24.94	2046
5/1/2046	24.12	22.04	0%	24.12	0.823	5/1/2046	24.94	2046
6/1/2046	24.12	22.07	0%	24.12	0.823	6/1/2046	24.94	2046
7/1/2046	24.12	21.97	0%	24.12	0.823	7/1/2046	24.94	2046
8/1/2046	24.12	21.97	0%	24.12	0.823	8/1/2046	24.94	2046
9/1/2046	24.12	22.89	0%	24.12	0.823	9/1/2046	24.94	2046
10/1/2046	24.12	22.46	0%	24.12	0.823	10/1/2046	24.94	2046
11/1/2046	24.12	22.08	0%	24.12	0.823	11/1/2046	24.94	2046
12/1/2046	24.12	22.12	0%	24.12	0.823	12/1/2046	24.94	2046
1/1/2047	24.73	22.36	0%	24.73	0.823	1/1/2047	25.55	2047
2/1/2047	24.73	22.39	0%	24.73	0.823	2/1/2047	25.55	2047
3/1/2047	24.73	22.42	0%	24.73	0.836	3/1/2047	25.56	2047
4/1/2047	24.73	22.45	0%	24.73	0.836	4/1/2047	25.56	2047
5/1/2047	24.73	22.48	0%	24.73	0.836	5/1/2047	25.56	2047
6/1/2047	24.73	22.51	0%	24.73	0.836	6/1/2047	25.56	2047
7/1/2047	24.73	22.41	0%	24.73	0.836	7/1/2047	25.56	2047
8/1/2047	24.73	22.41	0%	24.73	0.836	8/1/2047	25.56	2047
9/1/2047	24.73	23.35	0%	24.73	0.836	9/1/2047	25.56	2047
10/1/2047	24.73	22.91	0%	24.73	0.836	10/1/2047	25.56	2047
11/1/2047	24.73	22.52	0%	24.73	0.836	11/1/2047	25.56	2047
12/1/2047	24.73	22.57	0%	24.73	0.836	12/1/2047	25.56	2047
1/1/2048	24.91	22.81	0%	24.91	0.836	1/1/2048	25.74	2048

2/1/2048	24.91	22.84	0%	24.91	0.836	2/1/2048	25.74	2048
3/1/2048	24.91	22.87	0%	24.91	0.848	3/1/2048	25.76	2048
4/1/2048	24.91	22.90	0%	24.91	0.848	4/1/2048	25.76	2048
5/1/2048	24.91	22.93	0%	24.91	0.848	5/1/2048	25.76	2048
6/1/2048	24.91	22.96	0%	24.91	0.848	6/1/2048	25.76	2048
7/1/2048	24.91	22.86	0%	24.91	0.848	7/1/2048	25.76	2048
8/1/2048	24.91	22.86	0%	24.91	0.848	8/1/2048	25.76	2048
9/1/2048	24.91	23.81	0%	24.91	0.848	9/1/2048	25.76	2048
10/1/2048	24.91	23.37	0%	24.91	0.848	10/1/2048	25.76	2048
11/1/2048	24.91	22.97	0%	24.91	0.848	11/1/2048	25.76	2048
12/1/2048	24.91	23.02	0%	24.91	0.848	12/1/2048	25.76	2048
1/1/2049	25.53	23.27	0%	25.53	0.848	1/1/2049	26.38	2049
2/1/2049	25.53	23.30	0%	25.53	0.848	2/1/2049	26.38	2049
3/1/2049	25.53	23.33	0%	25.53	0.861	3/1/2049	26.39	2049
4/1/2049	25.53	23.36	0%	25.53	0.861	4/1/2049	26.39	2049
5/1/2049	25.53	23.39	0%	25.53	0.861	5/1/2049	26.39	2049
6/1/2049	25.53	23.42	0%	25.53	0.861	6/1/2049	26.39	2049
7/1/2049	25.53	23.32	0%	25.53	0.861	7/1/2049	26.39	2049
8/1/2049	25.53	23.32	0%	25.53	0.861	8/1/2049	26.39	2049
9/1/2049	25.53	24.29	0%	25.53	0.861	9/1/2049	26.39	2049
10/1/2049	25.53	23.83	0%	25.53	0.861	10/1/2049	26.39	2049
11/1/2049	25.53	23.43	0%	25.53	0.861	11/1/2049	26.39	2049
12/1/2049	25.53	23.48	0%	25.53	0.861	12/1/2049	26.39	2049
1/1/2050	25.53	23.73	0%	25.53	0.861	1/1/2050	26.39	2050
2/1/2050	25.53	23.76	0%	25.53	0.861	2/1/2050	26.39	2050
3/1/2050	25.53	23.79	0%	25.53	0.874	3/1/2050	26.41	2050
4/1/2050	25.53	23.83	0%	25.53	0.874	4/1/2050	26.41	2050
5/1/2050	25.53	23.86	0%	25.53	0.874	5/1/2050	26.41	2050
6/1/2050	25.53	23.89	0%	25.53	0.874	6/1/2050	26.41	2050
7/1/2050	25.53	23.78	0%	25.53	0.874	7/1/2050	26.41	2050
8/1/2050	25.53	23.78	0%	25.53	0.874	8/1/2050	26.41	2050
9/1/2050	25.53	24.77	0%	25.53	0.874	9/1/2050	26.41	2050
10/1/2050	25.53	24.31	0%	25.53	0.874	10/1/2050	26.41	2050
11/1/2050	25.53	23.90	0%	25.53	0.874	11/1/2050	26.41	2050
12/1/2050	25.53	23.95	0%	25.53	0.874	12/1/2050	26.41	2050

Suwanee

PETROLEUM PRODUCT PRICE FORECAST DATA

PROSYM INPUT

ANNUAL AVERAGE

Date	Petroleum Product Price Forecast - Gulf Coast	TCM	Blend TCM/ Fundamental (%)	Blend TCM/ Fundamental ($)	Suwanee Transport ($/MMBtu)
1/1/2019	14.62	12.93	100%	12.93	0.806
2/1/2019	14.62	13.87	100%	13.87	0.806
3/1/2019	14.62	13.78	100%	13.78	0.806
4/1/2019	14.62	14.33	100%	14.33	0.806
5/1/2019	14.62	14.29	100%	14.29	0.806
6/1/2019	14.62	13.17	100%	13.17	0.806
7/1/2019	14.62	13.86	100%	13.86	0.806
8/1/2019	14.62	13.04	100%	13.04	0.806
9/1/2019	14.62	13.58	100%	13.58	0.806
10/1/2019	14.62	13.31	100%	13.31	0.806
11/1/2019	14.62	13.08	100%	13.08	0.806
12/1/2019	14.62	13.09	100%	13.09	0.806
1/1/2020	13.66	13.80	100%	13.80	0.818
2/1/2020	13.66	14.09	100%	14.09	0.818
3/1/2020	13.66	14.60	100%	14.60	0.818
4/1/2020	13.66	14.42	100%	14.42	0.818
5/1/2020	13.66	13.11	100%	13.11	0.818
6/1/2020	13.66	13.60	100%	13.60	0.818
7/1/2020	13.66	12.98	100%	12.98	0.818
8/1/2020	13.66	13.82	100%	13.82	0.818
9/1/2020	13.66	13.64	100%	13.64	0.818
10/1/2020	13.66	13.38	100%	13.38	0.818
11/1/2020	13.66	13.16	100%	13.16	0.818
12/1/2020	13.66	13.18	100%	13.18	0.818
1/1/2021	13.38	13.24	100%	13.24	0.830
2/1/2021	13.38	13.26	100%	13.26	0.830
3/1/2021	13.38	13.28	100%	13.28	0.830
4/1/2021	13.38	13.30	100%	13.30	0.830
5/1/2021	13.38	13.31	100%	13.31	0.830
6/1/2021	13.38	13.33	100%	13.33	0.830
7/1/2021	13.38	13.33	100%	13.33	0.830
8/1/2021	13.38	13.33	100%	13.33	0.830
9/1/2021	13.38	13.89	100%	13.89	0.830
10/1/2021	13.38	13.63	100%	13.63	0.830
11/1/2021	13.38	13.40	100%	13.40	0.830
12/1/2021	13.38	13.42	100%	13.42	0.830
1/1/2022	13.44	13.57	96%	13.57	0.843
2/1/2022	13.44	13.59	92%	13.58	0.843
3/1/2022	13.44	13.61	88%	13.59	0.843
4/1/2022	13.44	13.62	84%	13.60	0.843
5/1/2022	13.44	13.64	80%	13.60	0.843
6/1/2022	13.44	13.66	76%	13.61	0.843
7/1/2022	13.44	13.66	72%	13.60	0.843
8/1/2022	13.44	13.66	68%	13.59	0.843
9/1/2022	13.44	14.23	64%	13.95	0.843
10/1/2022	13.44	13.96	60%	13.76	0.843
11/1/2022	13.44	13.73	56%	13.60	0.843
12/1/2022	13.44	13.75	52%	13.60	0.843
1/1/2023	13.75	13.90	48%	13.82	0.855
2/1/2023	13.75	13.92	44%	13.83	0.855
3/1/2023	13.75	13.94	40%	13.83	0.855
4/1/2023	13.75	13.96	36%	13.82	0.855
5/1/2023	13.75	13.98	32%	13.82	0.855
6/1/2023	13.75	13.99	28%	13.82	0.855
7/1/2023	13.75	13.93	24%	13.79	0.855
8/1/2023	13.75	13.93	20%	13.79	0.855
9/1/2023	13.75	14.51	16%	13.87	0.855
10/1/2023	13.75	14.24	12%	13.81	0.855
11/1/2023	13.75	14.00	8%	13.77	0.855
12/1/2023	13.75	14.03	4%	13.76	0.855
1/1/2024	14.08	14.18	0%	14.08	0.868
2/1/2024	14.08	14.20	0%	14.08	0.868
3/1/2024	14.08	14.22	0%	14.08	0.868
4/1/2024	14.08	14.24	0%	14.08	0.868
5/1/2024	14.08	14.26	0%	14.08	0.868

Date	nomianl$/MMBtu
1/1/2019	13.73
2/1/2019	14.68
3/1/2019	14.59
4/1/2019	15.13
5/1/2019	15.10
6/1/2019	13.97
7/1/2019	14.67
8/1/2019	13.85
9/1/2019	14.39
10/1/2019	14.12
11/1/2019	13.88
12/1/2019	13.90
1/1/2020	14.62
2/1/2020	14.91
3/1/2020	15.41
4/1/2020	15.24
5/1/2020	13.92
6/1/2020	14.42
7/1/2020	13.80
8/1/2020	14.64
9/1/2020	14.45
10/1/2020	14.20
11/1/2020	13.97
12/1/2020	14.00
1/1/2021	14.07
2/1/2021	14.09
3/1/2021	14.11
4/1/2021	14.13
5/1/2021	14.14
6/1/2021	14.16
7/1/2021	14.16
8/1/2021	14.16
9/1/2021	14.72
10/1/2021	14.46
11/1/2021	14.23
12/1/2021	14.25
1/1/2022	14.41
2/1/2022	14.42
3/1/2022	14.43
4/1/2022	14.44
5/1/2022	14.45
6/1/2022	14.45
7/1/2022	14.44
8/1/2022	14.43
9/1/2022	14.79
10/1/2022	14.60
11/1/2022	14.45
12/1/2022	14.45
1/1/2023	14.68
2/1/2023	14.68
3/1/2023	14.68
4/1/2023	14.68
5/1/2023	14.68
6/1/2023	14.67
7/1/2023	14.65
8/1/2023	14.64
9/1/2023	14.73
10/1/2023	14.66
11/1/2023	14.62
12/1/2023	14.62
1/1/2024	14.95
2/1/2024	14.95
3/1/2024	14.95
4/1/2024	14.95
5/1/2024	14.95

		Suwanee
2019	2019	14.33
2019	2020	14.47
2019	2021	14.22
2019	2022	14.48
2019	2023	14.67
2019	2024	14.95
2019	2025	15.32
2019	2026	15.89
2019	2027	16.55
2019	2028	17.31
2019	2029	18.01
2019	2030	18.45
2020	2031	18.85
2020	2032	19.28
2020	2033	19.72
2020	2034	20.16
2020	2035	20.62
2020	2036	21.09
2020	2037	21.57
2020	2038	21.98
2020	2039	22.37
2020	2040	22.52
2020	2041	23.09
2020	2042	23.68
2021	2043	23.89
2021	2044	24.50
2021	2045	24.70
2021	2046	25.32
2021	2047	25.95
2021	2048	26.15
2021	2049	26.79
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6/1/2024	14.08	14.27	0%	14.08	0.868	6/1/2024	14.95	2024
7/1/2024	14.08	14.21	0%	14.08	0.868	7/1/2024	14.95	2024
8/1/2024	14.08	14.21	0%	14.08	0.868	8/1/2024	14.95	2024
9/1/2024	14.08	14.80	0%	14.08	0.868	9/1/2024	14.95	2024
10/1/2024	14.08	14.53	0%	14.08	0.868	10/1/2024	14.95	2024
11/1/2024	14.08	14.28	0%	14.08	0.868	11/1/2024	14.95	2024
12/1/2024	14.08	14.31	0%	14.08	0.868	12/1/2024	14.95	2024
1/1/2025	14.43	14.47	0%	14.43	0.881	1/1/2025	15.32	2025
2/1/2025	14.43	14.48	0%	14.43	0.881	2/1/2025	15.32	2025
3/1/2025	14.43	14.50	0%	14.43	0.881	3/1/2025	15.32	2025
4/1/2025	14.43	14.52	0%	14.43	0.881	4/1/2025	15.32	2025
5/1/2025	14.43	14.54	0%	14.43	0.881	5/1/2025	15.32	2025
6/1/2025	14.43	14.56	0%	14.43	0.881	6/1/2025	15.32	2025
7/1/2025	14.43	14.50	0%	14.43	0.881	7/1/2025	15.32	2025
8/1/2025	14.43	14.50	0%	14.43	0.881	8/1/2025	15.32	2025
9/1/2025	14.43	15.10	0%	14.43	0.881	9/1/2025	15.32	2025
10/1/2025	14.43	14.82	0%	14.43	0.881	10/1/2025	15.32	2025
11/1/2025	14.43	14.57	0%	14.43	0.881	11/1/2025	15.32	2025
12/1/2025	14.43	14.60	0%	14.43	0.881	12/1/2025	15.32	2025
1/1/2026	15.00	14.75	0%	15.00	0.894	1/1/2026	15.89	2026
2/1/2026	15.00	14.77	0%	15.00	0.894	2/1/2026	15.89	2026
3/1/2026	15.00	14.79	0%	15.00	0.894	3/1/2026	15.89	2026
4/1/2026	15.00	14.81	0%	15.00	0.894	4/1/2026	15.89	2026
5/1/2026	15.00	14.83	0%	15.00	0.894	5/1/2026	15.89	2026
6/1/2026	15.00	14.85	0%	15.00	0.894	6/1/2026	15.89	2026
7/1/2026	15.00	14.79	0%	15.00	0.894	7/1/2026	15.89	2026
8/1/2026	15.00	14.79	0%	15.00	0.894	8/1/2026	15.89	2026
9/1/2026	15.00	15.40	0%	15.00	0.894	9/1/2026	15.89	2026
10/1/2026	15.00	15.11	0%	15.00	0.894	10/1/2026	15.89	2026
11/1/2026	15.00	14.86	0%	15.00	0.894	11/1/2026	15.89	2026
12/1/2026	15.00	14.89	0%	15.00	0.894	12/1/2026	15.89	2026
1/1/2027	15.64	15.05	0%	15.64	0.908	1/1/2027	16.55	2027
2/1/2027	15.64	15.07	0%	15.64	0.908	2/1/2027	16.55	2027
3/1/2027	15.64	15.09	0%	15.64	0.908	3/1/2027	16.55	2027
4/1/2027	15.64	15.11	0%	15.64	0.908	4/1/2027	16.55	2027
5/1/2027	15.64	15.13	0%	15.64	0.908	5/1/2027	16.55	2027
6/1/2027	15.64	15.15	0%	15.64	0.908	6/1/2027	16.55	2027
7/1/2027	15.64	15.08	0%	15.64	0.908	7/1/2027	16.55	2027
8/1/2027	15.64	15.08	0%	15.64	0.908	8/1/2027	16.55	2027
9/1/2027	15.64	15.71	0%	15.64	0.908	9/1/2027	16.55	2027
10/1/2027	15.64	15.42	0%	15.64	0.908	10/1/2027	16.55	2027
11/1/2027	15.64	15.16	0%	15.64	0.908	11/1/2027	16.55	2027
12/1/2027	15.64	15.19	0%	15.64	0.908	12/1/2027	16.55	2027
1/1/2028	16.39	15.35	0%	16.39	0.921	1/1/2028	17.31	2028
2/1/2028	16.39	15.37	0%	16.39	0.921	2/1/2028	17.31	2028
3/1/2028	16.39	15.39	0%	16.39	0.921	3/1/2028	17.31	2028
4/1/2028	16.39	15.41	0%	16.39	0.921	4/1/2028	17.31	2028
5/1/2028	16.39	15.43	0%	16.39	0.921	5/1/2028	17.31	2028
6/1/2028	16.39	15.45	0%	16.39	0.921	6/1/2028	17.31	2028
7/1/2028	16.39	15.38	0%	16.39	0.921	7/1/2028	17.31	2028
8/1/2028	16.39	15.38	0%	16.39	0.921	8/1/2028	17.31	2028
9/1/2028	16.39	16.03	0%	16.39	0.921	9/1/2028	17.31	2028
10/1/2028	16.39	15.73	0%	16.39	0.921	10/1/2028	17.31	2028
11/1/2028	16.39	15.46	0%	16.39	0.921	11/1/2028	17.31	2028
12/1/2028	16.39	15.49	0%	16.39	0.921	12/1/2028	17.31	2028
1/1/2029	17.07	15.66	0%	17.07	0.935	1/1/2029	18.01	2029
2/1/2029	17.07	15.68	0%	17.07	0.935	2/1/2029	18.01	2029
3/1/2029	17.07	15.70	0%	17.07	0.935	3/1/2029	18.01	2029
4/1/2029	17.07	15.72	0%	17.07	0.935	4/1/2029	18.01	2029
5/1/2029	17.07	15.74	0%	17.07	0.935	5/1/2029	18.01	2029
6/1/2029	17.07	15.76	0%	17.07	0.935	6/1/2029	18.01	2029
7/1/2029	17.07	15.69	0%	17.07	0.935	7/1/2029	18.01	2029
8/1/2029	17.07	15.69	0%	17.07	0.935	8/1/2029	18.01	2029
9/1/2029	17.07	16.35	0%	17.07	0.935	9/1/2029	18.01	2029
10/1/2029	17.07	16.04	0%	17.07	0.935	10/1/2029	18.01	2029
11/1/2029	17.07	15.77	0%	17.07	0.935	11/1/2029	18.01	2029
12/1/2029	17.07	15.80	0%	17.07	0.935	12/1/2029	18.01	2029
1/1/2030	17.50	15.97	0%	17.50	0.949	1/1/2030	18.45	2030
2/1/2030	17.50	15.99	0%	17.50	0.949	2/1/2030	18.45	2030
3/1/2030	17.50	16.01	0%	17.50	0.949	3/1/2030	18.45	2030
4/1/2030	17.50	16.03	0%	17.50	0.949	4/1/2030	18.45	2030

5/1/2030	17.50	16.05	0%	17.50	0.949	5/1/2030	18.45	2030
6/1/2030	17.50	16.08	0%	17.50	0.949	6/1/2030	18.45	2030
7/1/2030	17.50	16.00	0%	17.50	0.949	7/1/2030	18.45	2030
8/1/2030	17.50	16.00	0%	17.50	0.949	8/1/2030	18.45	2030
9/1/2030	17.50	16.67	0%	17.50	0.949	9/1/2030	18.45	2030
10/1/2030	17.50	16.36	0%	17.50	0.949	10/1/2030	18.45	2030
11/1/2030	17.50	16.09	0%	17.50	0.949	11/1/2030	18.45	2030
12/1/2030	17.50	16.12	0%	17.50	0.949	12/1/2030	18.45	2030
1/1/2031	17.89	16.29	0%	17.89	0.963	1/1/2031	18.85	2031
2/1/2031	17.89	16.31	0%	17.89	0.963	2/1/2031	18.85	2031
3/1/2031	17.89	16.33	0%	17.89	0.963	3/1/2031	18.85	2031
4/1/2031	17.89	16.35	0%	17.89	0.963	4/1/2031	18.85	2031
5/1/2031	17.89	16.38	0%	17.89	0.963	5/1/2031	18.85	2031
6/1/2031	17.89	16.40	0%	17.89	0.963	6/1/2031	18.85	2031
7/1/2031	17.89	16.32	0%	17.89	0.963	7/1/2031	18.85	2031
8/1/2031	17.89	16.32	0%	17.89	0.963	8/1/2031	18.85	2031
9/1/2031	17.89	17.01	0%	17.89	0.963	9/1/2031	18.85	2031
10/1/2031	17.89	16.69	0%	17.89	0.963	10/1/2031	18.85	2031
11/1/2031	17.89	16.41	0%	17.89	0.963	11/1/2031	18.85	2031
12/1/2031	17.89	16.44	0%	17.89	0.963	12/1/2031	18.85	2031
1/1/2032	18.30	16.62	0%	18.30	0.978	1/1/2032	19.28	2032
2/1/2032	18.30	16.64	0%	18.30	0.978	2/1/2032	19.28	2032
3/1/2032	18.30	16.66	0%	18.30	0.978	3/1/2032	19.28	2032
4/1/2032	18.30	16.68	0%	18.30	0.978	4/1/2032	19.28	2032
5/1/2032	18.30	16.70	0%	18.30	0.978	5/1/2032	19.28	2032
6/1/2032	18.30	16.72	0%	18.30	0.978	6/1/2032	19.28	2032
7/1/2032	18.30	16.65	0%	18.30	0.978	7/1/2032	19.28	2032
8/1/2032	18.30	16.65	0%	18.30	0.978	8/1/2032	19.28	2032
9/1/2032	18.30	17.35	0%	18.30	0.978	9/1/2032	19.28	2032
10/1/2032	18.30	17.02	0%	18.30	0.978	10/1/2032	19.28	2032
11/1/2032	18.30	16.74	0%	18.30	0.978	11/1/2032	19.28	2032
12/1/2032	18.30	16.77	0%	18.30	0.978	12/1/2032	19.28	2032
1/1/2033	18.73	16.95	0%	18.73	0.993	1/1/2033	19.72	2033
2/1/2033	18.73	16.97	0%	18.73	0.993	2/1/2033	19.72	2033
3/1/2033	18.73	16.99	0%	18.73	0.993	3/1/2033	19.72	2033
4/1/2033	18.73	17.01	0%	18.73	0.993	4/1/2033	19.72	2033
5/1/2033	18.73	17.04	0%	18.73	0.993	5/1/2033	19.72	2033
6/1/2033	18.73	17.06	0%	18.73	0.993	6/1/2033	19.72	2033
7/1/2033	18.73	16.98	0%	18.73	0.993	7/1/2033	19.72	2033
8/1/2033	18.73	16.98	0%	18.73	0.993	8/1/2033	19.72	2033
9/1/2033	18.73	17.69	0%	18.73	0.993	9/1/2033	19.72	2033
10/1/2033	18.73	17.36	0%	18.73	0.993	10/1/2033	19.72	2033
11/1/2033	18.73	17.07	0%	18.73	0.993	11/1/2033	19.72	2033
12/1/2033	18.73	17.10	0%	18.73	0.993	12/1/2033	19.72	2033
1/1/2034	19.16	17.29	0%	19.16	1.007	1/1/2034	20.16	2034
2/1/2034	19.16	17.31	0%	19.16	1.007	2/1/2034	20.16	2034
3/1/2034	19.16	17.33	0%	19.16	1.007	3/1/2034	20.16	2034
4/1/2034	19.16	17.36	0%	19.16	1.007	4/1/2034	20.16	2034
5/1/2034	19.16	17.38	0%	19.16	1.007	5/1/2034	20.16	2034
6/1/2034	19.16	17.40	0%	19.16	1.007	6/1/2034	20.16	2034
7/1/2034	19.16	17.32	0%	19.16	1.007	7/1/2034	20.16	2034
8/1/2034	19.16	17.32	0%	19.16	1.007	8/1/2034	20.16	2034
9/1/2034	19.16	18.05	0%	19.16	1.007	9/1/2034	20.16	2034
10/1/2034	19.16	17.71	0%	19.16	1.007	10/1/2034	20.16	2034
11/1/2034	19.16	17.41	0%	19.16	1.007	11/1/2034	20.16	2034
12/1/2034	19.16	17.44	0%	19.16	1.007	12/1/2034	20.16	2034
1/1/2035	19.60	17.63	0%	19.60	1.023	1/1/2035	20.62	2035
2/1/2035	19.60	17.66	0%	19.60	1.023	2/1/2035	20.62	2035
3/1/2035	19.60	17.68	0%	19.60	1.023	3/1/2035	20.62	2035
4/1/2035	19.60	17.70	0%	19.60	1.023	4/1/2035	20.62	2035
5/1/2035	19.60	17.73	0%	19.60	1.023	5/1/2035	20.62	2035
6/1/2035	19.60	17.75	0%	19.60	1.023	6/1/2035	20.62	2035
7/1/2035	19.60	17.67	0%	19.60	1.023	7/1/2035	20.62	2035
8/1/2035	19.60	17.67	0%	19.60	1.023	8/1/2035	20.62	2035
9/1/2035	19.60	18.41	0%	19.60	1.023	9/1/2035	20.62	2035
10/1/2035	19.60	18.06	0%	19.60	1.023	10/1/2035	20.62	2035
11/1/2035	19.60	17.76	0%	19.60	1.023	11/1/2035	20.62	2035
12/1/2035	19.60	17.79	0%	19.60	1.023	12/1/2035	20.62	2035
1/1/2036	20.05	17.99	0%	20.05	1.023	1/1/2036	21.07	2036
2/1/2036	20.05	18.01	0%	20.05	1.023	2/1/2036	21.07	2036
3/1/2036	20.05	18.03	0%	20.05	1.038	3/1/2036	21.09	2036

4/1/2036	20.05	18.06	0%	20.05	1.038	4/1/2036	21.09	2036
5/1/2036	20.05	18.08	0%	20.05	1.038	5/1/2036	21.09	2036
6/1/2036	20.05	18.10	0%	20.05	1.038	6/1/2036	21.09	2036
7/1/2036	20.05	18.02	0%	20.05	1.038	7/1/2036	21.09	2036
8/1/2036	20.05	18.02	0%	20.05	1.038	8/1/2036	21.09	2036
9/1/2036	20.05	18.78	0%	20.05	1.038	9/1/2036	21.09	2036
10/1/2036	20.05	18.42	0%	20.05	1.038	10/1/2036	21.09	2036
11/1/2036	20.05	18.12	0%	20.05	1.038	11/1/2036	21.09	2036
12/1/2036	20.05	18.15	0%	20.05	1.038	12/1/2036	21.09	2036
1/1/2037	20.52	18.35	0%	20.52	1.038	1/1/2037	21.56	2037
2/1/2037	20.52	18.37	0%	20.52	1.038	2/1/2037	21.56	2037
3/1/2037	20.52	18.39	0%	20.52	1.054	3/1/2037	21.57	2037
4/1/2037	20.52	18.42	0%	20.52	1.054	4/1/2037	21.57	2037
5/1/2037	20.52	18.44	0%	20.52	1.054	5/1/2037	21.57	2037
6/1/2037	20.52	18.47	0%	20.52	1.054	6/1/2037	21.57	2037
7/1/2037	20.52	18.38	0%	20.52	1.054	7/1/2037	21.57	2037
8/1/2037	20.52	18.38	0%	20.52	1.054	8/1/2037	21.57	2037
9/1/2037	20.52	19.15	0%	20.52	1.054	9/1/2037	21.57	2037
10/1/2037	20.52	18.79	0%	20.52	1.054	10/1/2037	21.57	2037
11/1/2037	20.52	18.48	0%	20.52	1.054	11/1/2037	21.57	2037
12/1/2037	20.52	18.51	0%	20.52	1.054	12/1/2037	21.57	2037
1/1/2038	20.91	18.71	0%	20.91	1.054	1/1/2038	21.96	2038
2/1/2038	20.91	18.74	0%	20.91	1.054	2/1/2038	21.96	2038
3/1/2038	20.91	18.76	0%	20.91	1.070	3/1/2038	21.98	2038
4/1/2038	20.91	18.79	0%	20.91	1.070	4/1/2038	21.98	2038
5/1/2038	20.91	18.81	0%	20.91	1.070	5/1/2038	21.98	2038
6/1/2038	20.91	18.83	0%	20.91	1.070	6/1/2038	21.98	2038
7/1/2038	20.91	18.75	0%	20.91	1.070	7/1/2038	21.98	2038
8/1/2038	20.91	18.75	0%	20.91	1.070	8/1/2038	21.98	2038
9/1/2038	20.91	19.53	0%	20.91	1.070	9/1/2038	21.98	2038
10/1/2038	20.91	19.17	0%	20.91	1.070	10/1/2038	21.98	2038
11/1/2038	20.91	18.85	0%	20.91	1.070	11/1/2038	21.98	2038
12/1/2038	20.91	18.88	0%	20.91	1.070	12/1/2038	21.98	2038
1/1/2039	21.29	19.09	0%	21.29	1.070	1/1/2039	22.36	2039
2/1/2039	21.29	19.11	0%	21.29	1.070	2/1/2039	22.36	2039
3/1/2039	21.29	19.14	0%	21.29	1.086	3/1/2039	22.37	2039
4/1/2039	21.29	19.16	0%	21.29	1.086	4/1/2039	22.37	2039
5/1/2039	21.29	19.19	0%	21.29	1.086	5/1/2039	22.37	2039
6/1/2039	21.29	19.21	0%	21.29	1.086	6/1/2039	22.37	2039
7/1/2039	21.29	19.13	0%	21.29	1.086	7/1/2039	22.37	2039
8/1/2039	21.29	19.13	0%	21.29	1.086	8/1/2039	22.37	2039
9/1/2039	21.29	19.93	0%	21.29	1.086	9/1/2039	22.37	2039
10/1/2039	21.29	19.55	0%	21.29	1.086	10/1/2039	22.37	2039
11/1/2039	21.29	19.22	0%	21.29	1.086	11/1/2039	22.37	2039
12/1/2039	21.29	19.26	0%	21.29	1.086	12/1/2039	22.37	2039
1/1/2040	21.42	19.47	0%	21.42	1.086	1/1/2040	22.51	2040
2/1/2040	21.42	19.49	0%	21.42	1.086	2/1/2040	22.51	2040
3/1/2040	21.42	19.52	0%	21.42	1.102	3/1/2040	22.52	2040
4/1/2040	21.42	19.54	0%	21.42	1.102	4/1/2040	22.52	2040
5/1/2040	21.42	19.57	0%	21.42	1.102	5/1/2040	22.52	2040
6/1/2040	21.42	19.60	0%	21.42	1.102	6/1/2040	22.52	2040
7/1/2040	21.42	19.51	0%	21.42	1.102	7/1/2040	22.52	2040
8/1/2040	21.42	19.51	0%	21.42	1.102	8/1/2040	22.52	2040
9/1/2040	21.42	20.32	0%	21.42	1.102	9/1/2040	22.52	2040
10/1/2040	21.42	19.94	0%	21.42	1.102	10/1/2040	22.52	2040
11/1/2040	21.42	19.61	0%	21.42	1.102	11/1/2040	22.52	2040
12/1/2040	21.42	19.64	0%	21.42	1.102	12/1/2040	22.52	2040
1/1/2041	21.98	19.86	0%	21.98	1.102	1/1/2041	23.08	2041
2/1/2041	21.98	19.88	0%	21.98	1.102	2/1/2041	23.08	2041
3/1/2041	21.98	19.91	0%	21.98	1.119	3/1/2041	23.10	2041
4/1/2041	21.98	19.94	0%	21.98	1.119	4/1/2041	23.10	2041
5/1/2041	21.98	19.96	0%	21.98	1.119	5/1/2041	23.10	2041
6/1/2041	21.98	19.99	0%	21.98	1.119	6/1/2041	23.10	2041
7/1/2041	21.98	19.90	0%	21.98	1.119	7/1/2041	23.10	2041
8/1/2041	21.98	19.90	0%	21.98	1.119	8/1/2041	23.10	2041
9/1/2041	21.98	20.73	0%	21.98	1.119	9/1/2041	23.10	2041
10/1/2041	21.98	20.34	0%	21.98	1.119	10/1/2041	23.10	2041
11/1/2041	21.98	20.00	0%	21.98	1.119	11/1/2041	23.10	2041
12/1/2041	21.98	20.04	0%	21.98	1.119	12/1/2041	23.10	2041
1/1/2042	22.55	20.25	0%	22.55	1.119	1/1/2042	23.67	2042
2/1/2042	22.55	20.28	0%	22.55	1.119	2/1/2042	23.67	2042

3/1/2042	22.55	20.31	0%	22.55	1.135	3/1/2042	23.69	2042
4/1/2042	22.55	20.33	0%	22.55	1.135	4/1/2042	23.69	2042
5/1/2042	22.55	20.36	0%	22.55	1.135	5/1/2042	23.69	2042
6/1/2042	22.55	20.39	0%	22.55	1.135	6/1/2042	23.69	2042
7/1/2042	22.55	20.30	0%	22.55	1.135	7/1/2042	23.69	2042
8/1/2042	22.55	20.30	0%	22.55	1.135	8/1/2042	23.69	2042
9/1/2042	22.55	21.14	0%	22.55	1.135	9/1/2042	23.69	2042
10/1/2042	22.55	20.75	0%	22.55	1.135	10/1/2042	23.69	2042
11/1/2042	22.55	20.40	0%	22.55	1.135	11/1/2042	23.69	2042
12/1/2042	22.55	20.44	0%	22.55	1.135	12/1/2042	23.69	2042
1/1/2043	22.74	20.66	0%	22.74	1.135	1/1/2043	23.87	2043
2/1/2043	22.74	20.69	0%	22.74	1.135	2/1/2043	23.87	2043
3/1/2043	22.74	20.71	0%	22.74	1.152	3/1/2043	23.89	2043
4/1/2043	22.74	20.74	0%	22.74	1.152	4/1/2043	23.89	2043
5/1/2043	22.74	20.77	0%	22.74	1.152	5/1/2043	23.89	2043
6/1/2043	22.74	20.80	0%	22.74	1.152	6/1/2043	23.89	2043
7/1/2043	22.74	20.70	0%	22.74	1.152	7/1/2043	23.89	2043
8/1/2043	22.74	20.70	0%	22.74	1.152	8/1/2043	23.89	2043
9/1/2043	22.74	21.57	0%	22.74	1.152	9/1/2043	23.89	2043
10/1/2043	22.74	21.16	0%	22.74	1.152	10/1/2043	23.89	2043
11/1/2043	22.74	20.81	0%	22.74	1.152	11/1/2043	23.89	2043
12/1/2043	22.74	20.85	0%	22.74	1.152	12/1/2043	23.89	2043
1/1/2044	23.33	21.07	0%	23.33	1.152	1/1/2044	24.48	2044
2/1/2044	23.33	21.10	0%	23.33	1.152	2/1/2044	24.48	2044
3/1/2044	23.33	21.13	0%	23.33	1.170	3/1/2044	24.50	2044
4/1/2044	23.33	21.16	0%	23.33	1.170	4/1/2044	24.50	2044
5/1/2044	23.33	21.18	0%	23.33	1.170	5/1/2044	24.50	2044
6/1/2044	23.33	21.21	0%	23.33	1.170	6/1/2044	24.50	2044
7/1/2044	23.33	21.12	0%	23.33	1.170	7/1/2044	24.50	2044
8/1/2044	23.33	21.12	0%	23.33	1.170	8/1/2044	24.50	2044
9/1/2044	23.33	22.00	0%	23.33	1.170	9/1/2044	24.50	2044
10/1/2044	23.33	21.59	0%	23.33	1.170	10/1/2044	24.50	2044
11/1/2044	23.33	21.22	0%	23.33	1.170	11/1/2044	24.50	2044
12/1/2044	23.33	21.26	0%	23.33	1.170	12/1/2044	24.50	2044
1/1/2045	23.52	21.49	0%	23.52	1.170	1/1/2045	24.69	2045
2/1/2045	23.52	21.52	0%	23.52	1.170	2/1/2045	24.69	2045
3/1/2045	23.52	21.55	0%	23.52	1.187	3/1/2045	24.70	2045
4/1/2045	23.52	21.58	0%	23.52	1.187	4/1/2045	24.70	2045
5/1/2045	23.52	21.61	0%	23.52	1.187	5/1/2045	24.70	2045
6/1/2045	23.52	21.64	0%	23.52	1.187	6/1/2045	24.70	2045
7/1/2045	23.52	21.54	0%	23.52	1.187	7/1/2045	24.70	2045
8/1/2045	23.52	21.54	0%	23.52	1.187	8/1/2045	24.70	2045
9/1/2045	23.52	22.44	0%	23.52	1.187	9/1/2045	24.70	2045
10/1/2045	23.52	22.02	0%	23.52	1.187	10/1/2045	24.70	2045
11/1/2045	23.52	21.65	0%	23.52	1.187	11/1/2045	24.70	2045
12/1/2045	23.52	21.69	0%	23.52	1.187	12/1/2045	24.70	2045
1/1/2046	24.12	21.92	0%	24.12	1.187	1/1/2046	25.31	2046
2/1/2046	24.12	21.95	0%	24.12	1.187	2/1/2046	25.31	2046
3/1/2046	24.12	21.98	0%	24.12	1.205	3/1/2046	25.32	2046
4/1/2046	24.12	22.01	0%	24.12	1.205	4/1/2046	25.32	2046
5/1/2046	24.12	22.04	0%	24.12	1.205	5/1/2046	25.32	2046
6/1/2046	24.12	22.07	0%	24.12	1.205	6/1/2046	25.32	2046
7/1/2046	24.12	21.97	0%	24.12	1.205	7/1/2046	25.32	2046
8/1/2046	24.12	21.97	0%	24.12	1.205	8/1/2046	25.32	2046
9/1/2046	24.12	22.89	0%	24.12	1.205	9/1/2046	25.32	2046
10/1/2046	24.12	22.46	0%	24.12	1.205	10/1/2046	25.32	2046
11/1/2046	24.12	22.08	0%	24.12	1.205	11/1/2046	25.32	2046
12/1/2046	24.12	22.12	0%	24.12	1.205	12/1/2046	25.32	2046
1/1/2047	24.73	22.36	0%	24.73	1.205	1/1/2047	25.93	2047
2/1/2047	24.73	22.39	0%	24.73	1.205	2/1/2047	25.93	2047
3/1/2047	24.73	22.42	0%	24.73	1.223	3/1/2047	25.95	2047
4/1/2047	24.73	22.45	0%	24.73	1.223	4/1/2047	25.95	2047
5/1/2047	24.73	22.48	0%	24.73	1.223	5/1/2047	25.95	2047
6/1/2047	24.73	22.51	0%	24.73	1.223	6/1/2047	25.95	2047
7/1/2047	24.73	22.41	0%	24.73	1.223	7/1/2047	25.95	2047
8/1/2047	24.73	22.41	0%	24.73	1.223	8/1/2047	25.95	2047
9/1/2047	24.73	23.35	0%	24.73	1.223	9/1/2047	25.95	2047
10/1/2047	24.73	22.91	0%	24.73	1.223	10/1/2047	25.95	2047
11/1/2047	24.73	22.52	0%	24.73	1.223	11/1/2047	25.95	2047
12/1/2047	24.73	22.57	0%	24.73	1.223	12/1/2047	25.95	2047
1/1/2048	24.91	22.81	0%	24.91	1.223	1/1/2048	26.13	2048

2/1/2048	24.91	22.84	0%	24.91	1.223	2/1/2048	26.13	2048
3/1/2048	24.91	22.87	0%	24.91	1.241	3/1/2048	26.15	2048
4/1/2048	24.91	22.90	0%	24.91	1.241	4/1/2048	26.15	2048
5/1/2048	24.91	22.93	0%	24.91	1.241	5/1/2048	26.15	2048
6/1/2048	24.91	22.96	0%	24.91	1.241	6/1/2048	26.15	2048
7/1/2048	24.91	22.86	0%	24.91	1.241	7/1/2048	26.15	2048
8/1/2048	24.91	22.86	0%	24.91	1.241	8/1/2048	26.15	2048
9/1/2048	24.91	23.81	0%	24.91	1.241	9/1/2048	26.15	2048
10/1/2048	24.91	23.37	0%	24.91	1.241	10/1/2048	26.15	2048
11/1/2048	24.91	22.97	0%	24.91	1.241	11/1/2048	26.15	2048
12/1/2048	24.91	23.02	0%	24.91	1.241	12/1/2048	26.15	2048
1/1/2049	25.53	23.27	0%	25.53	1.241	1/1/2049	26.78	2049
2/1/2049	25.53	23.30	0%	25.53	1.241	2/1/2049	26.78	2049
3/1/2049	25.53	23.33	0%	25.53	1.260	3/1/2049	26.79	2049
4/1/2049	25.53	23.36	0%	25.53	1.260	4/1/2049	26.79	2049
5/1/2049	25.53	23.39	0%	25.53	1.260	5/1/2049	26.79	2049
6/1/2049	25.53	23.42	0%	25.53	1.260	6/1/2049	26.79	2049
7/1/2049	25.53	23.32	0%	25.53	1.260	7/1/2049	26.79	2049
8/1/2049	25.53	23.32	0%	25.53	1.260	8/1/2049	26.79	2049
9/1/2049	25.53	24.29	0%	25.53	1.260	9/1/2049	26.79	2049
10/1/2049	25.53	23.83	0%	25.53	1.260	10/1/2049	26.79	2049
11/1/2049	25.53	23.43	0%	25.53	1.260	11/1/2049	26.79	2049
12/1/2049	25.53	23.48	0%	25.53	1.260	12/1/2049	26.79	2049
1/1/2050	25.53	23.73	0%	25.53	1.260	1/1/2050	26.79	2050
2/1/2050	25.53	23.76	0%	25.53	1.260	2/1/2050	26.79	2050
3/1/2050	25.53	23.79	0%	25.53	1.279	3/1/2050	26.81	2050
4/1/2050	25.53	23.83	0%	25.53	1.279	4/1/2050	26.81	2050
5/1/2050	25.53	23.86	0%	25.53	1.279	5/1/2050	26.81	2050
6/1/2050	25.53	23.89	0%	25.53	1.279	6/1/2050	26.81	2050
7/1/2050	25.53	23.78	0%	25.53	1.279	7/1/2050	26.81	2050
8/1/2050	25.53	23.78	0%	25.53	1.279	8/1/2050	26.81	2050
9/1/2050	25.53	24.77	0%	25.53	1.279	9/1/2050	26.81	2050
10/1/2050	25.53	24.31	0%	25.53	1.279	10/1/2050	26.81	2050
11/1/2050	25.53	23.90	0%	25.53	1.279	11/1/2050	26.81	2050
12/1/2050	25.53	23.95	0%	25.53	1.279	12/1/2050	26.81	2050

Vandolah

PETROLEUM PRODUCT PRICE FORECAST DATA

PROSYM INPUT

ANNUAL AVERAGE

Date	Petroleum Product Price Forecast - Gulf Coast	TCM	Blend TCM/ Fundamental (%)	Blend TCM/ Fundamental ($)	Vandolah Transport ($/MMBtu)
1/1/2019	14.62	12.93	100%	12.93	0.505
2/1/2019	14.62	13.87	100%	13.87	0.505
3/1/2019	14.62	13.78	100%	13.78	0.505
4/1/2019	14.62	14.33	100%	14.33	0.505
5/1/2019	14.62	14.29	100%	14.29	0.505
6/1/2019	14.62	13.17	100%	13.17	0.505
7/1/2019	14.62	13.86	100%	13.86	0.505
8/1/2019	14.62	13.04	100%	13.04	0.505
9/1/2019	14.62	13.58	100%	13.58	0.505
10/1/2019	14.62	13.31	100%	13.31	0.505
11/1/2019	14.62	13.08	100%	13.08	0.505
12/1/2019	14.62	13.09	100%	13.09	0.505
1/1/2020	13.66	13.80	100%	13.80	0.513
2/1/2020	13.66	14.09	100%	14.09	0.513
3/1/2020	13.66	14.60	100%	14.60	0.513
4/1/2020	13.66	14.42	100%	14.42	0.513
5/1/2020	13.66	13.11	100%	13.11	0.513
6/1/2020	13.66	13.60	100%	13.60	0.513
7/1/2020	13.66	12.98	100%	12.98	0.513
8/1/2020	13.66	13.82	100%	13.82	0.513
9/1/2020	13.66	13.64	100%	13.64	0.513
10/1/2020	13.66	13.38	100%	13.38	0.513
11/1/2020	13.66	13.16	100%	13.16	0.513
12/1/2020	13.66	13.18	100%	13.18	0.513
1/1/2021	13.38	13.24	100%	13.24	0.520
2/1/2021	13.38	13.26	100%	13.26	0.520
3/1/2021	13.38	13.28	100%	13.28	0.520
4/1/2021	13.38	13.30	100%	13.30	0.520
5/1/2021	13.38	13.31	100%	13.31	0.520
6/1/2021	13.38	13.33	100%	13.33	0.520
7/1/2021	13.38	13.33	100%	13.33	0.520
8/1/2021	13.38	13.33	100%	13.33	0.520
9/1/2021	13.38	13.89	100%	13.89	0.520
10/1/2021	13.38	13.63	100%	13.63	0.520
11/1/2021	13.38	13.40	100%	13.40	0.520
12/1/2021	13.38	13.42	100%	13.42	0.520
1/1/2022	13.44	13.57	96%	13.57	0.528
2/1/2022	13.44	13.59	92%	13.58	0.528
3/1/2022	13.44	13.61	88%	13.59	0.528
4/1/2022	13.44	13.62	84%	13.60	0.528
5/1/2022	13.44	13.64	80%	13.60	0.528
6/1/2022	13.44	13.66	76%	13.61	0.528
7/1/2022	13.44	13.66	72%	13.60	0.528
8/1/2022	13.44	13.66	68%	13.59	0.528
9/1/2022	13.44	14.23	64%	13.95	0.528
10/1/2022	13.44	13.96	60%	13.76	0.528
11/1/2022	13.44	13.73	56%	13.60	0.528
12/1/2022	13.44	13.75	52%	13.60	0.528
1/1/2023	13.75	13.90	48%	13.82	0.536
2/1/2023	13.75	13.92	44%	13.83	0.536
3/1/2023	13.75	13.94	40%	13.83	0.536
4/1/2023	13.75	13.96	36%	13.82	0.536
5/1/2023	13.75	13.98	32%	13.82	0.536
6/1/2023	13.75	13.99	28%	13.82	0.536
7/1/2023	13.75	13.93	24%	13.79	0.536
8/1/2023	13.75	13.93	20%	13.79	0.536
9/1/2023	13.75	14.51	16%	13.87	0.536
10/1/2023	13.75	14.24	12%	13.81	0.536
11/1/2023	13.75	14.00	8%	13.77	0.536
12/1/2023	13.75	14.03	4%	13.76	0.536
1/1/2024	14.08	14.18	0%	14.08	0.544
2/1/2024	14.08	14.20	0%	14.08	0.544
3/1/2024	14.08	14.22	0%	14.08	0.544
4/1/2024	14.08	14.24	0%	14.08	0.544
5/1/2024	14.08	14.26	0%	14.08	0.544

Date	nomianl$/MMBtu
1/1/2019	13.43
2/1/2019	14.37
3/1/2019	14.29
4/1/2019	14.83
5/1/2019	14.79
6/1/2019	13.67
7/1/2019	14.37
8/1/2019	13.55
9/1/2019	14.08
10/1/2019	13.82
11/1/2019	13.58
12/1/2019	13.59
1/1/2020	14.32
2/1/2020	14.61
3/1/2020	15.11
4/1/2020	14.94
5/1/2020	13.62
6/1/2020	14.11
7/1/2020	13.50
8/1/2020	14.33
9/1/2020	14.15
10/1/2020	13.89
11/1/2020	13.67
12/1/2020	13.69
1/1/2021	13.76
2/1/2021	13.78
3/1/2021	13.80
4/1/2021	13.82
5/1/2021	13.83
6/1/2021	13.85
7/1/2021	13.85
8/1/2021	13.85
9/1/2021	14.41
10/1/2021	14.15
11/1/2021	13.92
12/1/2021	13.94
1/1/2022	14.09
2/1/2022	14.10
3/1/2022	14.11
4/1/2022	14.12
5/1/2022	14.13
6/1/2022	14.14
7/1/2022	14.13
8/1/2022	14.12
9/1/2022	14.47
10/1/2022	14.28
11/1/2022	14.13
12/1/2022	14.13
1/1/2023	14.36
2/1/2023	14.36
3/1/2023	14.36
4/1/2023	14.36
5/1/2023	14.36
6/1/2023	14.35
7/1/2023	14.33
8/1/2023	14.32
9/1/2023	14.41
10/1/2023	14.34
11/1/2023	14.31
12/1/2023	14.30
1/1/2024	14.63
2/1/2024	14.63
3/1/2024	14.63
4/1/2024	14.63
5/1/2024	14.63

		Vandolah
2019	2019	14.03
2019	2020	14.16
2019	2021	13.91
2019	2022	14.16
2019	2023	14.35
2019	2024	14.63
2019	2025	14.99
2019	2026	15.56
2019	2027	16.21
2019	2028	16.97
2019	2029	17.66
2019	2030	18.09
2020	2031	18.50
2020	2032	18.91
2020	2033	19.35
2020	2034	19.79
2020	2035	20.24
2020	2036	20.70
2020	2037	21.18
2020	2038	21.58
2020	2039	21.96
2020	2040	22.11
2020	2041	22.68
2020	2042	23.26
2021	2043	23.46
2021	2044	24.06
2021	2045	24.26
2021	2046	24.87
2021	2047	25.49
2021	2048	25.68
2021	2049	26.32
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6/1/2024	14.08	14.27	0%	14.08	0.544	6/1/2024	14.63	2024
7/1/2024	14.08	14.21	0%	14.08	0.544	7/1/2024	14.63	2024
8/1/2024	14.08	14.21	0%	14.08	0.544	8/1/2024	14.63	2024
9/1/2024	14.08	14.80	0%	14.08	0.544	9/1/2024	14.63	2024
10/1/2024	14.08	14.53	0%	14.08	0.544	10/1/2024	14.63	2024
11/1/2024	14.08	14.28	0%	14.08	0.544	11/1/2024	14.63	2024
12/1/2024	14.08	14.31	0%	14.08	0.544	12/1/2024	14.63	2024
1/1/2025	14.43	14.47	0%	14.43	0.552	1/1/2025	14.99	2025
2/1/2025	14.43	14.48	0%	14.43	0.552	2/1/2025	14.99	2025
3/1/2025	14.43	14.50	0%	14.43	0.552	3/1/2025	14.99	2025
4/1/2025	14.43	14.52	0%	14.43	0.552	4/1/2025	14.99	2025
5/1/2025	14.43	14.54	0%	14.43	0.552	5/1/2025	14.99	2025
6/1/2025	14.43	14.56	0%	14.43	0.552	6/1/2025	14.99	2025
7/1/2025	14.43	14.50	0%	14.43	0.552	7/1/2025	14.99	2025
8/1/2025	14.43	14.50	0%	14.43	0.552	8/1/2025	14.99	2025
9/1/2025	14.43	15.10	0%	14.43	0.552	9/1/2025	14.99	2025
10/1/2025	14.43	14.82	0%	14.43	0.552	10/1/2025	14.99	2025
11/1/2025	14.43	14.57	0%	14.43	0.552	11/1/2025	14.99	2025
12/1/2025	14.43	14.60	0%	14.43	0.552	12/1/2025	14.99	2025
1/1/2026	15.00	14.75	0%	15.00	0.561	1/1/2026	15.56	2026
2/1/2026	15.00	14.77	0%	15.00	0.561	2/1/2026	15.56	2026
3/1/2026	15.00	14.79	0%	15.00	0.561	3/1/2026	15.56	2026
4/1/2026	15.00	14.81	0%	15.00	0.561	4/1/2026	15.56	2026
5/1/2026	15.00	14.83	0%	15.00	0.561	5/1/2026	15.56	2026
6/1/2026	15.00	14.85	0%	15.00	0.561	6/1/2026	15.56	2026
7/1/2026	15.00	14.79	0%	15.00	0.561	7/1/2026	15.56	2026
8/1/2026	15.00	14.79	0%	15.00	0.561	8/1/2026	15.56	2026
9/1/2026	15.00	15.40	0%	15.00	0.561	9/1/2026	15.56	2026
10/1/2026	15.00	15.11	0%	15.00	0.561	10/1/2026	15.56	2026
11/1/2026	15.00	14.86	0%	15.00	0.561	11/1/2026	15.56	2026
12/1/2026	15.00	14.89	0%	15.00	0.561	12/1/2026	15.56	2026
1/1/2027	15.64	15.05	0%	15.64	0.569	1/1/2027	16.21	2027
2/1/2027	15.64	15.07	0%	15.64	0.569	2/1/2027	16.21	2027
3/1/2027	15.64	15.09	0%	15.64	0.569	3/1/2027	16.21	2027
4/1/2027	15.64	15.11	0%	15.64	0.569	4/1/2027	16.21	2027
5/1/2027	15.64	15.13	0%	15.64	0.569	5/1/2027	16.21	2027
6/1/2027	15.64	15.15	0%	15.64	0.569	6/1/2027	16.21	2027
7/1/2027	15.64	15.08	0%	15.64	0.569	7/1/2027	16.21	2027
8/1/2027	15.64	15.08	0%	15.64	0.569	8/1/2027	16.21	2027
9/1/2027	15.64	15.71	0%	15.64	0.569	9/1/2027	16.21	2027
10/1/2027	15.64	15.42	0%	15.64	0.569	10/1/2027	16.21	2027
11/1/2027	15.64	15.16	0%	15.64	0.569	11/1/2027	16.21	2027
12/1/2027	15.64	15.19	0%	15.64	0.569	12/1/2027	16.21	2027
1/1/2028	16.39	15.35	0%	16.39	0.577	1/1/2028	16.97	2028
2/1/2028	16.39	15.37	0%	16.39	0.577	2/1/2028	16.97	2028
3/1/2028	16.39	15.39	0%	16.39	0.577	3/1/2028	16.97	2028
4/1/2028	16.39	15.41	0%	16.39	0.577	4/1/2028	16.97	2028
5/1/2028	16.39	15.43	0%	16.39	0.577	5/1/2028	16.97	2028
6/1/2028	16.39	15.45	0%	16.39	0.577	6/1/2028	16.97	2028
7/1/2028	16.39	15.38	0%	16.39	0.577	7/1/2028	16.97	2028
8/1/2028	16.39	15.38	0%	16.39	0.577	8/1/2028	16.97	2028
9/1/2028	16.39	16.03	0%	16.39	0.577	9/1/2028	16.97	2028
10/1/2028	16.39	15.73	0%	16.39	0.577	10/1/2028	16.97	2028
11/1/2028	16.39	15.46	0%	16.39	0.577	11/1/2028	16.97	2028
12/1/2028	16.39	15.49	0%	16.39	0.577	12/1/2028	16.97	2028
1/1/2029	17.07	15.66	0%	17.07	0.586	1/1/2029	17.66	2029
2/1/2029	17.07	15.68	0%	17.07	0.586	2/1/2029	17.66	2029
3/1/2029	17.07	15.70	0%	17.07	0.586	3/1/2029	17.66	2029
4/1/2029	17.07	15.72	0%	17.07	0.586	4/1/2029	17.66	2029
5/1/2029	17.07	15.74	0%	17.07	0.586	5/1/2029	17.66	2029
6/1/2029	17.07	15.76	0%	17.07	0.586	6/1/2029	17.66	2029
7/1/2029	17.07	15.69	0%	17.07	0.586	7/1/2029	17.66	2029
8/1/2029	17.07	15.69	0%	17.07	0.586	8/1/2029	17.66	2029
9/1/2029	17.07	16.35	0%	17.07	0.586	9/1/2029	17.66	2029
10/1/2029	17.07	16.04	0%	17.07	0.586	10/1/2029	17.66	2029
11/1/2029	17.07	15.77	0%	17.07	0.586	11/1/2029	17.66	2029
12/1/2029	17.07	15.80	0%	17.07	0.586	12/1/2029	17.66	2029
1/1/2030	17.50	15.97	0%	17.50	0.595	1/1/2030	18.09	2030
2/1/2030	17.50	15.99	0%	17.50	0.595	2/1/2030	18.09	2030
3/1/2030	17.50	16.01	0%	17.50	0.595	3/1/2030	18.09	2030
4/1/2030	17.50	16.03	0%	17.50	0.595	4/1/2030	18.09	2030

5/1/2030	17.50	16.05	0%	17.50	0.595	5/1/2030	18.09	2030
6/1/2030	17.50	16.08	0%	17.50	0.595	6/1/2030	18.09	2030
7/1/2030	17.50	16.00	0%	17.50	0.595	7/1/2030	18.09	2030
8/1/2030	17.50	16.00	0%	17.50	0.595	8/1/2030	18.09	2030
9/1/2030	17.50	16.67	0%	17.50	0.595	9/1/2030	18.09	2030
10/1/2030	17.50	16.36	0%	17.50	0.595	10/1/2030	18.09	2030
11/1/2030	17.50	16.09	0%	17.50	0.595	11/1/2030	18.09	2030
12/1/2030	17.50	16.12	0%	17.50	0.595	12/1/2030	18.09	2030
1/1/2031	17.89	16.29	0%	17.89	0.604	1/1/2031	18.50	2031
2/1/2031	17.89	16.31	0%	17.89	0.604	2/1/2031	18.50	2031
3/1/2031	17.89	16.33	0%	17.89	0.604	3/1/2031	18.50	2031
4/1/2031	17.89	16.35	0%	17.89	0.604	4/1/2031	18.50	2031
5/1/2031	17.89	16.38	0%	17.89	0.604	5/1/2031	18.50	2031
6/1/2031	17.89	16.40	0%	17.89	0.604	6/1/2031	18.50	2031
7/1/2031	17.89	16.32	0%	17.89	0.604	7/1/2031	18.50	2031
8/1/2031	17.89	16.32	0%	17.89	0.604	8/1/2031	18.50	2031
9/1/2031	17.89	17.01	0%	17.89	0.604	9/1/2031	18.50	2031
10/1/2031	17.89	16.69	0%	17.89	0.604	10/1/2031	18.50	2031
11/1/2031	17.89	16.41	0%	17.89	0.604	11/1/2031	18.50	2031
12/1/2031	17.89	16.44	0%	17.89	0.604	12/1/2031	18.50	2031
1/1/2032	18.30	16.62	0%	18.30	0.613	1/1/2032	18.91	2032
2/1/2032	18.30	16.64	0%	18.30	0.613	2/1/2032	18.91	2032
3/1/2032	18.30	16.66	0%	18.30	0.613	3/1/2032	18.91	2032
4/1/2032	18.30	16.68	0%	18.30	0.613	4/1/2032	18.91	2032
5/1/2032	18.30	16.70	0%	18.30	0.613	5/1/2032	18.91	2032
6/1/2032	18.30	16.72	0%	18.30	0.613	6/1/2032	18.91	2032
7/1/2032	18.30	16.65	0%	18.30	0.613	7/1/2032	18.91	2032
8/1/2032	18.30	16.65	0%	18.30	0.613	8/1/2032	18.91	2032
9/1/2032	18.30	17.35	0%	18.30	0.613	9/1/2032	18.91	2032
10/1/2032	18.30	17.02	0%	18.30	0.613	10/1/2032	18.91	2032
11/1/2032	18.30	16.74	0%	18.30	0.613	11/1/2032	18.91	2032
12/1/2032	18.30	16.77	0%	18.30	0.613	12/1/2032	18.91	2032
1/1/2033	18.73	16.95	0%	18.73	0.622	1/1/2033	19.35	2033
2/1/2033	18.73	16.97	0%	18.73	0.622	2/1/2033	19.35	2033
3/1/2033	18.73	16.99	0%	18.73	0.622	3/1/2033	19.35	2033
4/1/2033	18.73	17.01	0%	18.73	0.622	4/1/2033	19.35	2033
5/1/2033	18.73	17.04	0%	18.73	0.622	5/1/2033	19.35	2033
6/1/2033	18.73	17.06	0%	18.73	0.622	6/1/2033	19.35	2033
7/1/2033	18.73	16.98	0%	18.73	0.622	7/1/2033	19.35	2033
8/1/2033	18.73	16.98	0%	18.73	0.622	8/1/2033	19.35	2033
9/1/2033	18.73	17.69	0%	18.73	0.622	9/1/2033	19.35	2033
10/1/2033	18.73	17.36	0%	18.73	0.622	10/1/2033	19.35	2033
11/1/2033	18.73	17.07	0%	18.73	0.622	11/1/2033	19.35	2033
12/1/2033	18.73	17.10	0%	18.73	0.622	12/1/2033	19.35	2033
1/1/2034	19.16	17.29	0%	19.16	0.631	1/1/2034	19.79	2034
2/1/2034	19.16	17.31	0%	19.16	0.631	2/1/2034	19.79	2034
3/1/2034	19.16	17.33	0%	19.16	0.631	3/1/2034	19.79	2034
4/1/2034	19.16	17.36	0%	19.16	0.631	4/1/2034	19.79	2034
5/1/2034	19.16	17.38	0%	19.16	0.631	5/1/2034	19.79	2034
6/1/2034	19.16	17.40	0%	19.16	0.631	6/1/2034	19.79	2034
7/1/2034	19.16	17.32	0%	19.16	0.631	7/1/2034	19.79	2034
8/1/2034	19.16	17.32	0%	19.16	0.631	8/1/2034	19.79	2034
9/1/2034	19.16	18.05	0%	19.16	0.631	9/1/2034	19.79	2034
10/1/2034	19.16	17.71	0%	19.16	0.631	10/1/2034	19.79	2034
11/1/2034	19.16	17.41	0%	19.16	0.631	11/1/2034	19.79	2034
12/1/2034	19.16	17.44	0%	19.16	0.631	12/1/2034	19.79	2034
1/1/2035	19.60	17.63	0%	19.60	0.641	1/1/2035	20.24	2035
2/1/2035	19.60	17.66	0%	19.60	0.641	2/1/2035	20.24	2035
3/1/2035	19.60	17.68	0%	19.60	0.641	3/1/2035	20.24	2035
4/1/2035	19.60	17.70	0%	19.60	0.641	4/1/2035	20.24	2035
5/1/2035	19.60	17.73	0%	19.60	0.641	5/1/2035	20.24	2035
6/1/2035	19.60	17.75	0%	19.60	0.641	6/1/2035	20.24	2035
7/1/2035	19.60	17.67	0%	19.60	0.641	7/1/2035	20.24	2035
8/1/2035	19.60	17.67	0%	19.60	0.641	8/1/2035	20.24	2035
9/1/2035	19.60	18.41	0%	19.60	0.641	9/1/2035	20.24	2035
10/1/2035	19.60	18.06	0%	19.60	0.641	10/1/2035	20.24	2035
11/1/2035	19.60	17.76	0%	19.60	0.641	11/1/2035	20.24	2035
12/1/2035	19.60	17.79	0%	19.60	0.641	12/1/2035	20.24	2035
1/1/2036	20.05	17.99	0%	20.05	0.641	1/1/2036	20.69	2036
2/1/2036	20.05	18.01	0%	20.05	0.641	2/1/2036	20.69	2036
3/1/2036	20.05	18.03	0%	20.05	0.651	3/1/2036	20.70	2036

4/1/2036	20.05	18.06	0%	20.05	0.651	4/1/2036	20.70	2036
5/1/2036	20.05	18.08	0%	20.05	0.651	5/1/2036	20.70	2036
6/1/2036	20.05	18.10	0%	20.05	0.651	6/1/2036	20.70	2036
7/1/2036	20.05	18.02	0%	20.05	0.651	7/1/2036	20.70	2036
8/1/2036	20.05	18.02	0%	20.05	0.651	8/1/2036	20.70	2036
9/1/2036	20.05	18.78	0%	20.05	0.651	9/1/2036	20.70	2036
10/1/2036	20.05	18.42	0%	20.05	0.651	10/1/2036	20.70	2036
11/1/2036	20.05	18.12	0%	20.05	0.651	11/1/2036	20.70	2036
12/1/2036	20.05	18.15	0%	20.05	0.651	12/1/2036	20.70	2036
1/1/2037	20.52	18.35	0%	20.52	0.651	1/1/2037	21.17	2037
2/1/2037	20.52	18.37	0%	20.52	0.651	2/1/2037	21.17	2037
3/1/2037	20.52	18.39	0%	20.52	0.660	3/1/2037	21.18	2037
4/1/2037	20.52	18.42	0%	20.52	0.660	4/1/2037	21.18	2037
5/1/2037	20.52	18.44	0%	20.52	0.660	5/1/2037	21.18	2037
6/1/2037	20.52	18.47	0%	20.52	0.660	6/1/2037	21.18	2037
7/1/2037	20.52	18.38	0%	20.52	0.660	7/1/2037	21.18	2037
8/1/2037	20.52	18.38	0%	20.52	0.660	8/1/2037	21.18	2037
9/1/2037	20.52	19.15	0%	20.52	0.660	9/1/2037	21.18	2037
10/1/2037	20.52	18.79	0%	20.52	0.660	10/1/2037	21.18	2037
11/1/2037	20.52	18.48	0%	20.52	0.660	11/1/2037	21.18	2037
12/1/2037	20.52	18.51	0%	20.52	0.660	12/1/2037	21.18	2037
1/1/2038	20.91	18.71	0%	20.91	0.660	1/1/2038	21.57	2038
2/1/2038	20.91	18.74	0%	20.91	0.660	2/1/2038	21.57	2038
3/1/2038	20.91	18.76	0%	20.91	0.670	3/1/2038	21.58	2038
4/1/2038	20.91	18.79	0%	20.91	0.670	4/1/2038	21.58	2038
5/1/2038	20.91	18.81	0%	20.91	0.670	5/1/2038	21.58	2038
6/1/2038	20.91	18.83	0%	20.91	0.670	6/1/2038	21.58	2038
7/1/2038	20.91	18.75	0%	20.91	0.670	7/1/2038	21.58	2038
8/1/2038	20.91	18.75	0%	20.91	0.670	8/1/2038	21.58	2038
9/1/2038	20.91	19.53	0%	20.91	0.670	9/1/2038	21.58	2038
10/1/2038	20.91	19.17	0%	20.91	0.670	10/1/2038	21.58	2038
11/1/2038	20.91	18.85	0%	20.91	0.670	11/1/2038	21.58	2038
12/1/2038	20.91	18.88	0%	20.91	0.670	12/1/2038	21.58	2038
1/1/2039	21.29	19.09	0%	21.29	0.670	1/1/2039	21.96	2039
2/1/2039	21.29	19.11	0%	21.29	0.670	2/1/2039	21.96	2039
3/1/2039	21.29	19.14	0%	21.29	0.680	3/1/2039	21.97	2039
4/1/2039	21.29	19.16	0%	21.29	0.680	4/1/2039	21.97	2039
5/1/2039	21.29	19.19	0%	21.29	0.680	5/1/2039	21.97	2039
6/1/2039	21.29	19.21	0%	21.29	0.680	6/1/2039	21.97	2039
7/1/2039	21.29	19.13	0%	21.29	0.680	7/1/2039	21.97	2039
8/1/2039	21.29	19.13	0%	21.29	0.680	8/1/2039	21.97	2039
9/1/2039	21.29	19.93	0%	21.29	0.680	9/1/2039	21.97	2039
10/1/2039	21.29	19.55	0%	21.29	0.680	10/1/2039	21.97	2039
11/1/2039	21.29	19.22	0%	21.29	0.680	11/1/2039	21.97	2039
12/1/2039	21.29	19.26	0%	21.29	0.680	12/1/2039	21.97	2039
1/1/2040	21.42	19.47	0%	21.42	0.680	1/1/2040	22.10	2040
2/1/2040	21.42	19.49	0%	21.42	0.680	2/1/2040	22.10	2040
3/1/2040	21.42	19.52	0%	21.42	0.691	3/1/2040	22.11	2040
4/1/2040	21.42	19.54	0%	21.42	0.691	4/1/2040	22.11	2040
5/1/2040	21.42	19.57	0%	21.42	0.691	5/1/2040	22.11	2040
6/1/2040	21.42	19.60	0%	21.42	0.691	6/1/2040	22.11	2040
7/1/2040	21.42	19.51	0%	21.42	0.691	7/1/2040	22.11	2040
8/1/2040	21.42	19.51	0%	21.42	0.691	8/1/2040	22.11	2040
9/1/2040	21.42	20.32	0%	21.42	0.691	9/1/2040	22.11	2040
10/1/2040	21.42	19.94	0%	21.42	0.691	10/1/2040	22.11	2040
11/1/2040	21.42	19.61	0%	21.42	0.691	11/1/2040	22.11	2040
12/1/2040	21.42	19.64	0%	21.42	0.691	12/1/2040	22.11	2040
1/1/2041	21.98	19.86	0%	21.98	0.691	1/1/2041	22.67	2041
2/1/2041	21.98	19.88	0%	21.98	0.691	2/1/2041	22.67	2041
3/1/2041	21.98	19.91	0%	21.98	0.701	3/1/2041	22.68	2041
4/1/2041	21.98	19.94	0%	21.98	0.701	4/1/2041	22.68	2041
5/1/2041	21.98	19.96	0%	21.98	0.701	5/1/2041	22.68	2041
6/1/2041	21.98	19.99	0%	21.98	0.701	6/1/2041	22.68	2041
7/1/2041	21.98	19.90	0%	21.98	0.701	7/1/2041	22.68	2041
8/1/2041	21.98	19.90	0%	21.98	0.701	8/1/2041	22.68	2041
9/1/2041	21.98	20.73	0%	21.98	0.701	9/1/2041	22.68	2041
10/1/2041	21.98	20.34	0%	21.98	0.701	10/1/2041	22.68	2041
11/1/2041	21.98	20.00	0%	21.98	0.701	11/1/2041	22.68	2041
12/1/2041	21.98	20.04	0%	21.98	0.701	12/1/2041	22.68	2041
1/1/2042	22.55	20.25	0%	22.55	0.701	1/1/2042	23.25	2042
2/1/2042	22.55	20.28	0%	22.55	0.701	2/1/2042	23.25	2042

3/1/2042	22.55	20.31	0%	22.55	0.711	3/1/2042	23.26	2042
4/1/2042	22.55	20.33	0%	22.55	0.711	4/1/2042	23.26	2042
5/1/2042	22.55	20.36	0%	22.55	0.711	5/1/2042	23.26	2042
6/1/2042	22.55	20.39	0%	22.55	0.711	6/1/2042	23.26	2042
7/1/2042	22.55	20.30	0%	22.55	0.711	7/1/2042	23.26	2042
8/1/2042	22.55	20.30	0%	22.55	0.711	8/1/2042	23.26	2042
9/1/2042	22.55	21.14	0%	22.55	0.711	9/1/2042	23.26	2042
10/1/2042	22.55	20.75	0%	22.55	0.711	10/1/2042	23.26	2042
11/1/2042	22.55	20.40	0%	22.55	0.711	11/1/2042	23.26	2042
12/1/2042	22.55	20.44	0%	22.55	0.711	12/1/2042	23.26	2042
1/1/2043	22.74	20.66	0%	22.74	0.711	1/1/2043	23.45	2043
2/1/2043	22.74	20.69	0%	22.74	0.711	2/1/2043	23.45	2043
3/1/2043	22.74	20.71	0%	22.74	0.722	3/1/2043	23.46	2043
4/1/2043	22.74	20.74	0%	22.74	0.722	4/1/2043	23.46	2043
5/1/2043	22.74	20.77	0%	22.74	0.722	5/1/2043	23.46	2043
6/1/2043	22.74	20.80	0%	22.74	0.722	6/1/2043	23.46	2043
7/1/2043	22.74	20.70	0%	22.74	0.722	7/1/2043	23.46	2043
8/1/2043	22.74	20.70	0%	22.74	0.722	8/1/2043	23.46	2043
9/1/2043	22.74	21.57	0%	22.74	0.722	9/1/2043	23.46	2043
10/1/2043	22.74	21.16	0%	22.74	0.722	10/1/2043	23.46	2043
11/1/2043	22.74	20.81	0%	22.74	0.722	11/1/2043	23.46	2043
12/1/2043	22.74	20.85	0%	22.74	0.722	12/1/2043	23.46	2043
1/1/2044	23.33	21.07	0%	23.33	0.722	1/1/2044	24.05	2044
2/1/2044	23.33	21.10	0%	23.33	0.722	2/1/2044	24.05	2044
3/1/2044	23.33	21.13	0%	23.33	0.733	3/1/2044	24.06	2044
4/1/2044	23.33	21.16	0%	23.33	0.733	4/1/2044	24.06	2044
5/1/2044	23.33	21.18	0%	23.33	0.733	5/1/2044	24.06	2044
6/1/2044	23.33	21.21	0%	23.33	0.733	6/1/2044	24.06	2044
7/1/2044	23.33	21.12	0%	23.33	0.733	7/1/2044	24.06	2044
8/1/2044	23.33	21.12	0%	23.33	0.733	8/1/2044	24.06	2044
9/1/2044	23.33	22.00	0%	23.33	0.733	9/1/2044	24.06	2044
10/1/2044	23.33	21.59	0%	23.33	0.733	10/1/2044	24.06	2044
11/1/2044	23.33	21.22	0%	23.33	0.733	11/1/2044	24.06	2044
12/1/2044	23.33	21.26	0%	23.33	0.733	12/1/2044	24.06	2044
1/1/2045	23.52	21.49	0%	23.52	0.733	1/1/2045	24.25	2045
2/1/2045	23.52	21.52	0%	23.52	0.733	2/1/2045	24.25	2045
3/1/2045	23.52	21.55	0%	23.52	0.744	3/1/2045	24.26	2045
4/1/2045	23.52	21.58	0%	23.52	0.744	4/1/2045	24.26	2045
5/1/2045	23.52	21.61	0%	23.52	0.744	5/1/2045	24.26	2045
6/1/2045	23.52	21.64	0%	23.52	0.744	6/1/2045	24.26	2045
7/1/2045	23.52	21.54	0%	23.52	0.744	7/1/2045	24.26	2045
8/1/2045	23.52	21.54	0%	23.52	0.744	8/1/2045	24.26	2045
9/1/2045	23.52	22.44	0%	23.52	0.744	9/1/2045	24.26	2045
10/1/2045	23.52	22.02	0%	23.52	0.744	10/1/2045	24.26	2045
11/1/2045	23.52	21.65	0%	23.52	0.744	11/1/2045	24.26	2045
12/1/2045	23.52	21.69	0%	23.52	0.744	12/1/2045	24.26	2045
1/1/2046	24.12	21.92	0%	24.12	0.744	1/1/2046	24.86	2046
2/1/2046	24.12	21.95	0%	24.12	0.744	2/1/2046	24.86	2046
3/1/2046	24.12	21.98	0%	24.12	0.755	3/1/2046	24.87	2046
4/1/2046	24.12	22.01	0%	24.12	0.755	4/1/2046	24.87	2046
5/1/2046	24.12	22.04	0%	24.12	0.755	5/1/2046	24.87	2046
6/1/2046	24.12	22.07	0%	24.12	0.755	6/1/2046	24.87	2046
7/1/2046	24.12	21.97	0%	24.12	0.755	7/1/2046	24.87	2046
8/1/2046	24.12	21.97	0%	24.12	0.755	8/1/2046	24.87	2046
9/1/2046	24.12	22.89	0%	24.12	0.755	9/1/2046	24.87	2046
10/1/2046	24.12	22.46	0%	24.12	0.755	10/1/2046	24.87	2046
11/1/2046	24.12	22.08	0%	24.12	0.755	11/1/2046	24.87	2046
12/1/2046	24.12	22.12	0%	24.12	0.755	12/1/2046	24.87	2046
1/1/2047	24.73	22.36	0%	24.73	0.755	1/1/2047	25.48	2047
2/1/2047	24.73	22.39	0%	24.73	0.755	2/1/2047	25.48	2047
3/1/2047	24.73	22.42	0%	24.73	0.766	3/1/2047	25.50	2047
4/1/2047	24.73	22.45	0%	24.73	0.766	4/1/2047	25.50	2047
5/1/2047	24.73	22.48	0%	24.73	0.766	5/1/2047	25.50	2047
6/1/2047	24.73	22.51	0%	24.73	0.766	6/1/2047	25.50	2047
7/1/2047	24.73	22.41	0%	24.73	0.766	7/1/2047	25.50	2047
8/1/2047	24.73	22.41	0%	24.73	0.766	8/1/2047	25.50	2047
9/1/2047	24.73	23.35	0%	24.73	0.766	9/1/2047	25.50	2047
10/1/2047	24.73	22.91	0%	24.73	0.766	10/1/2047	25.50	2047
11/1/2047	24.73	22.52	0%	24.73	0.766	11/1/2047	25.50	2047
12/1/2047	24.73	22.57	0%	24.73	0.766	12/1/2047	25.50	2047
1/1/2048	24.91	22.81	0%	24.91	0.766	1/1/2048	25.67	2048

2/1/2048	24.91	22.84	0%	24.91	0.766	2/1/2048	25.67	2048
3/1/2048	24.91	22.87	0%	24.91	0.778	3/1/2048	25.68	2048
4/1/2048	24.91	22.90	0%	24.91	0.778	4/1/2048	25.68	2048
5/1/2048	24.91	22.93	0%	24.91	0.778	5/1/2048	25.68	2048
6/1/2048	24.91	22.96	0%	24.91	0.778	6/1/2048	25.68	2048
7/1/2048	24.91	22.86	0%	24.91	0.778	7/1/2048	25.68	2048
8/1/2048	24.91	22.86	0%	24.91	0.778	8/1/2048	25.68	2048
9/1/2048	24.91	23.81	0%	24.91	0.778	9/1/2048	25.68	2048
10/1/2048	24.91	23.37	0%	24.91	0.778	10/1/2048	25.68	2048
11/1/2048	24.91	22.97	0%	24.91	0.778	11/1/2048	25.68	2048
12/1/2048	24.91	23.02	0%	24.91	0.778	12/1/2048	25.68	2048
1/1/2049	25.53	23.27	0%	25.53	0.778	1/1/2049	26.31	2049
2/1/2049	25.53	23.30	0%	25.53	0.778	2/1/2049	26.31	2049
3/1/2049	25.53	23.33	0%	25.53	0.790	3/1/2049	26.32	2049
4/1/2049	25.53	23.36	0%	25.53	0.790	4/1/2049	26.32	2049
5/1/2049	25.53	23.39	0%	25.53	0.790	5/1/2049	26.32	2049
6/1/2049	25.53	23.42	0%	25.53	0.790	6/1/2049	26.32	2049
7/1/2049	25.53	23.32	0%	25.53	0.790	7/1/2049	26.32	2049
8/1/2049	25.53	23.32	0%	25.53	0.790	8/1/2049	26.32	2049
9/1/2049	25.53	24.29	0%	25.53	0.790	9/1/2049	26.32	2049
10/1/2049	25.53	23.83	0%	25.53	0.790	10/1/2049	26.32	2049
11/1/2049	25.53	23.43	0%	25.53	0.790	11/1/2049	26.32	2049
12/1/2049	25.53	23.48	0%	25.53	0.790	12/1/2049	26.32	2049
1/1/2050	25.53	23.73	0%	25.53	0.790	1/1/2050	26.32	2050
2/1/2050	25.53	23.76	0%	25.53	0.790	2/1/2050	26.32	2050
3/1/2050	25.53	23.79	0%	25.53	0.801	3/1/2050	26.34	2050
4/1/2050	25.53	23.83	0%	25.53	0.801	4/1/2050	26.34	2050
5/1/2050	25.53	23.86	0%	25.53	0.801	5/1/2050	26.34	2050
6/1/2050	25.53	23.89	0%	25.53	0.801	6/1/2050	26.34	2050
7/1/2050	25.53	23.78	0%	25.53	0.801	7/1/2050	26.34	2050
8/1/2050	25.53	23.78	0%	25.53	0.801	8/1/2050	26.34	2050
9/1/2050	25.53	24.77	0%	25.53	0.801	9/1/2050	26.34	2050
10/1/2050	25.53	24.31	0%	25.53	0.801	10/1/2050	26.34	2050
11/1/2050	25.53	23.90	0%	25.53	0.801	11/1/2050	26.34	2050
12/1/2050	25.53	23.95	0%	25.53	0.801	12/1/2050	26.34	2050


All
Count 8760
Sum Proportion 2.28%
Sum Value 0.0000
Min Proportion 0.0000
Min Value 0.0000
Q3 10511
Q3 10511
Alpha
Count 8760
Min Proportion 0.0000
Q3 10511
Delta Fuel
Count 8760
Sum Proportion 0.0000
Sum Value 0.0000
Min Proportion 0.0000
Min Value 0.0000
2000 2.4101
2001 2.4753
2002 2.5404
2003 3.2850
2004 3.3501
2005 4.1601
2006 4.2252
2007 4.2904
2008 5.0037
2009 5.0688
2010 5.8788
2011 7.1283
2012 7.1934
2013 7.9064
2014 7.9715
2015 8.0378
2016 8.8478
2017 8.9129
2018 9.2681
2019 10.0781
2020 10.7431
2021 11.5532
2022 11.6183
2023 12.4284
2024 12.4935
2025 13.3035
2026 13.3686
2027 14.1787
2028 14.2438
2029 15.0538
2030 15.1189
2031 15.9290
2032 15.9941
2033 16.8041
2034 16.8692
2035 17.6793
2036 17.7444
2037 18.5544
2038 18.6195
2039 19.4296
2040 19.4947
2041 20.3047
2042 20.3698
2043 21.1799
2044 21.2450
2045 22.0550
2046 22.1201
2047 22.9302
2048 22.9953
2049 23.8053
2050 23.8704
Q3 10511
Average Variable Generation MWh/Hour
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Average Variable Generation MWh/Hour Delivered
Average MWh/Hour Delivered
Average Variable Generation MWh/Hour Curtailed
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Average Variable Generation MWh/Hour Delivered and Curtailed
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Average Variable Generation MWh/Hour Exported
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Average Variable Generation MWh/Hour Imported
Average MWh/Hour Imported
Average Variable Generation MWh/Hour Net Imported
Average MWh/Hour Net Imported
Average Variable Generation MWh/Hour Net Exported
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Average Variable Generation MWh/Hour Net Imported and Curtailed
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Average Variable Generation MWh/Hour Net Imported and Exported and Curtailed
Average MWh/Hour Net Imported and Exported and Curtailed
Month
Jan Feb Mar Apr May Jun Jul Aug Sep Oct Nov Dec

HENRY HUB DATA

year	Date	Henry Hub	NYMEX	Blend NYMEX/ Fundamental (%)	Blend NYMEX/ Fundamental ($)
2019	1/1/2019	$3.07	$3.11	100%	3.11
2019	2/1/2019	$2.65	$2.69	100%	2.69
2019	3/1/2019	$2.90	$2.95	100%	2.95
2019	4/1/2019	$2.59	$2.65	100%	2.65
2019	5/1/2019	$2.59	$2.64	100%	2.64
2019	6/1/2019	$2.57	$2.40	100%	2.40
2019	7/1/2019	$2.64	$2.37	100%	2.37
2019	8/1/2019	$2.06	$2.22	100%	2.22
2019	9/1/2019	$2.11	$2.56	100%	2.56
2019	10/1/2019	$2.04	$2.74	100%	2.74
2019	11/1/2019	$2.05	$2.30	100%	2.30
2019	12/1/2019	$2.15	$2.50	100%	2.50
2020	1/1/2020	$2.15	$2.61	100%	2.61
2020	2/1/2020	$2.20	$2.58	100%	2.58
2020	3/1/2020	$2.10	$2.46	100%	2.46
2020	4/1/2020	$1.93	$2.25	100%	2.25
2020	5/1/2020	$1.72	$2.23	100%	2.23
2020	6/1/2020	$1.67	$2.28	100%	2.28
2020	7/1/2020	$1.84	$2.33	100%	2.33
2020	8/1/2020	$2.04	$2.34	100%	2.34
2020	9/1/2020	$2.20	$2.32	100%	2.32
2020	10/1/2020	$2.22	$2.34	100%	2.34
2020	11/1/2020	$2.21	$2.41	100%	2.41
2020	12/1/2020	$2.28	$2.58	100%	2.58
2021	1/1/2021	$2.46	$2.70	97%	2.69
2021	2/1/2021	$2.52	$2.66	95%	2.65
2021	3/1/2021	$2.43	$2.55	92%	2.54
2021	4/1/2021	$2.37	$2.28	89%	2.29
2021	5/1/2021	$2.45	$2.26	88%	2.28
2021	6/1/2021	$2.46	$2.29	84%	2.32
2021	7/1/2021	$2.48	$2.33	81%	2.36
2021	8/1/2021	$2.53	$2.34	78%	2.38
2021	9/1/2021	$2.56	$2.33	76%	2.38
2021	10/1/2021	$2.55	$2.35	73%	2.41
2021	11/1/2021	$2.62	$2.42	70%	2.48
2021	12/1/2021	$2.74	$2.60	68%	2.65
2022	1/1/2022	$2.80	$2.73	65%	2.75
2022	2/1/2022	$2.82	$2.70	62%	2.75
2022	3/1/2022	$2.83	$2.60	59%	2.69
2022	4/1/2022	$2.85	$2.34	57%	2.56
2022	5/1/2022	$2.87	$2.32	54%	2.57
2022	6/1/2022	$2.90	$2.36	51%	2.62
2022	7/1/2022	$2.97	$2.40	49%	2.69
2022	8/1/2022	$3.00	$2.41	46%	2.73
2022	9/1/2022	$3.00	$2.40	43%	2.74
2022	10/1/2022	$2.99	$2.43	41%	2.76
2022	11/1/2022	$3.08	$2.49	38%	2.86
2022	12/1/2022	$3.18	$2.67	35%	3.00
2023	1/1/2023	$3.22	$2.80	32%	3.09
2023	2/1/2023	$3.25	$2.77	30%	3.11
2023	3/1/2023	$3.19	$2.66	27%	3.04
2023	4/1/2023	$3.15	$2.40	24%	2.96
2023	5/1/2023	$3.16	$2.39	22%	3.00
2023	6/1/2023	$3.20	$2.43	19%	3.05
2023	7/1/2023	$3.31	$2.47	16%	3.17
2023	8/1/2023	$3.32	$2.48	14%	3.22
2023	9/1/2023	$3.30	$2.48	11%	3.21
2023	10/1/2023	$3.26	$2.51	8%	3.22
2023	11/1/2023	$3.47	$2.58	5%	3.42
2023	12/1/2023	$3.53	$2.76	3%	3.51
2024	1/1/2024	$3.61	$2.89	0%	3.61
2024	2/1/2024	$3.63	$2.86	0%	3.63
2024	3/1/2024	$3.62	$2.74	0%	3.62
2024	4/1/2024	$3.59	$2.50	0%	3.59
2024	5/1/2024	$3.61	$2.48	0%	3.61
2024	6/1/2024	$3.68	$2.51	0%	3.68
2024	7/1/2024	$3.81	$2.54	0%	3.81
2024	8/1/2024	$3.84	$2.54	0%	3.84
2024	9/1/2024	$3.80	$2.54	0%	3.80
2024	10/1/2024	$3.77	$2.56	0%	3.77
2024	11/1/2024	$3.93	$2.62	0%	3.93
2024	12/1/2024	$4.08	$2.80	0%	4.08
2025	1/1/2025	$4.14	$2.93	0%	4.14
2025	2/1/2025	$4.16	$2.90	0%	4.16
2025	3/1/2025	$4.08	$2.80	0%	4.08
2025	4/1/2025	$4.01	$2.57	0%	4.02
2025	5/1/2025	$4.05	$2.56	0%	4.05
2025	6/1/2025	$4.08	$2.59	0%	4.08
2025	7/1/2025	$4.29	$2.62	0%	4.29
2025	8/1/2025	$4.33	$2.63	0%	4.33
2025	9/1/2025	$3.95	$2.62	0%	3.95
2025	10/1/2025	$3.93	$2.65	0%	3.93
2025	11/1/2025	$4.04	$2.71	0%	4.04
2025	12/1/2025	$4.23	$2.87	0%	4.23
2026	1/1/2026	$4.49	$2.99	0%	4.49
2026	2/1/2026	$4.51	$2.96	0%	4.51
2026	3/1/2026	$4.40	$2.86	0%	4.40
2026	4/1/2026	$4.33	$2.64	0%	4.33
2026	5/1/2026	$4.36	$2.63	0%	4.36
2026	6/1/2026	$4.42	$2.66	0%	4.42
2026	7/1/2026	$4.73	$2.79	0%	4.73
2026	8/1/2026	$4.77	$2.71	0%	4.77
2026	9/1/2026	$4.58	$2.71	0%	4.58
2026	10/1/2026	$4.51	$2.73	0%	4.51
2026	11/1/2026	$4.58	$2.79	0%	4.58
2026	12/1/2026	$4.79	$2.97	0%	4.79
2027	1/1/2027	$4.93	$3.09	0%	4.93
2027	2/1/2027	$4.96	$3.07	0%	4.96
2027	3/1/2027	$4.89	$2.99	0%	4.89
2027	4/1/2027	$4.71	$2.76	0%	4.71
2027	5/1/2027	$4.74	$2.75	0%	4.74
2027	6/1/2027	$4.83	$2.78	0%	4.83
2027	7/1/2027	$5.19	$2.81	0%	5.19
2027	8/1/2027	$5.23	$2.83	0%	5.23
2027	9/1/2027	$5.18	$2.83	0%	5.18
2027	10/1/2027	$4.94	$2.86	0%	4.94
2027	11/1/2027	$5.01	$2.92	0%	5.01
2027	12/1/2027	$5.26	$3.08	0%	5.26
2028	1/1/2028	$5.44	$3.20	0%	5.44
2028	2/1/2028	$5.48	$3.16	0%	5.48
2028	3/1/2028	$5.35	$3.10	0%	5.35
2028	4/1/2028	$5.31	$2.84	0%	5.31
2028	5/1/2028	$5.34	$2.82	0%	5.34
2028	6/1/2028	$5.59	$2.85	0%	5.59
2028	7/1/2028	$5.58	$2.89	0%	5.58
2028	8/1/2028	$5.62	$2.93	0%	5.62
2028	9/1/2028	$5.67	$2.94	0%	5.67
2028	10/1/2028	$5.62	$2.98	0%	5.62
2028	11/1/2028	$5.68	$3.05	0%	5.68
2028	12/1/2028	$6.00	$3.20	0%	6.00
2029	1/1/2029	$6.14	$3.33	0%	6.14
2029	2/1/2029	$6.18	$3.29	0%	6.18
2029	3/1/2029	$5.89	$3.23	0%	5.89
2029	4/1/2029	$5.91	$2.93	0%	5.91
2029	5/1/2029	$6.00	$2.91	0%	6.00
2029	6/1/2029	$6.16	$2.94	0%	6.16
2029	7/1/2029	$5.80	$2.98	0%	5.80
2029	8/1/2029	$5.84	$3.02	0%	5.84
2029	9/1/2029	$6.00	$3.04	0%	6.00
2029	10/1/2029	$5.99	$3.08	0%	5.99
2029	11/1/2029	$5.86	$3.16	0%	5.86
2029	12/1/2029	$6.13	$3.31	0%	6.13
2030	1/1/2030	$6.18	$3.44	0%	6.18
2030	2/1/2030	$6.22	$3.41	0%	6.22
2030	3/1/2030	$6.07	$3.34	0%	6.07
2030	4/1/2030	$6.03	$3.04	0%	6.03
2030	5/1/2030	$6.06	$3.01	0%	6.06
2030	6/1/2030	$6.16	$3.05	0%	6.16
2030	7/1/2030	$6.60	$3.09	0%	6.60
2030	8/1/2030	$6.65	$3.13	0%	6.65
2030	9/1/2030	$6.55	$3.14	0%	6.55
2030	10/1/2030	$6.25	$3.19	0%	6.25
2030	11/1/2030	$6.14	$3.26	0%	6.14
2030	12/1/2030	$6.44	$3.42	0%	6.44
2031	1/1/2031	$6.57	$3.55	0%	6.57
2031	2/1/2031	$6.62	$3.51	0%	6.62
2031	3/1/2031	$6.48	$3.45	0%	6.48
2031	4/1/2031	$6.43	$3.15	0%	6.43
2031	5/1/2031	$6.47	$3.12	0%	6.47
2031	6/1/2031	$6.56	$3.16	0%	6.56
2031	7/1/2031	$7.00	$3.20	0%	7.00
2031	8/1/2031	$7.07	$3.24	0%	7.07
2031	9/1/2031	$6.94	$3.25	0%	6.94
2031	10/1/2031	$6.72	$3.30	0%	6.72
2031	11/1/2031	$6.82	$3.37	0%	6.82
2031	12/1/2031	$7.05	$3.53	0%	7.05
2032	1/1/2032	$7.05	$3.68	0%	7.05
2032	2/1/2032	$7.09	$3.62	0%	7.09
2032	3/1/2032	$7.06	$3.56	0%	7.06
2032	4/1/2032	$6.84	$3.25	0%	6.84
2032	5/1/2032	$6.88	$3.22	0%	6.88
2032	6/1/2032	$6.92	$3.26	0%	6.92
2032	7/1/2032	$7.12	$3.30	0%	7.12
2032	8/1/2032	$7.18	$3.34	0%	7.18
2032	9/1/2032	$7.07	$3.36	0%	7.07
2032	10/1/2032	$7.03	$3.40	0%	7.03
2032	11/1/2032	$7.19	$3.48	0%	7.19
2032	12/1/2032	$7.21	$3.64	0%	7.21
2033	1/1/2033	$6.85	$3.82	0%	6.85
2033	2/1/2033	$6.89	$3.78	0%	6.89
2033	3/1/2033	$6.82	$3.71	0%	6.82
2033	4/1/2033	$6.82	$3.39	0%	6.82
2033	5/1/2033	$6.87	$3.36	0%	6.87
2033	6/1/2033	$6.91	$3.40	0%	6.91
2033	7/1/2033	$7.13	$3.44	0%	7.13
2033	8/1/2033	$7.19	$3.49	0%	7.19
2033	9/1/2033	$7.10	$3.50	0%	7.10
2033	10/1/2033	$7.03	$3.55	0%	7.03
2033	11/1/2033	$7.24	$3.63	0%	7.24
2033	12/1/2033	$7.49	$3.80	0%	7.49
2034	1/1/2034	$7.69	$4.06	0%	7.69
2034	2/1/2034	$7.47	$4.02	0%	7.47
2034	3/1/2034	$7.25	$3.94	0%	7.25
2034	4/1/2034	$7.17	$3.60	0%	7.17
2034	5/1/2034	$7.21	$3.57	0%	7.21
2034	6/1/2034	$7.26	$3.61	0%	7.26
2034	7/1/2034	$7.61	$3.66	0%	7.61
2034	8/1/2034	$7.67	$3.71	0%	7.67
2034	9/1/2034	$7.52	$3.72	0%	7.52
2034	10/1/2034	$7.34	$3.78	0%	7.34
2034	11/1/2034	$7.65	$3.86	0%	7.65
2034	12/1/2034	$7.92	$4.03	0%	7.92
2035	1/1/2035	$8.04	$4.35	0%	8.04
2035	2/1/2035	$8.08	$4.31	0%	8.08
2035	3/1/2035	$7.84	$4.23	0%	7.84
2035	4/1/2035	$7.48	$3.86	0%	7.48
2035	5/1/2035	$7.53	$3.83	0%	7.53
2035	6/1/2035	$7.58	$3.87	0%	7.58
2035	7/1/2035	$7.97	$3.92	0%	7.97
2035	8/1/2035	$8.02	$3.97	0%	8.02
2035	9/1/2035	$7.88	$3.99	0%	7.88
2035	10/1/2035	$7.68	$4.05	0%	7.68
2035	11/1/2035	$7.75	$4.13	0%	7.75
2035	12/1/2035	$7.96	$4.33	0%	7.96
2036	1/1/2036	$8.01	$4.70	0%	8.01
2036	2/1/2036	$8.04	$4.66	0%	8.04
2036	3/1/2036	$7.91	$4.57	0%	7.91
2036	4/1/2036	$7.60	$4.17	0%	7.60
2036	5/1/2036	$7.65	$4.14	0%	7.65
2036	6/1/2036	$7.70	$4.19	0%	7.70
2036	7/1/2036	$7.93	$4.24	0%	7.93
2036	8/1/2036	$7.99	$4.29	0%	7.99
2036	9/1/2036	$7.95	$4.31	0%	7.95
2036	10/1/2036	$7.90	$4.37	0%	7.90
2036	11/1/2036	$8.00	$4.47	0%	8.00
2036	12/1/2036	$8.37	$4.67	0%	8.37
2037	1/1/2037	$8.53	$5.06	0%	8.53
2037	2/1/2037	$8.58	$5.01	0%	8.58
2037	3/1/2037	$8.45	$4.91	0%	8.45
2037	4/1/2037	$8.21	$4.48	0%	8.21
2037	5/1/2037	$8.26	$4.45	0%	8.26
2037	6/1/2037	$8.34	$4.50	0%	8.34
2037	7/1/2037	$8.70	$4.56	0%	8.70
2037	8/1/2037	$8.76	$4.61	0%	8.76
2037	9/1/2037	$8.64	$4.64	0%	8.64
2037	10/1/2037	$8.54	$4.70	0%	8.54
2037	11/1/2037	$8.65	$4.80	0%	8.65
2037	12/1/2037	$9.01	$5.03	0%	9.01
2038	1/1/2038	$9.17	$5.40	0%	9.17
2038	2/1/2038	$9.23	$5.34	0%	9.23
2038	3/1/2038	$9.09	$5.24	0%	9.09
2038	4/1/2038	$8.78	$4.78	0%	8.78
2038	5/1/2038	$8.83	$4.75	0%	8.83
2038	6/1/2038	$8.90	$4.80	0%	8.90
2038	7/1/2038	$9.15	$4.86	0%	9.15
2038	8/1/2038	$9.21	$4.93	0%	9.21
2038	9/1/2038	$9.01	$4.95	0%	9.01
2038	10/1/2038	$8.92	$5.02	0%	8.92
2038	11/1/2038	$9.06	$5.13	0%	9.06
2038	12/1/2038	$9.39	$5.36	0%	9.39
2039	1/1/2039	$9.41	$5.76	0%	9.41
2039	2/1/2039	$9.46	$5.70	0%	9.46
2039	3/1/2039	$9.24	$5.60	0%	9.24
2039	4/1/2039	$8.64	$5.11	0%	8.64
2039	5/1/2039	$8.69	$5.07	0%	8.69
2039	6/1/2039	$8.75	$5.13	0%	8.75
2039	7/1/2039	$8.84	$5.19	0%	8.84
2039	8/1/2039	$9.60	$5.26	0%	9.60
2039	9/1/2039	$9.56	$5.28	0%	9.56
2039	10/1/2039	$9.21	$5.36	0%	9.21
2039	11/1/2039	$9.31	$5.47	0%	9.31
2039	12/1/2039	$9.60	$5.72	0%	9.60
2040	1/1/2040	$9.82	$6.14	0%	9.82
2040	2/1/2040	$9.87	$6.08	0%	9.87
2040	3/1/2040	$9.71	$5.97	0%	9.71
2040	4/1/2040	$9.39	$5.45	0%	9.39
2040	5/1/2040	$9.45	$5.41	0%	9.45
2040	6/1/2040	$9.53	$5.47	0%	9.53
2040	7/1/2040	$9.88	$5.54	0%	9.88
2040	8/1/2040	$9.94	$5.61	0%	9.94
2040	9/1/2040	$9.92	$5.64	0%	9.92
2040	10/1/2040	$9.69	$5.72	0%	9.69
2040	11/1/2040	$9.80	$5.84	0%	9.80
2040	12/1/2040	$10.13	$6.11	0%	10.13
2041	1/1/2041	$10.30	$6.58	0%	10.30
2041	2/1/2041	$10.34	$6.49	0%	10.34
2041	3/1/2041	$10.12	$6.37	0%	10.12
2041	4/1/2041	$9.75	$5.81	0%	9.75
2041	5/1/2041	$9.81	$5.77	0%	9.81
2041	6/1/2041	$9.92	$5.84	0%	9.92
2041	7/1/2041	$10.35	$5.91	0%	10.35
2041	8/1/2041	$10.41	$5.99	0%	10.41
2041	9/1/2041	$10.42	$6.01	0%	10.42
2041	10/1/2041	$10.08	$6.10	0%	10.08
2041	11/1/2041	$10.26	$6.23	0%	10.26
2041	12/1/2041	$10.55	$6.52	0%	10.55
2042	1/1/2042	$10.69	$7.00	0%	10.69
2042	2/1/2042	$10.73	$6.93	0%	10.73
2042	3/1/2042	$10.50	$6.80	0%	10.50
2042	4/1/2042	$10.21	$6.21	0%	10.21
2042	5/1/2042	$10.27	$6.16	0%	10.27
2042	6/1/2042	$10.37	$6.23	0%	10.37
2042	7/1/2042	$10.90	$6.31	0%	10.90
2042	8/1/2042	$10.97	$6.39	0%	10.97
2042	9/1/2042	$10.93	$6.42	0%	10.93
2042	10/1/2042	$10.56	$6.51	0%	10.56
2042	11/1/2042	$10.62	$6.65	0%	10.62
2042	12/1/2042	$10.95	$6.96	0%	10.95
2043	1/1/2043	$11.16	$7.47	0%	11.16
2043	2/1/2043	$11.19	$7.40	0%	11.19
2043	3/1/2043	$10.97	$7.26	0%	10.97
2043	4/1/2043	$10.59	$6.62	0%	10.59
2043	5/1/2043	$10.66	$6.58	0%	10.66
2043	6/1/2043	$10.74	$6.65	0%	10.74
2043	7/1/2043	$11.26	$6.73	0%	11.26
2043	8/1/2043	$11.33	$6.82	0%	11.33
2043	9/1/2043	$11.37	$6.85	0%	11.37
2043	10/1/2043	$10.94	$6.95	0%	10.94
2043	11/1/2043	$11.04	$7.10	0%	11.04
2043	12/1/2043	$11.39	$7.42	0%	11.39
2044	1/1/2044	$11.21	$7.97	0%	11.21
2044	2/1/2044	$11.26	$7.89	0%	11.26
2044	3/1/2044	$11.02	$7.75	0%	11.02
2044	4/1/2044	$10.82	$7.07	0%	10.82
2044	5/1/2044	$10.89	$7.02	0%	10.89
2044	6/1/2044	$10.95	$7.10	0%	10.95
2044	7/1/2044	$11.45	$7.19	0%	11.45
2044	8/1/2044	$11.53	$7.28	0%	11.53
2044	9/1/2044	$11.50	$7.31	0%	11.50
2044	10/1/2044	$11.21	$7.41	0%	11.21
2044	11/1/2044	$11.39	$7.58	0%	11.39
2044	12/1/2044	$11.74	$7.92	0%	11.74
2045	1/1/2045	$11.80	$8.51	0%	11.80
2045	2/1/2045	$11.87	$8.42	0%	11.87
2045	3/1/2045	$11.68	$8.27	0%	11.68
2045	4/1/2045	$11.41	$7.54	0%	11.41
2045	5/1/2045	$11.47	$7.49	0%	11.47
2045	6/1/2045	$11.54	$7.57	0%	11.54
2045	7/1/2045	$12.08	$7.67	0%	12.08
2045	8/1/2045	$12.15	$7.77	0%	12.15
2045	9/1/2045	$12.17	$7.80	0%	12.17
2045	10/1/2045	$11.81	$7.91	0%	11.81
2045	11/1/2045	$12.00	$8.08	0%	12.00
2045	12/1/2045	$12.36	$8.46	0%	12.36
2046	1/1/2046	$12.61	$9.08	0%	12.61
2046	2/1/2046	$12.65	$8.99	0%	12.65
2046	3/1/2046	$12.35	$8.82	0%	12.35
2046	4/1/2046	$12.01	$8.05	0%	12.01
2046	5/1/2046	$12.06	$7.99	0%	12.06
2046	6/1/2046	$12.13	$8.08	0%	12.13
2046	7/1/2046	$12.75	$8.19	0%	12.75
2046	8/1/2046	$12.83	$8.29	0%	12.83
2046	9/1/2046	$12.79	$8.33	0%	12.79
2046	10/1/2046	$12.38	$8.44	0%	12.38
2046	11/1/2046	$12.50	$8.63	0%	12.50
2046	12/1/2046	$12.83	$9.03	0%	12.83
2047	1/1/2047	$13.17	$9.69	0%	13.17
2047	2/1/2047	$13.19	$9.59	0%	13.19
2047	3/1/2047	$12.72	$9.42	0%	12.72
2047	4/1/2047	$12.42	$8.59	0%	12.42
2047	5/1/2047	$12.47	$8.19	0%	12.47
2047	6/1/2047	$12.55	$8.25	0%	12.55
2047	7/1/2047	$13.16	$8.39	0%	13.16
2047	8/1/2047	$13.24	$8.50	0%	13.24
2047	9/1/2047	$13.24	$8.53	0%	13.24
2047	10/1/2047	$13.00	$8.66	0%	13.00
2047	11/1/2047	$13.12	$8.84	0%	13.12
2047	12/1/2047	$13.17	$9.25	0%	13.17
2048	1/1/2048	$13.31	$9.93	0%	13.31
2048	2/1/2048	$13.37	$9.83	0%	13.37
2048	3/1/2048	$13.07	$9.65	0%	13.07
2048	4/1/2048	$12.88	$8.81	0%	12.88
2048	5/1/2048	$12.96	$8.40	0%	12.96
2048	6/1/2048	$13.09	$8.49	0%	13.09
2048	7/1/2048	$13.88	$8.60	0%	13.88
2048	8/1/2048	$13.98	$8.71	0%	13.98
2048	9/1/2048	$14.01	$8.75	0%	14.01
2048	10/1/2048	$13.44	$8.97	0%	13.44
2048	11/1/2048	$13.65	$9.07	0%	13.65
2048	12/1/2048	$14.04	$9.48	0%	14.04
2049	1/1/2049	$14.14	$10.18	0%	14.14
2049	2/1/2049	$14.16	$10.08	0%	14.16
2049	3/1/2049	$14.06	$9.89	0%	14.06
2049	4/1/2049	$13.91	$9.03	0%	13.91
2049	5/1/2049	$13.38	$8.61	0%	13.38
2049	6/1/2049	$13.45	$8.70	0%	13.45
2049	7/1/2049	$13.77	$8.82	0%	13.77
2049	8/1/2049	$13.85	$8.93	0%	13.85
2049	9/1/2049	$13.60	$8.97	0%	13.60
2049	10/1/2049	$13.36	$9.09	0%	13.36
2049	11/1/2049	$13.87	$9.29	0%	13.87
2049	12/1/2049	$14.44	$9.72	0%	14.44
2050	1/1/2050	$14.71	$10.43	0%	14.71
2050	2/1/2050	$14.75	$10.33	0%	14.75
2050	3/1/2050	$14.30	$10.14	0%	14.30
2050	4/1/2050	$13.59	$9.25	0%	13.59
2050	5/1/2050	$13.66	$8.82	0%	13.66
2050	6/1/2050	$13.73	$8.92	0%	13.73
2050	7/1/2050	$14.16	$9.04	0%	14.16
2050	8/1/2050	$14.25	$9.15	0%	14.25
2050	9/1/2050	$14.21	$9.19	0%	14.21
2050	10/1/2050	$13.75	$9.32	0%	13.75
2050	11/1/2050	$14.12	$9.52	0%	14.12
2050	12/1/2050	$14.60	$9.96	0%	14.60

High Commodity Fundamentals

Historical Henry Hub
NYMEX - Close 4/15/19
NYMEX - Close 10/16/19
Grow at inflation of same month previous year
Short Market and Blend to Fundamentals
Short Market and Blend to High Commmodity pricing

US Gas Prices Nominal $

	Henry Hub	Transco Z4	IGT 23 Gas Prices	Transco Z4	IGT 23 Basis Differentials
Jan-19	3.07	$3.02	3.03	($0.06)	($0.046)
Feb-19	2.65	$2.62	2.63	($0.03)	($0.019)
Mar-19	2.68	$2.55	2.60	($0.05)	($0.003)
Apr-19	2.55	$2.47	2.50	($0.03)	($0.001)
May-19	2.59	$2.59	2.60	($0.00)	$0.005
Jun-19	2.57	$2.57	2.60	$0.00	$0.037
Jul-19	2.64	$2.65	2.69	$0.01	$0.048
Aug-19	2.66	$2.68	2.72	$0.01	$0.056
Sep-19	2.11	$2.11	2.13	$0.00	$0.016
Oct-19	2.04	$2.01	2.04	($0.03)	$0.010
Nov-19	2.09	$2.07	2.10	($0.02)	$0.012
Dec-19	2.15	$2.15	2.18	($0.01)	$0.023
Jan-20	2.06	$2.05	2.09	($0.01)	$0.035
Feb-20	2.05	$2.04	2.09	($0.02)	$0.024
Mar-20	1.97	$1.95	1.96	($0.02)	($0.020)
Apr-20	1.81	$1.76	1.79	($0.05)	($0.019)
May-20	1.61	$1.56	1.62	($0.05)	$0.005
Jun-20	1.57	$1.53	1.60	($0.04)	$0.026
Jul-20	1.72	$1.70	1.77	($0.03)	$0.048
Aug-20	1.91	$1.91	1.97	($0.01)	$0.055
Sep-20	2.06	$2.02	2.08	($0.04)	$0.012
Oct-20	2.09	$2.02	2.10	($0.06)	$0.016
Nov-20	2.08	$2.05	2.10	($0.03)	$0.025
Dec-20	2.14	$2.12	2.17	($0.02)	$0.024
Jan-21	2.26	$2.19	2.24	($0.01)	$0.038
Feb-21	2.24	$2.22	2.28	($0.03)	$0.033
Mar-21	2.16	$2.14	2.14	($0.03)	($0.015)
Apr-21	2.11	$2.03	2.08	($0.07)	($0.021)
May-21	2.15	$2.08	2.15	($0.07)	$0.005
Jun-21	2.18	$2.13	2.21	($0.05)	$0.025
Jul-21	2.23	$2.17	2.25	($0.04)	$0.047
Aug-21	2.24	$2.22	2.30	($0.02)	$0.058
Sep-21	2.27	$2.22	2.29	($0.05)	$0.011
Oct-21	2.27	$2.21	2.29	($0.06)	$0.018
Nov-21	2.33	$2.30	2.36	($0.04)	$0.027
Dec-21	2.44	$2.42	2.48	($0.02)	$0.038
Jan-22	2.46	$2.44	2.50	($0.02)	$0.041
Feb-22	2.47	$2.44	2.51	($0.03)	$0.036
Mar-22	2.48	$2.45	2.46	($0.03)	($0.013)
Apr-22	2.50	$2.43	2.49	($0.07)	($0.014)
May-22	2.52	$2.45	2.52	($0.07)	$0.007
Jun-22	2.54	$2.50	2.58	($0.04)	$0.034
Jul-22	2.61	$2.58	2.67	($0.02)	$0.059
Aug-22	2.63	$2.62	2.70	($0.02)	$0.066
Sep-22	2.63	$2.58	2.65	($0.05)	$0.021
Oct-22	2.62	$2.56	2.65	($0.06)	$0.024
Nov-22	2.70	$2.67	2.74	($0.03)	$0.034
Dec-22	2.79	$2.78	2.84	($0.01)	$0.044
Jan-23	2.81	$2.79	2.86	($0.02)	$0.052
Feb-23	2.83	$2.79	2.87	($0.03)	$0.047
Mar-23	2.77	$2.74	2.77	($0.03)	($0.003)
Apr-23	2.73	$2.66	2.72	($0.07)	($0.008)
May-23	2.75	$2.68	2.76	($0.06)	$0.016
Jun-23	2.78	$2.73	2.82	($0.05)	$0.042
Jul-23	2.87	$2.83	2.94	($0.04)	$0.068
Aug-23	2.89	$2.87	2.97	($0.03)	$0.076
Sep-23	2.87	$2.82	2.90	($0.05)	$0.029
Oct-23	2.85	$2.79	2.88	($0.06)	$0.030
Nov-23	3.01	$2.97	3.05	($0.05)	$0.037
Dec-23	3.07	$3.05	3.12	($0.02)	$0.053
Jan-24	3.10	$3.07	3.15	($0.03)	$0.058
Feb-24	3.12	$3.07	3.17	($0.04)	$0.050
Mar-24	3.10	$3.06	3.10	($0.05)	($0.002)
Apr-24	3.08	$3.00	3.08	($0.09)	($0.007)
May-24	3.16	$3.02	3.12	($0.08)	$0.017
Jun-24	3.18	$3.10	3.21	($0.08)	$0.046
Jul-24	3.27	$3.22	3.34	($0.04)	$0.077
Aug-24	3.30	$3.27	3.37	($0.03)	$0.077
Sep-24	3.26	$3.20	3.31	($0.06)	$0.047
Oct-24	3.24	$3.18	3.28	($0.06)	$0.040
Nov-24	3.37	$3.33	3.42	($0.05)	$0.044
Dec-24	3.60	$3.46	3.56	($0.14)	$0.056
Jan-25	3.52	$3.49	3.58	($0.03)	$0.061
Feb-25	3.54	$3.50	3.60	($0.04)	$0.055
Mar-25	3.48	$3.43	3.47	($0.05)	($0.001)
Apr-25	3.42	$3.33	3.41	($0.10)	($0.011)
May-25	3.44	$3.35	3.46	($0.09)	$0.016
Jun-25	3.47	$3.41	3.52	($0.06)	$0.054
Jul-25	3.65	$3.61	3.73	($0.04)	$0.078
Aug-25	3.68	$3.66	3.76	($0.03)	$0.078
Sep-25	3.37	$3.31	3.41	($0.06)	$0.045
Oct-25	3.35	$3.27	3.38	($0.08)	$0.035
Nov-25	3.44	$3.38	3.48	($0.07)	$0.036
Dec-25	3.60	$3.55	3.65	($0.05)	$0.051
Jan-26	3.62	$3.58	3.68	($0.05)	$0.057
Feb-26	3.64	$3.59	3.70	($0.05)	$0.053
Mar-26	3.58	$3.50	3.55	($0.08)	($0.003)
Apr-26	3.50	$3.41	3.50	($0.09)	($0.001)
May-26	3.52	$3.43	3.54	($0.09)	$0.022
Jun-26	3.57	$3.51	3.62	($0.06)	$0.053
Jul-26	3.82	$3.78	3.90	($0.04)	$0.077
Aug-26	3.85	$3.81	3.93	($0.04)	$0.078
Sep-26	3.76	$3.64	3.74	($0.08)	$0.041
Oct-26	3.64	$3.55	3.68	($0.09)	$0.034
Nov-26	3.70	$3.64	3.74	($0.06)	$0.042
Dec-26	3.87	$3.82	3.92	($0.05)	$0.054
Jan-27	3.89	$3.85	3.95	($0.04)	$0.062
Feb-27	3.91	$3.86	3.97	($0.05)	$0.057
Mar-27	3.85	$3.79	3.85	($0.06)	($0.002)
Apr-27	3.71	$3.62	3.71	($0.10)	($0.002)
May-27	3.74	$3.64	3.78	($0.10)	$0.021
Jun-27	3.81	$3.75	3.86	($0.06)	$0.051
Jul-27	4.10	$4.05	4.17	($0.04)	$0.079
Aug-27	4.12	$4.09	4.21	($0.03)	$0.082
Sep-27	4.08	$4.01	4.12	($0.07)	$0.043
Oct-27	3.89	$3.80	3.93	($0.09)	$0.038
Nov-27	3.96	$3.89	4.00	($0.06)	$0.043
Dec-27	4.14	$4.10	4.20	($0.04)	$0.054
Jan-28	4.17	$4.14	4.23	($0.03)	$0.063
Feb-28	4.20	$4.14	4.24	($0.06)	$0.047
Mar-28	4.10	$4.03	4.10	($0.07)	($0.002)
Apr-28	4.07	$3.96	4.06	($0.11)	($0.006)
May-28	4.16	$4.00	4.12	($0.10)	$0.024
Jun-28	4.28	$4.22	4.34	($0.06)	$0.059
Jul-28	4.27	$4.24	4.37	($0.04)	$0.091
Aug-28	4.31	$4.28	4.40	($0.03)	$0.089
Sep-28	4.35	$4.29	4.40	($0.06)	$0.048
Oct-28	4.31	$4.22	4.35	($0.09)	$0.044
Nov-28	4.35	$4.28	4.40	($0.07)	$0.046
Dec-28	4.69	$4.54	4.65	($0.05)	$0.054
Jan-29	4.64	$4.61	4.72	($0.03)	$0.075
Feb-29	4.67	$4.62	4.74	($0.05)	$0.068
Mar-29	4.45	$4.39	4.46	($0.06)	$0.007
Apr-29	4.47	$4.36	4.47	($0.11)	$0.002
May-29	4.53	$4.43	4.56	($0.10)	$0.027
Jun-29	4.65	$4.58	4.72	($0.07)	$0.062
Jul-29	4.39	$4.34	4.48	($0.05)	$0.091
Aug-29	4.42	$4.38	4.52	($0.03)	$0.098
Sep-29	4.54	$4.46	4.59	($0.07)	$0.053
Oct-29	4.52	$4.43	4.57	($0.10)	$0.040
Nov-29	4.43	$4.39	4.49	($0.04)	$0.063
Dec-29	4.63	$4.59	4.70	($0.04)	$0.062
Jan-30	4.67	$4.64	4.74	($0.03)	$0.075
Feb-30	4.69	$4.65	4.76	($0.04)	$0.069
Mar-30	4.58	$4.53	4.59	($0.05)	$0.004
Apr-30	4.55	$4.43	4.54	($0.12)	($0.008)
May-30	4.58	$4.48	4.61	($0.10)	$0.029
Jun-30	4.65	$4.61	4.72	($0.05)	$0.069
Jul-30	4.98	$4.96	5.09	($0.02)	$0.104
Aug-30	5.02	$5.02	5.13	$0.00	$0.113
Sep-30	4.98	$4.89	5.03	($0.09)	$0.056
Oct-30	4.72	$4.64	4.77	($0.08)	$0.053
Nov-30	4.64	$4.59	4.69	($0.04)	$0.056
Dec-30	4.88	$4.82	4.93	($0.04)	$0.054
Jan-31	4.89	$4.85	4.99	($0.04)	$0.098
Feb-31	4.92	$4.87	5.01	($0.05)	$0.092
Mar-31	4.83	$4.76	4.84	($0.06)	$0.019
Apr-31	4.78	$4.66	4.78	($0.13)	$0.000
May-31	4.81	$4.71	4.87	($0.10)	$0.055
Jun-31	4.88	$4.82	4.96	($0.06)	$0.082
Jul-31	5.21	$5.17	5.33	($0.03)	$0.116
Aug-31	5.26	$5.22	5.40	($0.04)	$0.139
Sep-31	5.16	$5.11	5.25	($0.05)	$0.086
Oct-31	5.05	$4.92	5.09	($0.08)	$0.082
Nov-31	5.07	$5.01	5.14	($0.06)	$0.066
Dec-31	5.26	$5.20	5.33	($0.05)	$0.082
Jan-32	5.28	$5.23	5.39	($0.05)	$0.106
Feb-32	5.31	$5.25	5.39	($0.06)	$0.077
Mar-32	5.29	$5.22	5.34	($0.07)	$0.050
Apr-32	5.13	$5.00	5.15	($0.13)	$0.026
May-32	5.16	$5.05	5.22	($0.10)	$0.069
Jun-32	5.19	$5.13	5.28	($0.05)	$0.095
Jul-32	5.33	$5.29	5.47	($0.04)	$0.136
Aug-32	5.38	$5.35	5.54	($0.03)	$0.159
Sep-32	5.30	$5.25	5.39	($0.05)	$0.091
Oct-32	5.27	$5.19	5.35	($0.08)	$0.088
Nov-32	5.39	$5.28	5.44	($0.11)	$0.053
Dec-32	5.56	$5.33	5.47	($0.08)	$0.072
Jan-33	5.14	$5.07	5.23	($0.06)	$0.093
Feb-33	5.17	$5.10	5.26	($0.07)	$0.091
Mar-33	5.12	$5.02	5.14	($0.10)	$0.022
Apr-33	5.12	$4.98	5.14	($0.14)	$0.016
May-33	5.15	$5.02	5.19	($0.14)	$0.032
Jun-33	5.19	$5.11	5.27	($0.08)	$0.080
Jul-33	5.39	$5.31	5.47	($0.04)	$0.119
Aug-33	5.39	$5.37	5.52	($0.02)	$0.127
Sep-33	5.32	$5.25	5.39	($0.08)	$0.068
Oct-33	5.27	$5.15	5.33	($0.12)	$0.053
Nov-33	5.43	$5.32	5.46	($0.11)	$0.033
Dec-33	5.62	$5.54	5.67	($0.08)	$0.047
Jan-34	5.66	$5.59	5.74	($0.06)	$0.080
Feb-34	5.49	$5.42	5.55	($0.07)	$0.056
Mar-34	5.34	$5.23	5.33	($0.11)	($0.009)
Apr-34	5.27	$5.14	5.28	($0.13)	$0.009
May-34	5.31	$5.17	5.35	($0.13)	$0.039
Jun-34	5.34	$5.26	5.43	($0.08)	$0.084
Jul-34	5.60	$5.55	5.72	($0.04)	$0.125
Aug-34	5.64	$5.62	5.78	($0.02)	$0.144
Sep-34	5.53	$5.46	5.61	($0.08)	$0.074
Oct-34	5.49	$5.27	5.45	($0.13)	$0.049
Nov-34	5.63	$5.52	5.67	($0.11)	$0.034
Dec-34	5.83	$5.76	5.88	($0.07)	$0.055
Jan-35	5.87	$5.81	5.96	($0.06)	$0.086
Feb-35	5.90	$5.83	5.96	($0.07)	$0.065
Mar-35	5.72	$5.61	5.74	($0.11)	$0.018
Apr-35	5.46	$5.32	5.49	($0.14)	$0.023
May-35	5.50	$5.38	5.54	($0.13)	$0.046
Jun-35	5.53	$5.45	5.62	($0.08)	$0.091
Jul-35	5.82	$5.78	5.95	($0.04)	$0.130
Aug-35	5.85	$5.83	6.00	($0.03)	$0.147
Sep-35	5.76	$5.68	5.83	($0.08)	$0.075
Oct-35	5.61	$5.48	5.66	($0.13)	$0.048
Nov-35	5.66	$5.55	5.69	($0.11)	$0.033
Dec-35	5.81	$5.74	5.87	($0.07)	$0.058
Jan-36	5.85	$5.79	5.94	($0.05)	$0.093
Feb-36	5.88	$5.80	5.91	($0.08)	$0.034
Mar-36	5.78	$5.67	5.80	($0.11)	$0.020
Apr-36	5.55	$5.41	5.57	($0.14)	$0.023
May-36	5.59	$5.45	5.64	($0.13)	$0.049
Jun-36	5.63	$5.54	5.72	($0.08)	$0.096
Jul-36	5.79	$5.75	5.93	($0.04)	$0.135
Aug-36	5.83	$5.80	5.98	($0.03)	$0.150
Sep-36	5.81	$5.73	5.90	($0.07)	$0.089
Oct-36	5.77	$5.64	5.84	($0.12)	$0.076
Nov-36	5.85	$5.74	5.90	($0.11)	$0.051
Dec-36	6.11	$6.04	6.18	($0.07)	$0.064
Jan-37	6.16	$6.10	6.27	($0.06)	$0.105
Feb-37	6.29	$6.13	6.28	($0.07)	$0.081
Mar-37	6.11	$5.99	6.13	($0.11)	$0.024
Apr-37	5.93	$5.79	5.95	($0.14)	$0.021
May-37	5.97	$5.83	6.02	($0.14)	$0.055
Jun-37	6.03	$5.95	6.14	($0.08)	$0.111
Jul-37	6.29	$6.25	6.43	($0.04)	$0.147
Aug-37	6.33	$6.30	6.47	($0.03)	$0.147
Sep-37	6.24	$6.17	6.34	($0.07)	$0.096
Oct-37	6.17	$6.04	6.25	($0.14)	$0.074
Nov-37	6.25	$6.13	6.30	($0.12)	$0.052
Dec-37	6.61	$6.48	6.59	($0.07)	$0.078
Jan-38	6.55	$6.49	6.66	($0.06)	$0.111
Feb-38	6.59	$6.52	6.68	($0.08)	$0.088
Mar-38	6.49	$6.37	6.52	($0.12)	$0.026
Apr-38	6.27	$6.13	6.31	($0.14)	$0.044
May-38	6.31	$6.17	6.37	($0.14)	$0.060
Jun-38	6.35	$6.27	6.47	($0.08)	$0.118
Jul-38	6.53	$6.49	6.69	($0.04)	$0.152
Aug-38	6.58	$6.54	6.73	($0.04)	$0.145
Sep-38	6.43	$6.36	6.54	($0.07)	$0.104
Oct-38	6.37	$6.23	6.43	($0.14)	$0.064
Nov-38	6.47	$6.35	6.55	($0.12)	$0.073
Dec-38	6.76	$6.63	6.80	($0.07)	$0.100
Jan-39	6.75	$6.68	6.87	($0.06)	$0.119
Feb-39	6.79	$6.72	6.89	($0.07)	$0.101
Mar-39	6.63	$6.51	6.66	($0.12)	$0.032
Apr-39	6.29	$6.05	6.24	($0.15)	$0.041
May-39	6.24	$6.09	6.29	($0.15)	$0.052
Jun-39	6.28	$6.19	6.39	($0.09)	$0.115
Jul-39	6.34	$6.28	6.47	($0.06)	$0.129
Aug-39	6.89	$6.84	7.04	($0.05)	$0.145
Sep-39	6.86	$6.78	6.95	($0.08)	$0.089
Oct-39	6.69	$6.46	6.69	($0.14)	$0.081
Nov-39	6.68	$6.56	6.74	($0.12)	$0.063
Dec-39	6.86	$6.80	6.97	($0.06)	$0.097
Jan-40	6.93	$6.86	7.02	($0.07)	$0.088
Feb-40	6.96	$6.85	7.02	($0.11)	$0.061
Mar-40	6.85	$6.72	6.88	($0.12)	$0.033
Apr-40	6.62	$6.47	6.63	($0.15)	$0.013
May-40	6.66	$6.51	6.72	($0.15)	$0.058
Jun-40	6.72	$6.62	6.82	($0.10)	$0.108
Jul-40	6.96	$6.91	7.11	($0.05)	$0.144
Aug-40	7.01	$6.97	7.16	($0.04)	$0.155
Sep-40	6.99	$6.91	7.09	($0.08)	$0.098
Oct-40	6.83	$6.68	6.92	($0.15)	$0.086
Nov-40	6.91	$6.78	6.98	($0.13)	$0.069
Dec-40	7.14	$7.07	7.25	($0.07)	$0.111
Jan-41	7.18	$7.12	7.30	($0.06)	$0.113
Feb-41	7.21	$7.12	7.30	($0.09)	$0.083
Mar-41	7.06	$6.93	7.10	($0.13)	$0.037
Apr-41	6.80	$6.65	6.85	($0.15)	$0.046
May-41	6.84	$6.69	6.90	($0.15)	$0.061
Jun-41	6.92	$6.83	7.04	($0.09)	$0.124
Jul-41	7.22	$7.18	7.39	($0.04)	$0.166
Aug-41	7.26	$7.24	7.42	($0.03)	$0.158
Sep-41	7.27	$7.19	7.38	($0.08)	$0.116
Oct-41	7.01	$6.87	7.09	($0.15)	$0.081
Nov-41	7.16	$7.03	7.23	($0.13)	$0.077
Dec-41	7.28	$7.20	7.49	($0.08)	$0.127
Jan-42	7.48	$7.35	7.52	($0.09)	$0.120
Feb-42	7.43	$7.35	7.52	($0.09)	$0.089
Mar-42	7.28	$7.14	7.31	($0.14)	$0.033
Apr-42	7.07	$6.91	7.12	($0.16)	$0.045
May-42	7.12	$6.96	7.18	($0.16)	$0.063
Jun-42	7.18	$7.10	7.32	($0.08)	$0.134
Jul-42	7.55	$7.51	7.72	($0.05)	$0.168
Aug-42	7.65	$7.59	7.77	($0.01)	$0.125
Sep-42	7.57	$7.50	7.69	($0.07)	$0.120
Oct-42	7.31	$7.16	7.39	($0.15)	$0.080
Nov-42	7.35	$7.22	7.43	($0.14)	$0.075
Dec-42	7.59	$7.46	7.69	($0.13)	$0.102
Jan-43	7.63	$7.53	7.74	($0.10)	$0.105
Feb-43	7.66	$7.50	7.71	($0.15)	$0.058
Mar-43	7.51	$7.37	7.54	($0.14)	$0.035
Apr-43	7.25	$7.05	7.27	($0.19)	$0.028
May-43	7.29	$7.10	7.34	($0.19)	$0.050
Jun-43	7.35	$7.19	7.45	($0.16)	$0.106
Jul-43	7.76	$7.63	7.87	($0.08)	$0.164
Aug-43	7.75	$7.69	7.91	($0.06)	$0.156
Sep-43	7.78	$7.61	7.87	($0.17)	$0.091
Oct-43	7.49	$7.32	7.56	($0.17)	$0.077
Nov-43	7.55	$7.39	7.62	($0.16)	$0.066
Dec-43	7.80	$7.65	7.89	($0.14)	$0.097
Jan-44	7.84	$7.72	7.94	($0.12)	$0.099
Feb-44	7.88	$7.72	7.94	($0.16)	$0.059
Mar-44	7.71	$7.55	7.74	($0.16)	$0.025
Apr-44	7.57	$7.36	7.60	($0.21)	$0.029
May-44	7.62	$7.40	7.65	($0.22)	$0.040
Jun-44	7.66	$7.49	7.77	($0.17)	$0.105
Jul-44	8.01	$7.83	8.17	($0.18)	$0.160
Aug-44	8.08	$8.00	8.22	($0.08)	$0.162
Sep-44	8.05	$7.85	8.13	($0.19)	$0.080
Oct-44	7.84	$7.63	7.89	($0.22)	$0.045
Nov-44	7.97	$7.78	8.03	($0.19)	$0.060
Dec-44	8.21	$8.06	8.31	($0.15)	$0.099
Jan-45	8.26	$8.14	8.37	($0.12)	$0.107
Feb-45	8.31	$8.14	8.37	($0.17)	$0.056
Mar-45	8.18	$8.01	8.21	($0.16)	$0.031
Apr-45	7.99	$7.76	8.01	($0.23)	$0.026
May-45	8.03	$7.81	8.07	($0.22)	$0.042
Jun-45	8.08	$7.91	8.19	($0.17)	$0.109
Jul-45	8.45	$8.36	8.61	($0.09)	$0.157
Aug-45	8.51	$8.44	8.68	($0.06)	$0.169
Sep-45	8.52	$8.32	8.61	($0.20)	$0.085
Oct-45	8.27	$8.05	8.33	($0.22)	$0.062
Nov-45	8.40	$8.21	8.46	($0.19)	$0.062
Dec-45	8.65	$8.49	8.75	($0.16)	$0.096
Jan-46	8.70	$8.59	8.82	($0.11)	$0.115
Feb-46	8.73	$8.56	8.79	($0.17)	$0.062
Mar-46	8.53	$8.34	8.55	($0.19)	$0.022
Apr-46	8.29	$8.05	8.31	($0.24)	$0.018
May-46	8.32	$8.10	8.37	($0.23)	$0.043
Jun-46	8.37	$8.20	8.48	($0.18)	$0.110
Jul-46	8.89	$8.70	8.96	($0.19)	$0.158
Aug-46	8.98	$8.80	9.03	($0.18)	$0.176
Sep-46	8.83	$8.63	8.91	($0.20)	$0.081
Oct-46	8.55	$8.33	8.61	($0.22)	$0.062
Nov-46	8.63	$8.43	8.69	($0.19)	$0.064
Dec-46	8.85	$8.70	8.96	($0.15)	$0.103
Jan-47	8.91	$8.80	9.03	($0.10)	$0.126
Feb-47	8.92	$8.73	8.98	($0.19)	$0.058
Mar-47	8.60	$8.39	8.62	($0.21)	$0.019
Apr-47	8.40	$8.15	8.43	($0.25)	$0.022
May-47	8.44	$8.19	8.48	($0.24)	$0.039
Jun-47	8.49	$8.33	8.61	($0.15)	$0.123
Jul-47	8.95	$8.81	9.07	($0.09)	$0.185
Aug-47	8.96	$8.90	9.14	($0.05)	$0.182
Sep-47	8.95	$8.79	9.04	($0.17)	$0.088
Oct-47	8.79	$8.56	8.85	($0.23)	$0.052
Nov-47	8.87	$8.64	8.92	($0.23)	$0.052
Dec-47	8.91	$8.73	9.00	($0.18)	$0.093
Jan-48	8.96	$8.84	9.07	($0.12)	$0.139
Feb-48	9.00	$8.79	9.04	($0.21)	$0.036
Mar-48	8.80	$8.57	8.81	($0.23)	$0.007
Apr-48	8.67	$8.41	8.69	($0.26)	$0.022
May-48	8.72	$8.47	8.75	($0.25)	$0.032
Jun-48	8.81	$8.63	8.91	($0.19)	$0.099
Jul-48	9.34	$9.22	9.48	($0.13)	$0.136
Aug-48	9.41	$9.35	9.59	($0.06)	$0.181
Sep-48	9.43	$9.23	9.50	($0.20)	$0.072
Oct-48	9.04	$8.79	9.10	($0.25)	$0.058
Nov-48	9.18	$8.94	9.23	($0.24)	$0.046
Dec-48	9.45	$9.23	9.51	($0.22)	$0.061
Jan-49	9.56	$9.32	9.59	($0.24)	$0.085
Feb-49	9.51	$9.28	9.54	($0.23)	$0.031
Mar-49	9.45	$9.22	9.46	($0.23)	$0.007
Apr-49	9.35	$9.09	9.36	($0.26)	$0.019
May-49	8.99	$8.74	9.02	($0.25)	$0.033
Jun-49	9.04	$8.83	9.13	($0.21)	$0.089
Jul-49	9.26	$9.11	9.38	($0.15)	$0.124
Aug-49	9.31	$9.18	9.46	($0.13)	$0.151
Sep-49	9.14	$8.95	9.21	($0.19)	$0.071
Oct-49	8.98	$8.73	9.03	($0.24)	$0.058
Nov-49	9.32	$9.08	9.37	($0.24)	$0.046
Dec-49	9.70	$9.49	9.76	($0.22)	$0.062
Jan-50	9.76	$9.58	9.84	($0.17)	$0.086
Feb-50	9.78	$9.55	9.82	($0.23)	$0.033
Mar-50	9.49	$9.26	9.49	($0.23)	$0.006
Apr-50	9.02	$8.76	9.04	($0.26)	$0.023
May-50	9.06	$8.81	9.09	($0.25)	$0.032
Jun-50	9.11	$8.91	9.20	($0.20)	$0.097
Jul-50	9.39	$9.24	9.52	($0.15)	$0.124
Aug-50	9.45	$9.33	9.61	($0.12)	$0.158
Sep-50	9.42	$9.23	9.50	($0.19)	$0.072
Oct-50	9.12	$8.89	9.18	($0.23)	$0.063
Nov-50	9.37	$9.13	9.42	($0.24)	$0.047
Dec-50	9.68	$9.47	9.75	($0.21)	$0.065

IHS Markit North American Natural Gas Long-Term Outlook, August 2019
Nominal $/MMBtu
Henry Hub and additional hubs

Month-Year	xYear	Henry Hub	FGT Z3	Transco Z4	FGT Z3	Transco Z4
Jan-19	2018	$ 3.07	$ (0.09)	$ (0.06)	$ 3.03	$ 3.00
Feb-19	2019	$ 2.65	$ (0.02)	$ (0.03)	$ 2.63	$ 2.62
Mar-19	2019	$ 2.60	$ (0.00)	$ (0.01)	$ 2.60	$ 2.59
Apr-19	2019	$ 2.50	$ (0.00)	$ (0.03)	$ 2.50	$ 2.47
May-19	2019	$ 2.59	$ 0.01	$ (0.00)	$ 2.60	$ 2.59
Jun-19	2019	$ 2.57	$ 0.04	$ 0.00	$ 2.60	$ 2.57
Jul-19	2019	$ 2.64	$ 0.05	$ 0.01	$ 2.69	$ 2.65
Aug-19	2019	$ 2.66	$ 0.06	$ 0.01	$ 2.72	$ 2.68
Sep-19	2019	$ 2.11	$ 0.02	$ 0.00	$ 2.13	$ 2.11
Oct-19	2019	$ 2.04	$ 0.01	$ (0.03)	$ 2.06	$ 2.01
Nov-19	2019	$ 2.09	$ 0.01	$ (0.02)	$ 2.10	$ 2.07
Dec-19	2019	$ 2.15	$ 0.02	$ (0.01)	$ 2.18	$ 2.15
Jan-20	2020	$ 2.06	$ 0.03	$ (0.01)	$ 2.09	$ 2.05
Feb-20	2020	$ 2.06	$ 0.02	$ (0.02)	$ 2.09	$ 2.04
Mar-20	2020	$ 1.97	$ (0.03)	$ (0.02)	$ 1.96	$ 1.95
Apr-20	2020	$ 1.81	$ (0.02)	$ (0.05)	$ 1.79	$ 1.76
May-20	2020	$ 1.61	$ 0.01	$ (0.05)	$ 1.62	$ 1.56
Jun-20	2020	$ 1.57	$ 0.03	$ (0.04)	$ 1.60	$ 1.53
Jul-20	2020	$ 1.72	$ 0.05	$ (0.03)	$ 1.77	$ 1.70
Aug-20	2020	$ 1.91	$ 0.05	$ (0.01)	$ 1.97	$ 1.91
Sep-20	2020	$ 2.06	$ 0.01	$ (0.04)	$ 2.08	$ 2.02
Oct-20	2020	$ 2.09	$ 0.02	$ (0.06)	$ 2.10	$ 2.02
Nov-20	2020	$ 2.08	$ 0.02	$ (0.03)	$ 2.10	$ 2.05
Dec-20	2020	$ 2.14	$ 0.03	$ (0.02)	$ 2.17	$ 2.12
Jan-21	2021	$ 2.20	$ 0.04	$ (0.01)	$ 2.24	$ 2.19
Feb-21	2021	$ 2.24	$ 0.03	$ (0.03)	$ 2.28	$ 2.22
Mar-21	2021	$ 2.16	$ (0.01)	$ (0.02)	$ 2.14	$ 2.14
Apr-21	2021	$ 2.11	$ (0.02)	$ (0.07)	$ 2.08	$ 2.03
May-21	2021	$ 2.15	$ 0.01	$ (0.07)	$ 2.15	$ 2.08
Jun-21	2021	$ 2.18	$ 0.03	$ (0.05)	$ 2.21	$ 2.13
Jul-21	2021	$ 2.21	$ 0.05	$ (0.04)	$ 2.25	$ 2.17
Aug-21	2021	$ 2.24	$ 0.06	$ (0.02)	$ 2.30	$ 2.22
Sep-21	2021	$ 2.27	$ 0.01	$ (0.03)	$ 2.29	$ 2.22
Oct-21	2021	$ 2.27	$ 0.02	$ (0.06)	$ 2.29	$ 2.21
Nov-21	2021	$ 2.33	$ 0.03	$ (0.04)	$ 2.36	$ 2.30
Dec-21	2021	$ 2.44	$ 0.04	$ (0.02)	$ 2.48	$ 2.42
Jan-22	2022	$ 2.46	$ 0.04	$ (0.02)	$ 2.50	$ 2.44
Feb-22	2022	$ 2.47	$ 0.04	$ (0.03)	$ 2.51	$ 2.44
Mar-22	2022	$ 2.48	$ (0.01)	$ (0.03)	$ 2.46	$ 2.45
Apr-22	2022	$ 2.50	$ (0.02)	$ (0.07)	$ 2.49	$ 2.43
May-22	2022	$ 2.52	$ 0.01	$ (0.07)	$ 2.52	$ 2.45
Jun-22	2022	$ 2.54	$ 0.03	$ (0.04)	$ 2.58	$ 2.50
Jul-22	2022	$ 2.61	$ 0.06	$ (0.02)	$ 2.67	$ 2.58
Aug-22	2022	$ 2.63	$ 0.07	$ (0.02)	$ 2.70	$ 2.62
Sep-22	2022	$ 2.63	$ 0.02	$ (0.05)	$ 2.65	$ 2.58
Oct-22	2022	$ 2.62	$ 0.02	$ (0.06)	$ 2.65	$ 2.56
Nov-22	2022	$ 2.70	$ 0.03	$ (0.03)	$ 2.74	$ 2.67
Dec-22	2022	$ 2.79	$ 0.04	$ (0.01)	$ 2.84	$ 2.78
Jan-23	2023	$ 2.81	$ 0.05	$ (0.02)	$ 2.86	$ 2.79
Feb-23	2023	$ 2.83	$ 0.05	$ (0.03)	$ 2.87	$ 2.79
Mar-23	2023	$ 2.77	$ (0.00)	$ (0.03)	$ 2.77	$ 2.74
Apr-23	2023	$ 2.73	$ (0.01)	$ (0.07)	$ 2.72	$ 2.66
May-23	2023	$ 2.75	$ 0.02	$ (0.06)	$ 2.76	$ 2.68
Jun-23	2023	$ 2.78	$ 0.04	$ (0.01)	$ 2.82	$ 2.73
Jul-23	2023	$ 2.87	$ 0.07	$ (0.04)	$ 2.94	$ 2.83
Aug-23	2023	$ 2.89	$ 0.08	$ (0.03)	$ 2.97	$ 2.87
Sep-23	2023	$ 2.87	$ 0.03	$ (0.01)	$ 2.90	$ 2.82
Oct-23	2023	$ 2.81	$ 0.03	$ (0.06)	$ 2.86	$ 2.79
Nov-23	2023	$ 3.01	$ 0.04	$ (0.03)	$ 3.05	$ 2.97
Dec-23	2023	$ 3.07	$ 0.05	$ (0.02)	$ 3.12	$ 3.05
Jan-24	2024	$ 3.10	$ 0.06	$ (0.03)	$ 3.15	$ 3.07
Feb-24	2024	$ 3.12	$ 0.05	$ (0.04)	$ 3.17	$ 3.07
Mar-24	2024	$ 3.10	$ (0.00)	$ (0.05)	$ 3.10	$ 3.06
Apr-24	2024	$ 3.08	$ (0.01)	$ (0.09)	$ 3.08	$ 3.00
May-24	2024	$ 3.10	$ 0.02	$ (0.08)	$ 3.12	$ 3.02
Jun-24	2024	$ 3.16	$ 0.05	$ (0.04)	$ 3.21	$ 3.10
Jul-24	2024	$ 3.27	$ 0.08	$ (0.04)	$ 3.34	$ 3.22
Aug-24	2024	$ 3.30	$ 0.08	$ (0.03)	$ 3.37	$ 3.27
Sep-24	2024	$ 3.26	$ 0.05	$ (0.06)	$ 3.31	$ 3.20
Oct-24	2024	$ 3.24	$ 0.04	$ (0.06)	$ 3.28	$ 3.18
Nov-24	2024	$ 3.37	$ 0.04	$ (0.05)	$ 3.42	$ 3.33
Dec-24	2024	$ 3.50	$ 0.06	$ (0.04)	$ 3.56	$ 3.46
Jan-25	2025	$ 3.52	$ 0.06	$ (0.03)	$ 3.58	$ 3.49
Feb-25	2025	$ 3.54	$ 0.06	$ (0.04)	$ 3.60	$ 3.50
Mar-25	2025	$ 3.48	$ (0.00)	$ (0.01)	$ 3.47	$ 3.43
Apr-25	2025	$ 3.43	$ (0.01)	$ (0.10)	$ 3.41	$ 3.33
May-25	2025	$ 3.44	$ 0.02	$ (0.09)	$ 3.46	$ 3.35
Jun-25	2025	$ 3.47	$ 0.05	$ (0.06)	$ 3.52	$ 3.41
Jul-25	2025	$ 3.65	$ 0.08	$ (0.04)	$ 3.73	$ 3.61
Aug-25	2025	$ 3.68	$ 0.08	$ (0.03)	$ 3.76	$ 3.66
Sep-25	2025	$ 3.37	$ 0.04	$ (0.08)	$ 3.41	$ 3.31
Oct-25	2025	$ 3.35	$ 0.04	$ (0.08)	$ 3.38	$ 3.27
Nov-25	2025	$ 3.44	$ 0.04	$ (0.07)	$ 3.48	$ 3.38
Dec-25	2025	$ 3.60	$ 0.05	$ (0.03)	$ 3.65	$ 3.55
Jan-26	2026	$ 3.62	$ 0.06	$ (0.05)	$ 3.68	$ 3.58
Feb-26	2026	$ 3.64	$ 0.05	$ (0.03)	$ 3.70	$ 3.59
Mar-26	2026	$ 3.56	$ (0.00)	$ (0.06)	$ 3.55	$ 3.50
Apr-26	2026	$ 3.50	$ (0.00)	$ (0.09)	$ 3.50	$ 3.41
May-26	2026	$ 3.52	$ 0.02	$ (0.09)	$ 3.54	$ 3.43
Jun-26	2026	$ 3.57	$ 0.05	$ (0.06)	$ 3.62	$ 3.51
Jul-26	2026	$ 3.82	$ 0.08	$ (0.04)	$ 3.90	$ 3.78
Aug-26	2026	$ 3.85	$ 0.08	$ (0.04)	$ 3.93	$ 3.81
Sep-26	2026	$ 3.70	$ 0.04	$ (0.06)	$ 3.74	$ 3.64
Oct-26	2026	$ 3.64	$ 0.03	$ (0.09)	$ 3.68	$ 3.55
Nov-26	2026	$ 3.70	$ 0.04	$ (0.06)	$ 3.74	$ 3.64
Dec-26	2026	$ 3.87	$ 0.05	$ (0.03)	$ 3.92	$ 3.82
Jan-27	2027	$ 3.89	$ 0.06	$ (0.04)	$ 3.95	$ 3.85
Feb-27	2027	$ 3.91	$ 0.06	$ (0.03)	$ 3.97	$ 3.88
Mar-27	2027	$ 3.85	$ (0.00)	$ (0.06)	$ 3.85	$ 3.79
Apr-27	2027	$ 3.71	$ (0.00)	$ (0.10)	$ 3.71	$ 3.62
May-27	2027	$ 3.74	$ 0.02	$ (0.10)	$ 3.76	$ 3.64
Jun-27	2027	$ 3.81	$ 0.05	$ (0.06)	$ 3.86	$ 3.75
Jul-27	2027	$ 4.10	$ 0.08	$ (0.04)	$ 4.17	$ 4.05
Aug-27	2027	$ 4.12	$ 0.08	$ (0.03)	$ 4.21	$ 4.09
Sep-27	2027	$ 4.08	$ 0.04	$ (0.07)	$ 4.12	$ 4.01
Oct-27	2027	$ 3.89	$ 0.04	$ (0.09)	$ 3.93	$ 3.80
Nov-27	2027	$ 3.95	$ 0.04	$ (0.06)	$ 4.00	$ 3.89
Dec-27	2027	$ 4.14	$ 0.05	$ (0.03)	$ 4.20	$ 4.10
Jan-28	2028	$ 4.17	$ 0.06	$ (0.03)	$ 4.23	$ 4.14
Feb-28	2028	$ 4.20	$ 0.05	$ (0.06)	$ 4.24	$ 4.14
Mar-28	2028	$ 4.10	$ (0.00)	$ (0.07)	$ 4.10	$ 4.03
Apr-28	2028	$ 4.07	$ (0.01)	$ (0.13)	$ 4.06	$ 3.96
May-28	2028	$ 4.10	$ 0.02	$ (0.10)	$ 4.12	$ 4.00
Jun-28	2028	$ 4.28	$ 0.06	$ (0.06)	$ 4.34	$ 4.22
Jul-28	2028	$ 4.27	$ 0.09	$ (0.04)	$ 4.37	$ 4.24
Aug-28	2028	$ 4.31	$ 0.09	$ (0.03)	$ 4.40	$ 4.28
Sep-28	2028	$ 4.35	$ 0.05	$ (0.06)	$ 4.40	$ 4.29
Oct-28	2028	$ 4.31	$ 0.04	$ (0.09)	$ 4.35	$ 4.22
Nov-28	2028	$ 4.35	$ 0.05	$ (0.07)	$ 4.40	$ 4.28
Dec-28	2028	$ 4.60	$ 0.05	$ (0.05)	$ 4.65	$ 4.54
Jan-29	2029	$ 4.64	$ 0.08	$ (0.03)	$ 4.72	$ 4.61
Feb-29	2029	$ 4.67	$ 0.07	$ (0.05)	$ 4.74	$ 4.62
Mar-29	2029	$ 4.45	$ 0.01	$ (0.06)	$ 4.46	$ 4.39
Apr-29	2029	$ 4.47	$ 0.00	$ (0.10)	$ 4.47	$ 4.36
May-29	2029	$ 4.53	$ 0.03	$ (0.10)	$ 4.56	$ 4.43
Jun-29	2029	$ 4.66	$ 0.06	$ (0.07)	$ 4.72	$ 4.58
Jul-29	2029	$ 4.28	$ 0.09	$ (0.05)	$ 4.48	$ 4.34
Aug-29	2029	$ 4.42	$ 0.10	$ (0.03)	$ 4.52	$ 4.38
Sep-29	2029	$ 4.54	$ 0.05	$ (0.07)	$ 4.59	$ 4.46
Oct-29	2029	$ 4.52	$ 0.04	$ (0.10)	$ 4.57	$ 4.43
Nov-29	2029	$ 4.43	$ 0.06	$ (0.04)	$ 4.49	$ 4.39
Dec-29	2029	$ 4.63	$ 0.06	$ (0.04)	$ 4.70	$ 4.59
Jan-30	2030	$ 4.67	$ 0.08	$ (0.03)	$ 4.74	$ 4.64
Feb-30	2030	$ 4.69	$ 0.07	$ (0.04)	$ 4.76	$ 4.65
Mar-30	2030	$ 4.58	$ 0.00	$ (0.05)	$ 4.59	$ 4.53
Apr-30	2030	$ 4.55	$ (0.01)	$ (0.12)	$ 4.54	$ 4.43
May-30	2030	$ 4.58	$ 0.03	$ (0.10)	$ 4.61	$ 4.48
Jun-30	2030	$ 4.65	$ 0.07	$ (0.05)	$ 4.72	$ 4.61
Jul-30	2030	$ 4.98	$ 0.10	$ (0.02)	$ 5.09	$ 4.96
Aug-30	2030	$ 5.02	$ 0.11	$ 0.00	$ 5.13	$ 5.02
Sep-30	2030	$ 4.95	$ 0.06	$ (0.01)	$ 5.00	$ 4.89
Oct-30	2030	$ 4.72	$ 0.05	$ (0.08)	$ 4.77	$ 4.64
Nov-30	2030	$ 4.64	$ 0.06	$ (0.04)	$ 4.69	$ 4.59
Dec-30	2030	$ 4.86	$ 0.06	$ (0.04)	$ 4.93	$ 4.82
Jan-31	2031	$ 4.89	$ 0.10	$ (0.04)	$ 4.99	$ 4.85
Feb-31	2031	$ 4.92	$ 0.09	$ (0.00)	$ 5.01	$ 4.87
Mar-31	2031	$ 4.83	$ 0.02	$ (0.06)	$ 4.84	$ 4.76
Apr-31	2031	$ 4.78	$ 0.00	$ (0.12)	$ 4.78	$ 4.66
May-31	2031	$ 4.81	$ 0.06	$ (0.10)	$ 4.87	$ 4.71
Jun-31	2031	$ 4.88	$ 0.08	$ (0.06)	$ 4.96	$ 4.82
Jul-31	2031	$ 5.21	$ 0.12	$ (0.03)	$ 5.33	$ 5.17
Aug-31	2031	$ 5.26	$ 0.14	$ (0.04)	$ 5.40	$ 5.22
Sep-31	2031	$ 5.16	$ 0.09	$ (0.01)	$ 5.25	$ 5.11
Oct-31	2031	$ 5.00	$ 0.08	$ (0.08)	$ 5.09	$ 4.92
Nov-31	2031	$ 5.07	$ 0.07	$ (0.00)	$ 5.14	$ 5.01
Dec-31	2031	$ 5.25	$ 0.08	$ (0.03)	$ 5.33	$ 5.20
Jan-32	2032	$ 5.28	$ 0.11	$ (0.03)	$ 5.39	$ 5.23
Feb-32	2032	$ 5.31	$ 0.08	$ (0.00)	$ 5.39	$ 5.25
Mar-32	2032	$ 5.29	$ 0.05	$ (0.07)	$ 5.34	$ 5.22
Apr-32	2032	$ 5.13	$ 0.03	$ (0.13)	$ 5.15	$ 5.00
May-32	2032	$ 5.16	$ 0.07	$ (0.10)	$ 5.23	$ 5.05
Jun-32	2032	$ 5.19	$ 0.09	$ (0.00)	$ 5.28	$ 5.13
Jul-32	2032	$ 5.33	$ 0.14	$ (0.04)	$ 5.47	$ 5.29
Aug-32	2032	$ 5.38	$ 0.16	$ (0.03)	$ 5.54	$ 5.35
Sep-32	2032	$ 5.30	$ 0.09	$ (0.00)	$ 5.39	$ 5.25
Oct-32	2032	$ 5.27	$ 0.09	$ (0.08)	$ 5.35	$ 5.19
Nov-32	2032	$ 5.39	$ 0.05	$ (0.10)	$ 5.44	$ 5.28
Dec-32	2032	$ 5.40	$ 0.07	$ (0.08)	$ 5.47	$ 5.33
Jan-33	2033	$ 5.14	$ 0.09	$ (0.06)	$ 5.23	$ 5.07
Feb-33	2033	$ 5.17	$ 0.09	$ (0.07)	$ 5.26	$ 5.10
Mar-33	2033	$ 5.12	$ 0.02	$ (0.10)	$ 5.14	$ 5.02
Apr-33	2033	$ 5.12	$ 0.02	$ (0.14)	$ 5.14	$ 4.98
May-33	2033	$ 5.15	$ 0.03	$ (0.14)	$ 5.19	$ 5.02
Jun-33	2033	$ 5.19	$ 0.08	$ (0.08)	$ 5.27	$ 5.11
Jul-33	2033	$ 5.35	$ 0.12	$ (0.04)	$ 5.47	$ 5.31
Aug-33	2033	$ 5.39	$ 0.13	$ (0.02)	$ 5.52	$ 5.37
Sep-33	2033	$ 5.32	$ 0.07	$ (0.08)	$ 5.39	$ 5.25
Oct-33	2033	$ 5.27	$ 0.05	$ (0.12)	$ 5.33	$ 5.15
Nov-33	2033	$ 5.43	$ 0.03	$ (0.11)	$ 5.46	$ 5.32
Dec-33	2033	$ 5.62	$ 0.05	$ (0.08)	$ 5.67	$ 5.54
Jan-34	2034	$ 5.66	$ 0.08	$ (0.08)	$ 5.74	$ 5.59
Feb-34	2034	$ 5.49	$ 0.06	$ (0.07)	$ 5.55	$ 5.42
Mar-34	2034	$ 5.34	$ (0.00)	$ (0.13)	$ 5.33	$ 5.23
Apr-34	2034	$ 5.27	$ 0.01	$ (0.13)	$ 5.28	$ 5.14
May-34	2034	$ 5.31	$ 0.04	$ (0.13)	$ 5.35	$ 5.17
Jun-34	2034	$ 5.34	$ 0.08	$ (0.08)	$ 5.43	$ 5.26
Jul-34	2034	$ 5.60	$ 0.12	$ (0.04)	$ 5.72	$ 5.55
Aug-34	2034	$ 5.64	$ 0.14	$ (0.02)	$ 5.78	$ 5.62
Sep-34	2034	$ 5.53	$ 0.07	$ (0.08)	$ 5.61	$ 5.46
Oct-34	2034	$ 5.40	$ 0.05	$ (0.13)	$ 5.45	$ 5.27
Nov-34	2034	$ 5.63	$ 0.03	$ (0.11)	$ 5.67	$ 5.52
Dec-34	2034	$ 5.83	$ 0.06	$ (0.07)	$ 5.88	$ 5.76
Jan-35	2035	$ 5.87	$ 0.09	$ (0.06)	$ 5.96	$ 5.81
Feb-35	2035	$ 5.90	$ 0.06	$ (0.07)	$ 5.96	$ 5.83
Mar-35	2035	$ 5.72	$ 0.02	$ (0.11)	$ 5.74	$ 5.61
Apr-35	2035	$ 5.46	$ 0.02	$ (0.14)	$ 5.49	$ 5.32
May-35	2035	$ 5.50	$ 0.05	$ (0.13)	$ 5.54	$ 5.36
Jun-35	2035	$ 5.53	$ 0.09	$ (0.08)	$ 5.62	$ 5.45
Jul-35	2035	$ 5.82	$ 0.13	$ (0.04)	$ 5.95	$ 5.78
Aug-35	2035	$ 5.85	$ 0.15	$ (0.03)	$ 6.00	$ 5.83
Sep-35	2035	$ 5.76	$ 0.07	$ (0.08)	$ 5.83	$ 5.68
Oct-35	2035	$ 5.61	$ 0.05	$ (0.13)	$ 5.66	$ 5.48
Nov-35	2035	$ 5.66	$ 0.03	$ (0.11)	$ 5.69	$ 5.55
Dec-35	2035	$ 5.81	$ 0.06	$ (0.07)	$ 5.87	$ 5.74
Jan-36	2036	$ 5.85	$ 0.09	$ (0.06)	$ 5.94	$ 5.79
Feb-36	2036	$ 5.88	$ 0.03	$ (0.08)	$ 5.91	$ 5.80
Mar-36	2036	$ 5.78	$ 0.02	$ (0.11)	$ 5.80	$ 5.67
Apr-36	2036	$ 5.55	$ 0.02	$ (0.14)	$ 5.57	$ 5.41
May-36	2036	$ 5.59	$ 0.05	$ (0.13)	$ 5.64	$ 5.45
Jun-36	2036	$ 5.63	$ 0.10	$ (0.08)	$ 5.72	$ 5.54
Jul-36	2036	$ 5.79	$ 0.13	$ (0.04)	$ 5.93	$ 5.75
Aug-36	2036	$ 5.83	$ 0.15	$ (0.03)	$ 5.98	$ 5.80
Sep-36	2036	$ 5.81	$ 0.09	$ (0.07)	$ 5.90	$ 5.73
Oct-36	2036	$ 5.77	$ 0.08	$ (0.12)	$ 5.84	$ 5.64
Nov-36	2036	$ 5.85	$ 0.05	$ (0.10)	$ 5.90	$ 5.74
Dec-36	2036	$ 6.11	$ 0.06	$ (0.07)	$ 6.18	$ 6.04
Jan-37	2037	$ 6.16	$ 0.11	$ (0.06)	$ 6.27	$ 6.10
Feb-37	2037	$ 6.20	$ 0.08	$ (0.07)	$ 6.28	$ 6.13
Mar-37	2037	$ 6.11	$ 0.02	$ (0.11)	$ 6.13	$ 5.99
Apr-37	2037	$ 5.93	$ 0.02	$ (0.14)	$ 5.95	$ 5.79
May-37	2037	$ 5.97	$ 0.05	$ (0.14)	$ 6.02	$ 5.83
Jun-37	2037	$ 6.03	$ 0.11	$ (0.08)	$ 6.14	$ 5.95
Jul-37	2037	$ 6.29	$ 0.15	$ (0.04)	$ 6.43	$ 6.25
Aug-37	2037	$ 6.33	$ 0.15	$ (0.03)	$ 6.47	$ 6.30
Sep-37	2037	$ 6.24	$ 0.10	$ (0.07)	$ 6.34	$ 6.17
Oct-37	2037	$ 6.17	$ 0.07	$ (0.14)	$ 6.25	$ 6.04
Nov-37	2037	$ 6.25	$ 0.05	$ (0.12)	$ 6.30	$ 6.13
Dec-37	2037	$ 6.51	$ 0.08	$ (0.07)	$ 6.59	$ 6.44
Jan-38	2038	$ 6.55	$ 0.11	$ (0.06)	$ 6.66	$ 6.49
Feb-38	2038	$ 6.59	$ 0.09	$ (0.08)	$ 6.68	$ 6.52
Mar-38	2038	$ 6.49	$ 0.03	$ (0.12)	$ 6.52	$ 6.37
Apr-38	2038	$ 6.27	$ 0.04	$ (0.14)	$ 6.31	$ 6.13
May-38	2038	$ 6.31	$ 0.06	$ (0.14)	$ 6.37	$ 6.17
Jun-38	2038	$ 6.35	$ 0.12	$ (0.08)	$ 6.47	$ 6.27
Jul-38	2038	$ 6.53	$ 0.15	$ (0.04)	$ 6.69	$ 6.49
Aug-38	2038	$ 6.58	$ 0.14	$ (0.04)	$ 6.73	$ 6.54
Sep-38	2038	$ 6.43	$ 0.10	$ (0.07)	$ 6.54	$ 6.36
Oct-38	2038	$ 6.37	$ 0.06	$ (0.14)	$ 6.43	$ 6.23
Nov-38	2038	$ 6.47	$ 0.07	$ (0.12)	$ 6.55	$ 6.35
Dec-38	2038	$ 6.70	$ 0.10	$ (0.07)	$ 6.80	$ 6.63
Jan-39	2039	$ 6.75	$ 0.12	$ (0.06)	$ 6.87	$ 6.68
Feb-39	2039	$ 6.79	$ 0.10	$ (0.07)	$ 6.89	$ 6.72
Mar-39	2039	$ 6.63	$ 0.03	$ (0.12)	$ 6.66	$ 6.51
Apr-39	2039	$ 6.20	$ 0.04	$ (0.15)	$ 6.24	$ 6.05
May-39	2039	$ 6.24	$ 0.05	$ (0.15)	$ 6.29	$ 6.09
Jun-39	2039	$ 6.28	$ 0.11	$ (0.09)	$ 6.39	$ 6.19
Jul-39	2039	$ 6.34	$ 0.13	$ (0.06)	$ 6.47	$ 6.28
Aug-39	2039	$ 6.89	$ 0.15	$ (0.01)	$ 7.04	$ 6.84
Sep-39	2039	$ 6.86	$ 0.09	$ (0.08)	$ 6.95	$ 6.78
Oct-39	2039	$ 6.60	$ 0.08	$ (0.14)	$ 6.69	$ 6.46
Nov-39	2039	$ 6.68	$ 0.06	$ (0.12)	$ 6.74	$ 6.56
Dec-39	2039	$ 6.88	$ 0.09	$ (0.09)	$ 6.97	$ 6.80
Jan-40	2040	$ 6.93	$ 0.10	$ (0.07)	$ 7.02	$ 6.86
Feb-40	2040	$ 6.96	$ 0.06	$ (0.11)	$ 7.02	$ 6.85
Mar-40	2040	$ 6.85	$ 0.03	$ (0.12)	$ 6.88	$ 6.72
Apr-40	2040	$ 6.62	$ 0.01	$ (0.13)	$ 6.63	$ 6.47
May-40	2040	$ 6.66	$ 0.06	$ (0.15)	$ 6.72	$ 6.51
Jun-40	2040	$ 6.72	$ 0.11	$ (0.10)	$ 6.82	$ 6.62
Jul-40	2040	$ 6.96	$ 0.14	$ (0.05)	$ 7.11	$ 6.91
Aug-40	2040	$ 7.01	$ 0.15	$ (0.04)	$ 7.16	$ 6.97
Sep-40	2040	$ 6.99	$ 0.10	$ (0.08)	$ 7.09	$ 6.91
Oct-40	2040	$ 6.83	$ 0.09	$ (0.10)	$ 6.92	$ 6.68
Nov-40	2040	$ 6.91	$ 0.07	$ (0.12)	$ 6.98	$ 6.79
Dec-40	2040	$ 7.14	$ 0.11	$ (0.07)	$ 7.25	$ 7.07
Jan-41	2041	$ 7.19	$ 0.11	$ (0.06)	$ 7.30	$ 7.13
Feb-41	2041	$ 7.21	$ 0.08	$ (0.09)	$ 7.30	$ 7.12
Mar-41	2041	$ 7.06	$ 0.04	$ (0.13)	$ 7.10	$ 6.93
Apr-41	2041	$ 6.80	$ 0.05	$ (0.10)	$ 6.85	$ 6.65
May-41	2041	$ 6.84	$ 0.06	$ (0.15)	$ 6.90	$ 6.69
Jun-41	2041	$ 6.92	$ 0.12	$ (0.09)	$ 7.04	$ 6.83
Jul-41	2041	$ 7.22	$ 0.17	$ (0.04)	$ 7.39	$ 7.18
Aug-41	2041	$ 7.26	$ 0.16	$ (0.03)	$ 7.42	$ 7.24
Sep-41	2041	$ 7.27	$ 0.13	$ (0.08)	$ 7.38	$ 7.19
Oct-41	2041	$ 7.03	$ 0.06	$ (0.10)	$ 7.09	$ 6.87
Nov-41	2041	$ 7.16	$ 0.08	$ (0.13)	$ 7.23	$ 7.03
Dec-41	2041	$ 7.36	$ 0.13	$ (0.06)	$ 7.49	$ 7.30
Jan-42	2042	$ 7.40	$ 0.12	$ (0.00)	$ 7.52	$ 7.35
Feb-42	2042	$ 7.43	$ 0.09	$ (0.09)	$ 7.52	$ 7.35
Mar-42	2042	$ 7.28	$ 0.03	$ (0.14)	$ 7.31	$ 7.14
Apr-42	2042	$ 7.07	$ 0.05	$ (0.16)	$ 7.12	$ 6.91
May-42	2042	$ 7.12	$ 0.06	$ (0.16)	$ 7.18	$ 6.96
Jun-42	2042	$ 7.18	$ 0.13	$ (0.08)	$ 7.32	$ 7.10
Jul-42	2042	$ 7.55	$ 0.17	$ (0.00)	$ 7.72	$ 7.51
Aug-42	2042	$ 7.60	$ 0.17	$ (0.01)	$ 7.77	$ 7.59
Sep-42	2042	$ 7.57	$ 0.12	$ (0.07)	$ 7.69	$ 7.50
Oct-42	2042	$ 7.31	$ 0.08	$ (0.15)	$ 7.39	$ 7.16
Nov-42	2042	$ 7.35	$ 0.07	$ (0.14)	$ 7.43	$ 7.22
Dec-42	2042	$ 7.59	$ 0.10	$ (0.13)	$ 7.69	$ 7.46
Jan-43	2043	$ 7.63	$ 0.10	$ (0.10)	$ 7.74	$ 7.53
Feb-43	2043	$ 7.66	$ 0.06	$ (0.15)	$ 7.71	$ 7.50
Mar-43	2043	$ 7.51	$ 0.04	$ (0.14)	$ 7.54	$ 7.37
Apr-43	2043	$ 7.25	$ 0.03	$ (0.19)	$ 7.27	$ 7.05
May-43	2043	$ 7.29	$ 0.05	$ (0.19)	$ 7.34	$ 7.10
Jun-43	2043	$ 7.35	$ 0.11	$ (0.16)	$ 7.45	$ 7.19
Jul-43	2043	$ 7.70	$ 0.16	$ (0.08)	$ 7.87	$ 7.63

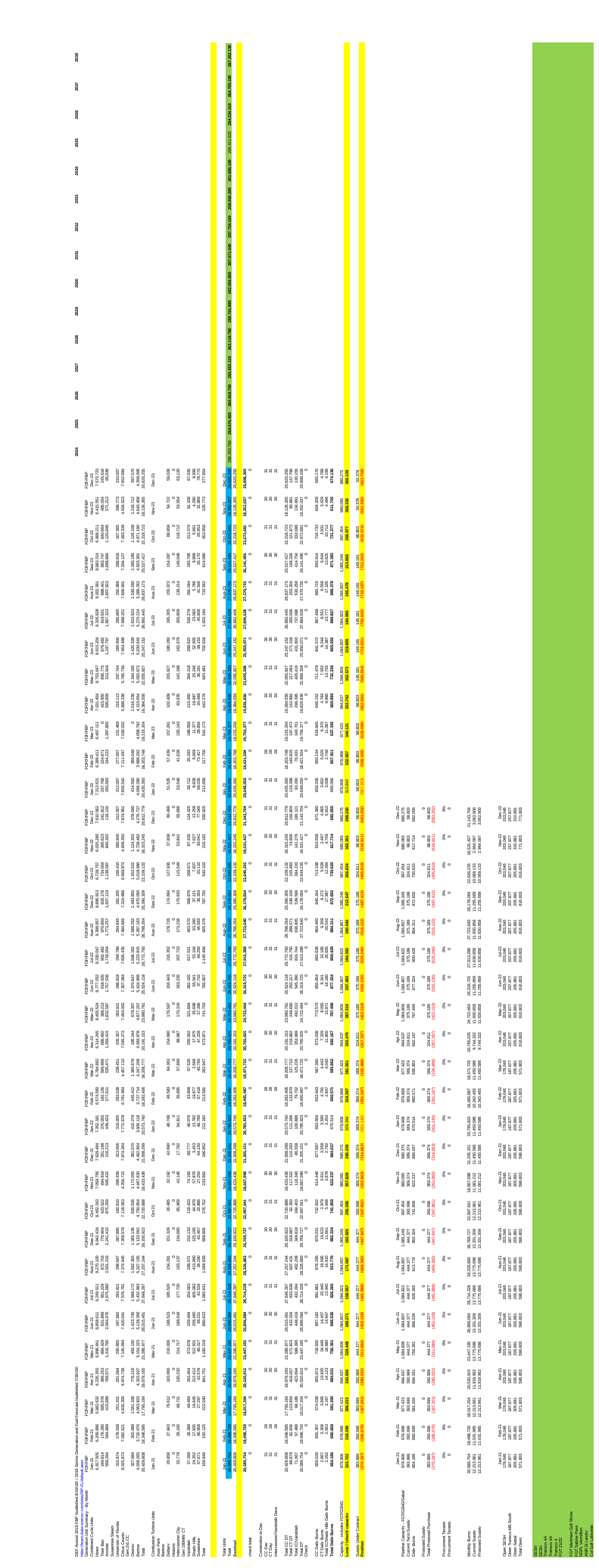
FL June 2019 FOF

Natural Gas Report

MMBtu = Dt

MMBtu (000)

Plant	Unit	2019	2020	2021	2022	2023
ANCLOTE	1	5,725,519.967	5,057,647.146	6,204,051.752	8,448,913.808	6,721,040.467
ANCLOTE	2	3,993,127.573	3,120,861.778	4,906,149.624	2,223,286.471	1,894,315.903
ANCLOTE	*Total*	***9,718,647.540***	***8,178,508.925***	***11,110,201.376***	***10,672,200.279***	***8,615,356.370***
AVON PK	P 1	.000	.000	.000	.000	.000
AVON PK	*Total*	***.000***	***.000***	***.000***	***.000***	***.000***
BARTOW	CC1	23,157,747.439	55,794,749.663	55,348,300.707	55,109,823.646	54,944,546.049
BARTOW	P 2	3,892.042	7,025.668	5,986.380	6,468.973	6,811.767
BARTOW	P 4	5,830.031	8,417.662	8,363.979	9,641.229	6,299.716
BARTOW	*Total*	***23,167,469.511***	***55,810,192.992***	***55,362,651.065***	***55,125,933.849***	***54,957,657.532***
Citrus CC #1	1	20,678,864.852	41,415,942.741	41,309,760.894	41,496,989.884	41,471,709.073
Citrus CC #1	*Total*	***20,678,864.852***	***41,415,942.741***	***41,309,760.894***	***41,496,989.884***	***41,471,709.073***
Citrus CC #2	1	20,526,481.161	41,341,557.256	41,574,498.947	41,336,340.197	41,514,692.387
Citrus CC #2	*Total*	***20,526,481.161***	***41,341,557.256***	***41,574,498.947***	***41,336,340.197***	***41,514,692.387***
DEBARY	P 7	269,390.385	360,105.282	374,198.701	475,267.146	470,704.634
DEBARY	P 8	160,350.261	190,118.447	186,923.627	234,503.817	191,787.853
DEBARY	P 9	328,047.299	441,791.553	545,985.617	582,987.413	614,755.194
DEBARY	*Total*	***757,787.945***	***992,015.282***	***1,107,107.946***	***1,292,758.376***	***1,277,247.681***
HIGGINS	P 1	0.000	0.000	0.000	0.000	0.000
HIGGINS	P 2	904.703	1,050.310	0.000	0.000	0.000
HIGGINS	P 3	4,437.949	4,049.245	0.000	0.000	0.000
HIGGINS	P 4	5,398.830	4,992.561	0.000	0.000	0.000
HIGGINS	*Total*	***10,741.481***	***10,092.116***	***.000***	***.000***	***.000***
HINES	1	12,676,475.855	22,277,822.109	21,765,706.117	23,089,199.097	22,864,999.481
HINES	2	12,179,056.870	21,090,125.016	22,047,818.960	20,563,455.713	22,347,448.592
HINES	3	11,069,071.225	23,568,446.242	20,918,240.431	23,246,826.556	23,217,632.190
HINES	4	11,820,825.918	25,341,724.876	26,883,761.652	24,859,943.901	24,564,743.041
HINES	*Total*	***47,745,429.868***	***92,278,118.243***	***91,615,527.161***	***91,759,425.267***	***92,994,823.305***
INT CITY	P 7	124,440.073	121,793.566	126,356.043	138,774.686	136,269.017
INT CITY	P 8	210,789.836	260,365.053	315,709.987	334,336.389	297,680.610
INT CITY	P 9	216,916.865	266,450.466	318,494.417	252,301.309	344,891.640
INT CITY	P10	119,334.821	125,907.311	91,750.140	145,585.394	132,809.890
INT CITY	P12	22,514.713	27,163.780	42,155.279	43,384.841	40,278.127
INT CITY	P13	62,379.893	62,027.291	44,430.899	59,687.655	52,717.012
INT CITY	P14	10,755.056	18,022.529	23,049.699	22,516.202	15,079.727
INT CITY	*Total*	***767,131.256***	***881,729.996***	***961,946.465***	***996,586.477***	***1,019,726.023***
Osprey 2017	1	12,112,151.229	13,600,566.130	11,407,637.240	11,442,740.440	11,243,453.190
Osprey 2017	*Total*	***12,112,151.229***	***13,600,566.130***	***11,407,637.240***	***11,442,740.440***	***11,243,453.190***
Osprey PPA		.000	.000	.000	.000	.000
Osprey PPA	*Total*	***.000***	***.000***	***.000***	***.000***	***.000***
Shady Hills	1	1,248,676.277	1,028,608.323	1,732,052.434	1,961,818.091	1,939,198.606
Shady Hills	2	1,301,016.042	1,060,593.146	1,888,539.527	2,213,353.854	2,043,555.050
Shady Hills	3	1,395,505.498	1,151,769.883	1,798,265.840	2,015,087.688	1,953,103.810
Shady Hills	*Total*	***3,945,197.818***	***3,240,971.351***	***5,418,857.801***	***6,190,259.633***	***5,935,857.466***
SUWANNEE	1	.000	.000	.000	.000	.000
SUWANNEE	2	.000	.000	.000	.000	.000
SUWANNEE	3	.000	.000	.000	.000	.000
SUWANNEE	P 1	123,629.808	182,701.577	234,113.811	235,450.154	237,939.708
SUWANNEE	P 3	135,848.367	223,660.381	249,518.268	283,623.349	271,915.862
SUWANNEE	*Total*	***259,478.175***	***406,361.959***	***483,632.079***	***519,073.503***	***509,855.569***
TIGERBAY	1	4,295,906.643	6,328,843.964	6,767,734.546	7,138,022.829	6,433,670.738
TIGERBAY	*Total*	***4,295,906.643***	***6,328,843.964***	***6,767,734.546***	***7,138,022.829***	***6,433,670.738***
U OF FL	P 1	1,641,841.291	2,912,322.316	3,266,074.538	3,266,700.778	3,266,039.851
U OF FL	*Total*	***1,641,841.291***	***2,912,322.316***	***3,266,074.538***	***3,266,700.778***	***3,266,039.851***
Vandolah (NSG)	1	187,362.334	221,784.676	263,300.783	352,410.271	297,840.652
Vandolah (NSG)	2	186,363.911	249,792.142	301,630.904	394,291.197	297,000.280
Vandolah (NSG)	3	190,672.401	229,393.647	317,779.248	372,806.384	316,043.236
Vandolah (NSG)	4	223,240.821	294,660.535	320,464.557	382,482.946	338,576.134
Vandolah (NSG)	*Total*	***787,639.466***	***995,631.000***	***1,203,175.492***	***1,501,990.797***	***1,249,460.302***
TOTAL		**146,414,768.235**	**268,392,854.271**	**271,588,805.550**	**272,739,022.309**	**270,489,549.487**


DEF Capacity/Supply Position by Month
Open Upstream Position

DEF GAS TRANSPORTATION SCHEDULES

Non Executed - Subject to Chance Estimates

Updated 8/28/19

0

FT CAPACITY
(MMBTU/DAY)

FT DEMAND RATES
($/MMBTU)

| | FT CAPACITY (MMBTU/DAY) | | |

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	Cypress MMBTU Variable Cost	Cypress Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.046)	$ 3.064	$0.12	3.19
Feb	2019	2.690	$ (0.019)	$ 2.671	$0.12	2.79
Mar	2019	2.950	$ (0.003)	$ 2.947	$0.12	3.07
Apr	2019	2.650	$ (0.001)	$ 2.649	$0.12	2.77
May	2019	2.640	$ 0.005	$ 2.645	$0.12	2.76
Jun	2019	2.400	$ 0.037	$ 2.437	$0.12	2.55
Jul	2019	2.370	$ 0.048	$ 2.418	$0.12	2.53
Aug	2019	2.220	$ 0.056	$ 2.276	$0.11	2.39
Sep	2019	2.560	$ 0.016	$ 2.576	$0.12	2.69
Oct	2019	2.743	$ 0.010	$ 2.753	$0.12	2.87
Nov	2019	2.303	$ 0.012	$ 2.315	$0.11	2.43
Dec	2019	2.495	$ 0.023	$ 2.518	$0.12	2.63
Jan	2020	2.612	$ 0.035	$ 2.647	$0.12	2.77
Feb	2020	2.575	$ 0.024	$ 2.599	$0.12	2.72
Mar	2020	2.462	$ (0.020)	$ 2.442	$0.12	2.56
Apr	2020	2.247	$ (0.019)	$ 2.228	$0.11	2.34
May	2020	2.234	$ 0.005	$ 2.239	$0.11	2.35
Jun	2020	2.278	$ 0.026	$ 2.304	$0.11	2.42
Jul	2020	2.326	$ 0.048	$ 2.374	$0.11	2.49
Aug	2020	2.335	$ 0.055	$ 2.390	$0.11	2.50
Sep	2020	2.318	$ 0.012	$ 2.330	$0.11	2.44
Oct	2020	2.344	$ 0.016	$ 2.360	$0.11	2.47
Nov	2020	2.405	$ 0.025	$ 2.434	$0.12	2.55
Dec	2020	2.578	$ 0.034	$ 2.612	$0.12	2.73
Jan	2021	2.694	$ 0.038	$ 2.732	$0.12	2.85
Feb	2021	2.654	$ 0.033	$ 2.686	$0.12	2.80
Mar	2021	2.538	$ (0.015)	$ 2.523	$0.12	2.64
Apr	2021	2.293	$ (0.021)	$ 2.272	$0.11	2.39
May	2021	2.281	$ 0.005	$ 2.286	$0.11	2.40
Jun	2021	2.320	$ 0.025	$ 2.345	$0.11	2.46
Jul	2021	2.360	$ 0.047	$ 2.407	$0.12	2.52
Aug	2021	2.377	$ 0.058	$ 2.435	$0.12	2.55
Sep	2021	2.384	$ 0.011	$ 2.395	$0.11	2.51
Oct	2021	2.408	$ 0.018	$ 2.426	$0.12	2.54
Nov	2021	2.483	$ 0.027	$ 2.510	$0.12	2.63
Dec	2021	2.648	$ 0.038	$ 2.686	$0.12	2.80
Jan	2022	2.754	$ 0.041	$ 2.795	$0.12	2.92
Feb	2022	2.746	$ 0.036	$ 2.781	$0.12	2.90
Mar	2022	2.688	$ (0.013)	$ 2.675	$0.12	2.79
Apr	2022	2.562	$ (0.016)	$ 2.546	$0.12	2.66
May	2022	2.575	$ 0.007	$ 2.581	$0.12	2.70
Jun	2022	2.622	$ 0.034	$ 2.656	$0.12	2.77
Jul	2022	2.694	$ 0.059	$ 2.753	$0.12	2.87
Aug	2022	2.730	$ 0.066	$ 2.796	$0.12	2.92
Sep	2022	2.742	$ 0.021	$ 2.763	$0.12	2.88
Oct	2022	2.763	$ 0.024	$ 2.787	$0.12	2.91
Nov	2022	2.859	$ 0.034	$ 2.893	$0.12	3.01
Dec	2022	3.004	$ 0.044	$ 3.049	$0.12	3.17
Jan	2023	3.093	$ 0.052	$ 3.145	$0.12	3.27
Feb	2023	3.109	$ 0.047	$ 3.156	$0.12	3.28
Mar	2023	3.044	$ (0.003)	$ 3.042	$0.12	3.17
Apr	2023	2.964	$ (0.008)	$ 2.956	$0.12	3.08
May	2023	2.996	$ 0.016	$ 3.012	$0.12	3.13
Jun	2023	3.063	$ 0.042	$ 3.094	$0.12	3.22
Jul	2023	3.173	$ 0.068	$ 3.242	$0.13	3.37
Aug	2023	3.218	$ 0.076	$ 3.295	$0.13	3.42
Sep	2023	3.214	$ 0.029	$ 3.243	$0.13	3.37
Oct	2023	3.218	$ 0.030	$ 3.248	$0.13	3.37
Nov	2023	3.423	$ 0.037	$ 3.460	$0.13	3.59
Dec	2023	3.514	$ 0.053	$ 3.567	$0.13	3.70
Jan	2024	3.608	$ 0.058	$ 3.666	$0.13	3.80
Feb	2024	3.631	$ 0.050	$ 3.681	$0.13	3.81
Mar	2024	3.618	$ (0.002)	$ 3.616	$0.13	3.75
Apr	2024	3.592	$ (0.007)	$ 3.585	$0.13	3.72
May	2024	3.615	$ 0.017	$ 3.632	$0.13	3.76
Jun	2024	3.685	$ 0.046	$ 3.730	$0.13	3.86
Jul	2024	3.807	$ 0.077	$ 3.883	$0.13	4.02
Aug	2024	3.840	$ 0.077	$ 3.917	$0.13	4.05
Sep	2024	3.802	$ 0.047	$ 3.849	$0.13	3.98
Oct	2024	3.775	$ 0.040	$ 3.815	$0.13	3.95
Nov	2024	3.933	$ 0.044	$ 3.976	$0.14	4.11
Dec	2024	4.077	$ 0.056	$ 4.133	$0.14	4.27
Jan	2025	4.134	$ 0.061	$ 4.196	$0.14	4.33
Feb	2025	4.161	$ 0.055	$ 4.216	$0.14	4.35
Mar	2025	4.084	$ (0.001)	$ 4.083	$0.14	4.22
Apr	2025	4.024	$ (0.011)	$ 4.013	$0.14	4.15
May	2025	4.047	$ 0.016	$ 4.063	$0.14	4.20
Jun	2025	4.077	$ 0.054	$ 4.131	$0.14	4.27
Jul	2025	4.291	$ 0.078	$ 4.370	$0.14	4.51
Aug	2025	4.327	$ 0.078	$ 4.404	$0.14	4.55
Sep	2025	3.954	$ 0.045	$ 3.999	$0.14	4.13
Oct	2025	3.911	$ 0.035	$ 3.966	$0.14	4.10
Nov	2025	4.044	$ 0.036	$ 4.080	$0.14	4.22
Dec	2025	4.230	$ 0.051	$ 4.282	$0.14	4.42
Jan	2026	4.486	$ 0.057	$ 4.543	$0.14	4.69
Feb	2026	4.511	$ 0.053	$ 4.564	$0.14	4.71
Mar	2026	4.404	$ (0.003)	$ 4.401	$0.14	4.54
Apr	2026	4.329	$ (0.001)	$ 4.328	$0.14	4.47
May	2026	4.356	$ 0.022	$ 4.378	$0.14	4.52
Jun	2026	4.419	$ 0.053	$ 4.471	$0.14	4.61
Jul	2026	4.729	$ 0.077	$ 4.806	$0.15	4.95
Aug	2026	4.766	$ 0.078	$ 4.845	$0.15	4.99
Sep	2026	4.580	$ 0.041	$ 4.621	$0.14	4.76
Oct	2026	4.509	$ 0.034	$ 4.543	$0.14	4.69
Nov	2026	4.580	$ 0.042	$ 4.622	$0.14	4.77
Dec	2026	4.785	$ 0.054	$ 4.839	$0.15	4.99
Jan	2027	4.934	$ 0.062	$ 4.995	$0.15	5.14
Feb	2027	4.964	$ 0.057	$ 5.021	$0.15	5.17
Mar	2027	4.885	$ (0.002)	$ 4.883	$0.15	5.03
Apr	2027	4.712	$ (0.002)	$ 4.710	$0.15	4.86
May	2027	4.745	$ 0.021	$ 4.761	$0.15	4.91
Jun	2027	4.829	$ 0.051	$ 4.880	$0.15	5.03
Jul	2027	5.195	$ 0.079	$ 5.273	$0.15	5.43
Aug	2027	5.231	$ 0.082	$ 5.313	$0.15	5.47
Sep	2027	5.177	$ 0.043	$ 5.220	$0.15	5.37
Oct	2027	4.938	$ 0.038	$ 4.977	$0.15	5.13
Nov	2027	4.994	$ 0.043	$ 5.057	$0.15	5.21
Dec	2027	5.256	$ 0.054	$ 5.309	$0.15	5.46
Jan	2028	5.442	$ 0.063	$ 5.505	$0.16	5.66
Feb	2028	5.475	$ 0.047	$ 5.522	$0.16	5.68
Mar	2028	5.346	$ (0.002)	$ 5.344	$0.15	5.50
Apr	2028	5.311	$ (0.006)	$ 5.305	$0.15	5.46
May	2028	5.344	$ 0.024	$ 5.367	$0.15	5.52
Jun	2028	5.586	$ 0.059	$ 5.645	$0.16	5.80
Jul	2028	5.576	$ 0.091	$ 5.667	$0.16	5.82
Aug	2028	5.618	$ 0.089	$ 5.707	$0.16	5.87
Sep	2028	5.672	$ 0.048	$ 5.720	$0.16	5.88
Oct	2028	5.619	$ 0.044	$ 5.663	$0.16	5.82
Nov	2028	5.676	$ 0.046	$ 5.722	$0.16	5.88
Dec	2028	5.999	$ 0.054	$ 6.053	$0.16	6.22
Jan	2029	6.140	$ 0.075	$ 6.215	$0.16	6.38
Feb	2029	6.178	$ 0.068	$ 6.246	$0.17	6.41
Mar	2029	5.964	$ 0.007	$ 5.902	$0.16	6.06
Apr	2029	5.914	$ 0.002	$ 5.916	$0.16	6.08
May	2029	5.999	$ 0.027	$ 6.026	$0.16	6.19
Jun	2029	6.163	$ 0.062	$ 6.224	$0.16	6.39
Jul	2029	5.802	$ 0.091	$ 5.893	$0.16	6.05
Aug	2029	5.845	$ 0.098	$ 5.943	$0.16	6.10
Sep	2029	6.001	$ 0.053	$ 6.054	$0.16	6.22
Oct	2029	5.987	$ 0.040	$ 6.027	$0.16	6.19
Nov	2029	5.981	$ 0.063	$ 5.924	$0.16	6.09
Dec	2029	6.131	$ 0.062	$ 6.193	$0.16	6.36
Jan	2030	6.179	$ 0.075	$ 6.255	$0.17	6.42
Feb	2030	6.217	$ 0.069	$ 6.287	$0.17	6.45
Mar	2030	6.071	$ 0.004	$ 6.074	$0.16	6.24
Apr	2030	6.028	$ (0.008)	$ 6.020	$0.16	6.18
May	2030	6.064	$ 0.029	$ 6.093	$0.16	6.26
Jun	2030	6.163	$ 0.069	$ 6.232	$0.17	6.40
Jul	2030	6.600	$ 0.104	$ 6.704	$0.17	6.88
Aug	2030	6.649	$ 0.113	$ 6.761	$0.17	6.93
Sep	2030	6.551	$ 0.056	$ 6.607	$0.17	6.78
Oct	2030	6.255	$ 0.053	$ 6.307	$0.17	6.47
Nov	2030	6.140	$ 0.056	$ 6.196	$0.16	6.36
Dec	2030	6.439	$ 0.064	$ 6.503	$0.17	6.67
Jan	2031	6.574	$ 0.098	$ 6.672	$0.17	6.84
Feb	2031	6.615	$ 0.092	$ 6.708	$0.17	6.88
Mar	2031	6.485	$ 0.019	$ 6.504	$0.17	6.67
Apr	2031	6.431	$ 0.000	$ 6.431	$0.17	6.60
May	2031	6.470	$ 0.055	$ 6.525	$0.17	6.69
Jun	2031	6.558	$ 0.082	$ 6.640	$0.17	6.81
Jul	2031	7.001	$ 0.116	$ 7.117	$0.18	7.29
Aug	2031	7.070	$ 0.139	$ 7.210	$0.18	7.39
Sep	2031	6.940	$ 0.086	$ 7.026	$0.18	7.20
Oct	2031	6.779	$ 0.082	$ 6.806	$0.17	6.98
Nov	2031	6.818	$ 0.066	$ 6.884	$0.17	7.06
Dec	2031	7.054	$ 0.082	$ 7.135	$0.18	7.31
Jan	2032	7.045	$ 0.106	$ 7.155	$0.18	7.33
Feb	2032	7.087	$ 0.077	$ 7.165	$0.18	7.34
Mar	2032	7.059	$ 0.050	$ 7.109	$0.18	7.29
Apr	2032	6.843	$ 0.026	$ 6.869	$0.17	7.04
May	2032	6.880	$ 0.069	$ 6.949	$0.17	7.12
Jun	2032	6.924	$ 0.095	$ 7.019	$0.18	7.19
Jul	2032	7.118	$ 0.136	$ 7.254	$0.18	7.43
Aug	2032	7.178	$ 0.159	$ 7.338	$0.18	7.52
Sep	2032	7.075	$ 0.091	$ 7.166	$0.18	7.34
Oct	2032	7.029	$ 0.088	$ 7.117	$0.18	7.29
Nov	2032	7.193	$ 0.053	$ 7.247	$0.18	7.43
Dec	2032	7.210	$ 0.072	$ 7.283	$0.18	7.46
Jan	2033	6.845	$ 0.093	$ 6.938	$0.17	7.11
Feb	2033	6.892	$ 0.091	$ 6.983	$0.17	7.16
Mar	2033	6.825	$ 0.022	$ 6.846	$0.17	7.02
Apr	2033	6.823	$ 0.016	$ 6.839	$0.17	7.01
May	2033	6.867	$ 0.032	$ 6.899	$0.17	7.07
Jun	2033	6.915	$ 0.080	$ 6.995	$0.18	7.17
Jul	2033	7.127	$ 0.119	$ 7.246	$0.18	7.42
Aug	2033	7.189	$ 0.127	$ 7.316	$0.18	7.50
Sep	2033	7.095	$ 0.068	$ 7.163	$0.18	7.34
Oct	2033	7.029	$ 0.053	$ 7.082	$0.18	7.26
Nov	2033	7.196	$ 0.033	$ 7.268	$0.18	7.45
Dec	2033	7.489	$ 0.047	$ 7.537	$0.18	7.72
Jan	2034	7.689	$ 0.080	$ 7.769	$0.19	7.95
Feb	2034	7.647	$ 0.056	$ 7.522	$0.18	7.70
Mar	2034	7.251	$ (0.008)	$ 7.244	$0.18	7.42
Apr	2034	7.165	$ 0.009	$ 7.174	$0.18	7.35
May	2034	7.211	$ 0.039	$ 7.250	$0.18	7.43
Jun	2034	7.259	$ 0.084	$ 7.343	$0.18	7.52
Jul	2034	7.607	$ 0.125	$ 7.732	$0.18	7.92
Aug	2034	7.666	$ 0.144	$ 7.809	$0.19	7.99
Sep	2034	7.520	$ 0.074	$ 7.595	$0.18	7.78
Oct	2034	7.335	$ 0.049	$ 7.384	$0.18	7.56
Nov	2034	7.652	$ 0.034	$ 7.686	$0.18	7.87
Dec	2034	7.921	$ 0.055	$ 7.977	$0.19	8.16
Jan	2035	8.040	$ 0.086	$ 8.126	$0.19	8.32
Feb	2035	8.081	$ 0.065	$ 8.146	$0.19	8.34
Mar	2035	7.835	$ 0.018	$ 7.853	$0.19	8.04
Apr	2035	7.481	$ 0.023	$ 7.505	$0.18	7.69
May	2035	7.528	$ 0.046	$ 7.574	$0.18	7.76
Jun	2035	7.576	$ 0.091	$ 7.667	$0.18	7.85
Jul	2035	7.968	$ 0.130	$ 8.098	$0.19	8.29
Aug	2035	8.018	$ 0.147	$ 8.165	$0.19	8.36
Sep	2035	7.884	$ 0.075	$ 7.959	$0.19	8.15
Oct	2035	7.682	$ 0.048	$ 7.730	$0.18	7.91
Nov	2035	7.748	$ 0.033	$ 7.781	$0.19	7.97
Dec	2035	7.963	$ 0.058	$ 8.021	$0.19	8.21
Jan	2036	8.009	$ 0.093	$ 8.102	$0.19	8.29
Feb	2036	8.043	$ 0.034	$ 8.078	$0.19	8.27
Mar	2036	7.909	$ 0.020	$ 7.929	$0.19	8.12
Apr	2036	7.599	$ 0.023	$ 7.622	$0.18	7.81
May	2036	7.646	$ 0.049	$ 7.696	$0.18	7.88
Jun	2036	7.702	$ 0.096	$ 7.799	$0.19	7.98
Jul	2036	7.930	$ 0.135	$ 8.065	$0.19	8.25
Aug	2036	7.987	$ 0.150	$ 8.137	$0.19	8.33
Sep	2036	7.948	$ 0.089	$ 8.037	$0.19	8.23
Oct	2036	7.896	$ 0.076	$ 7.971	$0.19	8.16
Nov	2036	8.002	$ 0.051	$ 8.053	$0.19	8.24
Dec	2036	8.368	$ 0.064	$ 8.432	$0.19	8.63
Jan	2037	8.526	$ 0.105	$ 8.631	$0.20	8.83
Feb	2037	8.579	$ 0.081	$ 8.661	$0.20	8.86
Mar	2037	8.453	$ 0.024	$ 8.477	$0.19	8.67
Apr	2037	8.209	$ 0.021	$ 8.229	$0.19	8.42
May	2037	8.259	$ 0.055	$ 8.314	$0.19	8.51
Jun	2037	8.342	$ 0.111	$ 8.452	$0.19	8.65
Jul	2037	8.699	$ 0.147	$ 8.846	$0.20	9.05
Aug	2037	8.757	$ 0.147	$ 8.904	$0.20	9.10
Sep	2037	8.636	$ 0.096	$ 8.732	$0.20	8.93
Oct	2037	8.542	$ 0.074	$ 8.616	$0.20	8.81
Nov	2037	8.650	$ 0.052	$ 8.702	$0.20	8.90
Dec	2037	9.011	$ 0.078	$ 9.089	$0.20	9.29
Jan	2038	9.174	$ 0.111	$ 9.286	$0.20	9.49
Feb	2038	9.231	$ 0.088	$ 9.319	$0.21	9.52
Mar	2038	9.090	$ 0.026	$ 9.115	$0.20	9.32
Apr	2038	8.779	$ 0.044	$ 8.823	$0.20	9.02
May	2038	8.833	$ 0.060	$ 8.893	$0.20	9.09
Jun	2038	8.897	$ 0.118	$ 9.015	$0.20	9.22
Jul	2038	9.149	$ 0.152	$ 9.301	$0.21	9.51
Aug	2038	9.214	$ 0.145	$ 9.359	$0.21	9.56
Sep	2038	9.007	$ 0.104	$ 9.111	$0.20	9.31
Oct	2038	8.916	$ 0.064	$ 8.980	$0.20	9.18
Nov	2038	9.064	$ 0.073	$ 9.137	$0.20	9.34
Dec	2038	9.388	$ 0.100	$ 9.488	$0.21	9.70
Jan	2039	9.405	$ 0.119	$ 9.524	$0.21	9.73
Feb	2039	9.463	$ 0.101	$ 9.564	$0.21	9.77
Mar	2039	9.237	$ 0.032	$ 9.269	$0.20	9.47
Apr	2039	8.644	$ 0.041	$ 8.685	$0.20	8.88
May	2039	8.694	$ 0.052	$ 8.746	$0.20	8.94
Jun	2039	8.750	$ 0.115	$ 8.865	$0.20	9.06
Jul	2039	8.838	$ 0.129	$ 8.967	$0.20	9.17
Aug	2039	9.401	$ 0.145	$ 9.749	$0.21	9.96
Sep	2039	9.561	$ 0.088	$ 9.649	$0.21	9.86
Oct	2039	9.206	$ 0.081	$ 9.287	$0.20	9.49
Nov	2039	9.110	$ 0.063	$ 9.373	$0.21	9.58
Dec	2039	9.596	$ 0.087	$ 9.683	$0.21	9.89
Jan	2040	9.823	$ 0.098	$ 9.920	$0.21	10.13
Feb	2040	9.874	$ 0.061	$ 9.935	$0.21	10.15
Mar	2040	9.714	$ 0.033	$ 9.747	$0.21	9.96
Apr	2040	9.392	$ 0.013	$ 9.405	$0.21	9.61
May	2040	9.468	$ 0.058	$ 9.504	$0.21	9.71
Jun	2040	9.526	$ 0.108	$ 9.634	$0.21	9.84
Jul	2040	9.875	$ 0.144	$ 10.020	$0.21	10.23
Aug	2040	9.935	$ 0.155	$ 10.090	$0.22	10.31
Sep	2040	9.916	$ 0.098	$ 10.014	$0.21	10.23
Oct	2040	9.694	$ 0.086	$ 9.780	$0.21	9.99
Nov	2040	9.797	$ 0.069	$ 9.866	$0.21	10.08
Dec	2040	10.132	$ 0.111	$ 10.243	$0.22	10.46
Jan	2041	10.303	$ 0.113	$ 10.415	$0.22	10.63
Feb	2041	10.342	$ 0.083	$ 10.425	$0.22	10.64
Mar	2041	10.122	$ 0.037	$ 10.159	$0.22	10.38
Apr	2041	9.753	$ 0.048	$ 9.801	$0.21	10.01
May	2041	9.813	$ 0.061	$ 9.874	$0.21	10.09
Jun	2041	9.918	$ 0.124	$ 10.041	$0.21	10.26
Jul	2041	10.353	$ 0.166	$ 10.519	$0.22	10.74
Aug	2041	10.415	$ 0.158	$ 10.572	$0.22	10.79
Sep	2041	10.418	$ 0.116	$ 10.534	$0.22	10.76
Oct	2041	10.075	$ 0.061	$ 10.137	$0.22	10.35
Nov	2041	10.261	$ 0.077	$ 10.338	$0.22	10.56
Dec	2041	10.551	$ 0.127	$ 10.678	$0.22	10.90
Jan	2042	10.687	$ 0.120	$ 10.807	$0.22	11.03
Feb	2042	10.731	$ 0.089	$ 10.820	$0.23	11.05
Mar	2042	10.504	$ 0.033	$ 10.537	$0.22	10.76
Apr	2042	10.210	$ 0.045	$ 10.255	$0.22	10.47
May	2042	10.273	$ 0.063	$ 10.336	$0.22	10.55
Jun	2042	10.573	$ 0.134	$ 10.707	$0.22	10.73
Jul	2042	10.902	$ 0.168	$ 11.070	$0.23	11.30
Aug	2042	10.971	$ 0.171	$ 11.142	$0.23	11.37
Sep	2042	10.935	$ 0.120	$ 11.055	$0.23	11.28
Oct	2042	10.560	$ 0.080	$ 10.640	$0.22	10.86
Nov	2042	10.618	$ 0.075	$ 10.693	$0.22	10.92
Dec	2042	10.954	$ 0.102	$ 11.055	$0.23	11.28
Jan	2043	11.155	$ 0.105	$ 11.260	$0.23	11.49
Feb	2043	11.191	$ 0.058	$ 11.249	$0.23	11.48
Mar	2043	10.972	$ 0.035	$ 11.007	$0.23	11.23
Apr	2043	10.591	$ 0.028	$ 10.620	$0.22	10.84
May	2043	10.656	$ 0.050	$ 10.707	$0.22	10.93
Jun	2043	10.737	$ 0.106	$ 10.843	$0.23	11.07
Jul	2043	11.261	$ 0.164	$ 11.426	$0.23	11.66
Aug	2043	11.329	$ 0.156	$ 11.485	$0.23	11.72
Sep	2043	11.365	$ 0.091	$ 11.456	$0.23	11.69
Oct	2043	10.947	$ 0.077	$ 11.018	$0.23	11.25
Nov	2043	11.036	$ 0.066	$ 11.103	$0.23	11.33
Dec	2043	11.394	$ 0.097	$ 11.491	$0.23	11.72
Jan	2044	11.717	$ 0.099	$ 11.311	$0.23	11.54
Feb	2044	11.261	$ 0.059	$ 11.320	$0.23	11.55
Mar	2044	11.025	$ 0.025	$ 11.050	$0.23	11.28
Apr	2044	10.674	$ 0.029	$ 10.853	$0.23	11.08
May	2044	10.887	$ 0.040	$ 10.926	$0.23	11.15
Jun	2044	10.952	$ 0.105	$ 11.057	$0.23	11.29
Jul	2044	11.445	$ 0.160	$ 11.615	$0.24	11.85
Aug	2044	11.525	$ 0.162	$ 11.687	$0.24	11.92
Sep	2044	11.504	$ 0.080	$ 11.584	$0.23	11.82
Oct	2044	11.213	$ 0.045	$ 11.258	$0.23	11.49
Nov	2044	11.387	$ 0.060	$ 11.447	$0.23	11.68
Dec	2044	11.740	$ 0.099	$ 11.839	$0.24	12.08
Jan	2045	11.803	$ 0.107	$ 11.910	$0.24	12.15
Feb	2045	11.873	$ 0.056	$ 11.928	$0.24	12.17
Mar	2045	11.683	$ 0.031	$ 11.714	$0.24	11.95
Apr	2045	11.414	$ 0.026	$ 11.440	$0.23	11.67
May	2045	11.474	$ 0.042	$ 11.516	$0.23	11.75
Jun	2045	11.545	$ 0.109	$ 11.654	$0.24	11.89
Jul	2045	12.078	$ 0.157	$ 12.235	$0.24	12.48
Aug	2045	12.154	$ 0.169	$ 12.323	$0.24	12.57
Sep	2045	12.175	$ 0.085	$ 12.259	$0.24	12.50
Oct	2045	11.813	$ 0.062	$ 11.876	$0.24	12.11
Nov	2045	12.004	$ 0.062	$ 12.067	$0.24	12.31
Dec	2045	12.362	$ 0.096	$ 12.458	$0.25	12.70
Jan	2046	12.608	$ 0.115	$ 12.723	$0.25	12.97
Feb	2046	12.647	$ 0.062	$ 12.708	$0.25	12.96
Mar	2046	12.352	$ 0.022	$ 12.374	$0.25	12.62
Apr	2046	12.007	$ 0.018	$ 12.025	$0.24	12.27
May	2046	12.060	$ 0.043	$ 12.103	$0.24	12.34
Jun	2046	12.132	$ 0.110	$ 12.241	$0.24	12.48
Jul	2046	12.749	$ 0.158	$ 12.908	$0.25	13.16
Aug	2046	12.851	$ 0.176	$ 13.027	$0.25	13.26
Sep	2046	12.789	$ 0.081	$ 12.870	$0.25	13.12
Oct	2046	12.385	$ 0.062	$ 12.447	$0.25	12.69
Nov	2046	12.499	$ 0.064	$ 12.563	$0.25	12.81
Dec	2046	12.826	$ 0.103	$ 12.929	$0.25	13.18
Jan	2047	13.168	$ 0.126	$ 13.294	$0.26	13.55
Feb	2047	13.190	$ 0.058	$ 13.248	$0.26	13.50
Mar	2047	12.721	$ 0.019	$ 12.740	$0.25	12.99
Apr	2047	12.424	$ 0.022	$ 12.447	$0.25	12.69
May	2047	12.475	$ 0.039	$ 12.514	$0.25	12.76
Jun	2047	12.548	$ 0.123	$ 12.671	$0.25	12.92
Jul	2047	13.163	$ 0.165	$ 13.327	$0.26	13.58
Aug	2047	13.245	$ 0.182	$ 13.427	$0.26	13.69
Sep	2047	13.239	$ 0.088	$ 13.327	$0.26	13.58
Oct	2047	13.003	$ 0.052	$ 13.055	$0.25	13.31
Nov	2047	13.118	$ 0.052	$ 13.170	$0.26	13.43
Dec	2047	13.170	$ 0.093	$ 13.263	$0.26	13.52
Jan	2048	13.311	$ 0.109	$ 13.420	$0.26	13.68
Feb	2048	13.375	$ 0.036	$ 13.411	$0.26	13.67
Mar	2048	13.073	$ 0.007	$ 13.080	$0.25	13.33
Apr	2048	12.884	$ 0.022	$ 12.906	$0.25	13.16
May	2048	12.957	$ 0.032	$ 12.989	$0.25	13.24
Jun	2048	13.091	$ 0.099	$ 13.190	$0.26	13.45

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	FGT MMBTU Variable Cost	FGT Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.046)	$ 3.064	$0.13	3.19
Feb	2019	2.690	$ (0.019)	$ 2.671	$0.12	2.79
Mar	2019	2.960	$ (0.003)	$ 2.947	$0.12	3.07
Apr	2019	2.650	$ (0.001)	$ 2.649	$0.11	2.76
May	2019	2.640	$ 0.005	$ 2.645	$0.11	2.76
Jun	2019	2.400	$ 0.037	$ 2.437	$0.11	2.55
Jul	2019	2.370	$ 0.048	$ 2.418	$0.11	2.53
Aug	2019	2.220	$ 0.056	$ 2.276	$0.11	2.38
Sep	2019	2.560	$ 0.016	$ 2.576	$0.11	2.69
Oct	2019	2.743	$ 0.010	$ 2.753	$0.12	2.87
Nov	2019	2.303	$ 0.012	$ 2.315	$0.11	2.42
Dec	2019	2.495	$ 0.023	$ 2.518	$0.11	2.63
Jan	2020	2.612	$ 0.035	$ 2.647	$0.11	2.76
Feb	2020	2.575	$ 0.024	$ 2.599	$0.11	2.71
Mar	2020	2.462	$ (0.020)	$ 2.442	$0.11	2.55
Apr	2020	2.247	$ (0.019)	$ 2.228	$0.10	2.33
May	2020	2.234	$ 0.005	$ 2.239	$0.10	2.34
Jun	2020	2.278	$ 0.026	$ 2.304	$0.11	2.41
Jul	2020	2.326	$ 0.048	$ 2.374	$0.11	2.48
Aug	2020	2.335	$ 0.055	$ 2.390	$0.11	2.50
Sep	2020	2.318	$ 0.012	$ 2.330	$0.11	2.44
Oct	2020	2.344	$ 0.016	$ 2.360	$0.11	2.47
Nov	2020	2.409	$ 0.025	$ 2.434	$0.11	2.54
Dec	2020	2.578	$ 0.034	$ 2.612	$0.11	2.73
Jan	2021	2.694	$ 0.038	$ 2.732	$0.12	2.85
Feb	2021	2.664	$ 0.033	$ 2.686	$0.12	2.80
Mar	2021	2.538	$ (0.015)	$ 2.523	$0.11	2.63
Apr	2021	2.293	$ (0.021)	$ 2.272	$0.11	2.38
May	2021	2.281	$ 0.005	$ 2.286	$0.11	2.39
Jun	2021	2.320	$ 0.025	$ 2.345	$0.11	2.45
Jul	2021	2.360	$ 0.047	$ 2.407	$0.11	2.52
Aug	2021	2.377	$ 0.058	$ 2.435	$0.11	2.54
Sep	2021	2.384	$ 0.011	$ 2.395	$0.11	2.50
Oct	2021	2.408	$ 0.018	$ 2.426	$0.11	2.54
Nov	2021	2.483	$ 0.027	$ 2.510	$0.11	2.62
Dec	2021	2.648	$ 0.038	$ 2.686	$0.12	2.80
Jan	2022	2.754	$ 0.041	$ 2.795	$0.12	2.91
Feb	2022	2.746	$ 0.036	$ 2.781	$0.12	2.90
Mar	2022	2.688	$ (0.013)	$ 2.675	$0.12	2.79
Apr	2022	2.562	$ (0.016)	$ 2.546	$0.11	2.66
May	2022	2.575	$ 0.007	$ 2.581	$0.11	2.69
Jun	2022	2.622	$ 0.034	$ 2.656	$0.12	2.77
Jul	2022	2.694	$ 0.059	$ 2.753	$0.12	2.87
Aug	2022	2.730	$ 0.066	$ 2.796	$0.12	2.91
Sep	2022	2.742	$ 0.021	$ 2.763	$0.12	2.88
Oct	2022	2.763	$ 0.024	$ 2.787	$0.12	2.91
Nov	2022	2.859	$ 0.034	$ 2.893	$0.12	3.01
Dec	2022	3.004	$ 0.044	$ 3.049	$0.12	3.17
Jan	2023	3.093	$ 0.052	$ 3.145	$0.13	3.27
Feb	2023	3.109	$ 0.047	$ 3.156	$0.13	3.28
Mar	2023	3.044	$ (0.003)	$ 3.042	$0.12	3.17
Apr	2023	2.964	$ (0.008)	$ 2.956	$0.12	3.08
May	2023	2.996	$ 0.016	$ 3.012	$0.12	3.14
Jun	2023	3.060	$ 0.042	$ 3.094	$0.13	3.22
Jul	2023	3.173	$ 0.068	$ 3.242	$0.13	3.37
Aug	2023	3.218	$ 0.076	$ 3.295	$0.13	3.43
Sep	2023	3.214	$ 0.029	$ 3.243	$0.13	3.37
Oct	2023	3.218	$ 0.030	$ 3.248	$0.13	3.38
Nov	2023	3.423	$ 0.037	$ 3.460	$0.14	3.60
Dec	2023	3.514	$ 0.053	$ 3.567	$0.14	3.70
Jan	2024	3.608	$ 0.058	$ 3.666	$0.14	3.81
Feb	2024	3.631	$ 0.050	$ 3.681	$0.14	3.82
Mar	2024	3.618	$ (0.002)	$ 3.616	$0.14	3.76
Apr	2024	3.592	$ (0.007)	$ 3.585	$0.14	3.72
May	2024	3.615	$ 0.017	$ 3.632	$0.14	3.77
Jun	2024	3.685	$ 0.046	$ 3.730	$0.14	3.87
Jul	2024	3.807	$ 0.077	$ 3.883	$0.15	4.03
Aug	2024	3.840	$ 0.077	$ 3.917	$0.15	4.06
Sep	2024	3.802	$ 0.047	$ 3.849	$0.14	3.99
Oct	2024	3.775	$ 0.040	$ 3.815	$0.14	3.96
Nov	2024	3.933	$ 0.044	$ 3.976	$0.15	4.12
Dec	2024	4.077	$ 0.056	$ 4.133	$0.15	4.28
Jan	2025	4.196	$ 0.061	$ 4.196	$0.15	4.35
Feb	2025	4.161	$ 0.055	$ 4.216	$0.15	4.37
Mar	2025	4.084	$ (0.001)	$ 4.083	$0.15	4.23
Apr	2025	4.024	$ (0.011)	$ 4.013	$0.15	4.16
May	2025	4.047	$ 0.016	$ 4.063	$0.15	4.21
Jun	2025	4.077	$ 0.054	$ 4.131	$0.15	4.28
Jul	2025	4.292	$ 0.078	$ 4.370	$0.16	4.53
Aug	2025	4.327	$ 0.078	$ 4.404	$0.16	4.56
Sep	2025	3.954	$ 0.045	$ 3.999	$0.15	4.15
Oct	2025	3.931	$ 0.035	$ 3.966	$0.15	4.11
Nov	2025	4.044	$ 0.036	$ 4.080	$0.15	4.23
Dec	2025	4.230	$ 0.051	$ 4.282	$0.16	4.44
Jan	2026	4.486	$ 0.057	$ 4.543	$0.16	4.71
Feb	2026	4.511	$ 0.053	$ 4.564	$0.16	4.73
Mar	2026	4.404	$ (0.003)	$ 4.401	$0.16	4.56
Apr	2026	4.329	$ (0.001)	$ 4.328	$0.16	4.48
May	2026	4.356	$ 0.022	$ 4.378	$0.16	4.54
Jun	2026	4.419	$ 0.053	$ 4.471	$0.16	4.63
Jul	2026	4.729	$ 0.077	$ 4.806	$0.17	4.97
Aug	2026	4.766	$ 0.078	$ 4.845	$0.17	5.01
Sep	2026	4.580	$ 0.041	$ 4.621	$0.16	4.79
Oct	2026	4.509	$ 0.034	$ 4.543	$0.16	4.71
Nov	2026	4.580	$ 0.042	$ 4.622	$0.16	4.79
Dec	2026	4.785	$ 0.054	$ 4.839	$0.17	5.01
Jan	2027	4.934	$ 0.062	$ 4.995	$0.17	5.17
Feb	2027	4.964	$ 0.057	$ 5.021	$0.17	5.20
Mar	2027	4.885	$ (0.002)	$ 4.883	$0.17	5.05
Apr	2027	4.712	$ (0.002)	$ 4.710	$0.17	4.88
May	2027	4.760	$ 0.021	$ 4.781	$0.17	4.93
Jun	2027	4.829	$ 0.051	$ 4.880	$0.17	5.05
Jul	2027	5.195	$ 0.078	$ 5.273	$0.18	5.45
Aug	2027	5.231	$ 0.082	$ 5.313	$0.18	5.49
Sep	2027	5.177	$ 0.043	$ 5.220	$0.18	5.40
Oct	2027	4.938	$ 0.038	$ 4.977	$0.17	5.15
Nov	2027	5.014	$ 0.043	$ 5.057	$0.18	5.23
Dec	2027	5.256	$ 0.054	$ 5.309	$0.18	5.49
Jan	2028	5.442	$ 0.063	$ 5.505	$0.19	5.69
Feb	2028	5.475	$ 0.047	$ 5.522	$0.19	5.71
Mar	2028	5.346	$ (0.002)	$ 5.344	$0.18	5.53
Apr	2028	5.311	$ (0.006)	$ 5.305	$0.18	5.49
May	2028	5.344	$ 0.024	$ 5.367	$0.18	5.55
Jun	2028	5.586	$ 0.059	$ 5.645	$0.19	5.83
Jul	2028	5.576	$ 0.091	$ 5.667	$0.19	5.86
Aug	2028	5.618	$ 0.089	$ 5.707	$0.19	5.90
Sep	2028	5.672	$ 0.048	$ 5.720	$0.19	5.91
Oct	2028	5.619	$ 0.044	$ 5.663	$0.19	5.85
Nov	2028	5.676	$ 0.046	$ 5.722	$0.19	5.91
Dec	2028	5.999	$ 0.054	$ 6.053	$0.20	6.25
Jan	2029	6.140	$ 0.075	$ 6.215	$0.20	6.42
Feb	2029	6.178	$ 0.068	$ 6.246	$0.20	6.45
Mar	2029	5.894	$ 0.007	$ 5.902	$0.20	6.10
Apr	2029	5.914	$ 0.002	$ 5.916	$0.20	6.11
May	2029	5.999	$ 0.027	$ 6.026	$0.20	6.23
Jun	2029	6.162	$ 0.062	$ 6.224	$0.20	6.43
Jul	2029	5.802	$ 0.091	$ 5.893	$0.20	6.09
Aug	2029	5.845	$ 0.098	$ 5.943	$0.20	6.14
Sep	2029	6.001	$ 0.053	$ 6.054	$0.20	6.25
Oct	2029	5.987	$ 0.040	$ 6.027	$0.20	6.23
Nov	2029	5.861	$ 0.063	$ 5.924	$0.20	6.12
Dec	2029	6.131	$ 0.062	$ 6.193	$0.20	6.40
Jan	2030	6.179	$ 0.075	$ 6.255	$0.21	6.46
Feb	2030	6.217	$ 0.069	$ 6.287	$0.21	6.49
Mar	2030	6.071	$ 0.004	$ 6.074	$0.20	6.27
Apr	2030	6.028	$ (0.008)	$ 6.020	$0.20	6.22
May	2030	6.064	$ 0.029	$ 6.093	$0.20	6.29
Jun	2030	6.163	$ 0.069	$ 6.232	$0.20	6.44
Jul	2030	6.600	$ 0.104	$ 6.704	$0.22	6.92
Aug	2030	6.649	$ 0.113	$ 6.761	$0.22	6.98
Sep	2030	6.551	$ 0.056	$ 6.607	$0.21	6.82
Oct	2030	6.255	$ 0.053	$ 6.307	$0.21	6.51
Nov	2030	6.140	$ 0.056	$ 6.196	$0.20	6.40
Dec	2030	6.439	$ 0.064	$ 6.503	$0.21	6.71
Jan	2031	6.574	$ 0.098	$ 6.672	$0.22	6.89
Feb	2031	6.615	$ 0.092	$ 6.708	$0.22	6.92
Mar	2031	6.485	$ 0.019	$ 6.504	$0.21	6.72
Apr	2031	6.431	$ 0.000	$ 6.431	$0.21	6.64
May	2031	6.470	$ 0.055	$ 6.525	$0.21	6.74
Jun	2031	6.558	$ 0.082	$ 6.640	$0.21	6.85
Jul	2031	7.001	$ 0.116	$ 7.117	$0.23	7.34
Aug	2031	7.070	$ 0.139	$ 7.210	$0.23	7.44
Sep	2031	6.940	$ 0.086	$ 7.026	$0.22	7.25
Oct	2031	6.726	$ 0.082	$ 6.808	$0.22	7.02
Nov	2031	6.818	$ 0.066	$ 6.884	$0.22	7.10
Dec	2031	7.054	$ 0.082	$ 7.135	$0.23	7.36
Jan	2032	7.049	$ 0.106	$ 7.155	$0.23	7.38
Feb	2032	7.087	$ 0.077	$ 7.165	$0.23	7.39
Mar	2032	7.059	$ 0.050	$ 7.109	$0.23	7.34
Apr	2032	6.843	$ 0.026	$ 6.869	$0.22	7.09
May	2032	6.880	$ 0.069	$ 6.949	$0.22	7.17
Jun	2032	6.924	$ 0.095	$ 7.019	$0.22	7.24
Jul	2032	7.118	$ 0.136	$ 7.254	$0.23	7.48
Aug	2032	7.178	$ 0.159	$ 7.338	$0.23	7.57
Sep	2032	7.075	$ 0.091	$ 7.166	$0.23	7.39
Oct	2032	7.029	$ 0.088	$ 7.117	$0.23	7.34
Nov	2032	7.193	$ 0.053	$ 7.247	$0.23	7.48
Dec	2032	7.210	$ 0.072	$ 7.283	$0.23	7.51
Jan	2033	6.945	$ 0.093	$ 6.938	$0.22	7.16
Feb	2033	6.892	$ 0.091	$ 6.983	$0.22	7.21
Mar	2033	6.825	$ 0.022	$ 6.846	$0.22	7.07
Apr	2033	6.823	$ 0.016	$ 6.839	$0.22	7.06
May	2033	6.867	$ 0.032	$ 6.899	$0.22	7.12
Jun	2033	6.915	$ 0.080	$ 6.995	$0.22	7.22
Jul	2033	7.127	$ 0.119	$ 7.246	$0.23	7.48
Aug	2033	7.189	$ 0.127	$ 7.316	$0.23	7.55
Sep	2033	7.095	$ 0.068	$ 7.163	$0.23	7.39
Oct	2033	7.029	$ 0.053	$ 7.082	$0.23	7.31
Nov	2033	7.256	$ 0.033	$ 7.288	$0.23	7.50
Dec	2033	7.489	$ 0.047	$ 7.537	$0.24	7.77
Jan	2034	7.689	$ 0.080	$ 7.769	$0.24	8.01
Feb	2034	7.667	$ 0.058	$ 7.522	$0.24	7.76
Mar	2034	7.251	$ (0.008)	$ 7.244	$0.23	7.47
Apr	2034	7.165	$ 0.009	$ 7.174	$0.23	7.40
May	2034	7.211	$ 0.039	$ 7.250	$0.23	7.48
Jun	2034	7.259	$ 0.084	$ 7.343	$0.23	7.58
Jul	2034	7.607	$ 0.125	$ 7.732	$0.24	7.97
Aug	2034	7.666	$ 0.144	$ 7.809	$0.24	8.05
Sep	2034	7.520	$ 0.074	$ 7.595	$0.24	7.83
Oct	2034	7.335	$ 0.049	$ 7.384	$0.23	7.62
Nov	2034	7.652	$ 0.034	$ 7.686	$0.24	7.93
Dec	2034	7.921	$ 0.055	$ 7.977	$0.25	8.23
Jan	2035	8.040	$ 0.086	$ 8.126	$0.25	8.38
Feb	2035	8.081	$ 0.065	$ 8.146	$0.25	8.40
Mar	2035	7.835	$ 0.018	$ 7.853	$0.25	8.10
Apr	2035	7.481	$ 0.023	$ 7.505	$0.24	7.74
May	2035	7.528	$ 0.046	$ 7.574	$0.24	7.81
Jun	2035	7.576	$ 0.091	$ 7.667	$0.24	7.91
Jul	2035	7.968	$ 0.130	$ 8.098	$0.25	8.35
Aug	2035	8.018	$ 0.147	$ 8.165	$0.25	8.42
Sep	2035	7.884	$ 0.075	$ 7.959	$0.25	8.21
Oct	2035	7.682	$ 0.048	$ 7.730	$0.24	7.97
Nov	2035	7.748	$ 0.033	$ 7.781	$0.24	8.02
Dec	2035	7.967	$ 0.053	$ 8.021	$0.25	8.27
Jan	2036	8.009	$ 0.093	$ 8.102	$0.25	8.35
Feb	2036	8.043	$ 0.034	$ 8.078	$0.25	8.33
Mar	2036	7.949	$ 0.020	$ 7.929	$0.25	8.18
Apr	2036	7.599	$ 0.023	$ 7.622	$0.24	7.86
May	2036	7.646	$ 0.049	$ 7.696	$0.24	7.94
Jun	2036	7.702	$ 0.096	$ 7.799	$0.24	8.04
Jul	2036	7.930	$ 0.135	$ 8.065	$0.25	8.32
Aug	2036	7.987	$ 0.150	$ 8.137	$0.25	8.39
Sep	2036	7.948	$ 0.089	$ 8.037	$0.25	8.29
Oct	2036	7.896	$ 0.076	$ 7.971	$0.25	8.22
Nov	2036	8.002	$ 0.051	$ 8.053	$0.25	8.30
Dec	2036	8.368	$ 0.064	$ 8.432	$0.26	8.69
Jan	2037	8.526	$ 0.105	$ 8.631	$0.26	8.90
Feb	2037	8.579	$ 0.081	$ 8.661	$0.27	8.93
Mar	2037	8.453	$ 0.024	$ 8.477	$0.26	8.74
Apr	2037	8.209	$ 0.021	$ 8.229	$0.25	8.48
May	2037	8.259	$ 0.055	$ 8.314	$0.26	8.57
Jun	2037	8.342	$ 0.111	$ 8.452	$0.26	8.71
Jul	2037	8.699	$ 0.147	$ 8.846	$0.27	9.12
Aug	2037	8.757	$ 0.147	$ 8.904	$0.27	9.18
Sep	2037	8.636	$ 0.096	$ 8.732	$0.27	9.00
Oct	2037	8.547	$ 0.074	$ 8.616	$0.26	8.88
Nov	2037	8.650	$ 0.052	$ 8.702	$0.27	8.97
Dec	2037	9.011	$ 0.078	$ 9.089	$0.28	9.36
Jan	2038	9.175	$ 0.111	$ 9.286	$0.28	9.57
Feb	2038	9.231	$ 0.088	$ 9.319	$0.28	9.60
Mar	2038	9.090	$ 0.026	$ 9.115	$0.28	9.39
Apr	2038	8.770	$ 0.044	$ 8.823	$0.27	9.09
May	2038	8.833	$ 0.060	$ 8.893	$0.27	9.16
Jun	2038	8.897	$ 0.118	$ 9.015	$0.27	9.29
Jul	2038	9.149	$ 0.152	$ 9.301	$0.28	9.58
Aug	2038	9.214	$ 0.145	$ 9.359	$0.28	9.64
Sep	2038	9.007	$ 0.104	$ 9.111	$0.28	9.39
Oct	2038	8.916	$ 0.064	$ 8.980	$0.27	9.25
Nov	2038	9.064	$ 0.073	$ 9.137	$0.28	9.41
Dec	2038	9.388	$ 0.100	$ 9.488	$0.29	9.77
Jan	2039	9.405	$ 0.119	$ 9.524	$0.29	9.81
Feb	2039	9.463	$ 0.101	$ 9.564	$0.29	9.85
Mar	2039	9.237	$ 0.032	$ 9.269	$0.28	9.55
Apr	2039	8.644	$ 0.041	$ 8.685	$0.27	8.95
May	2039	8.694	$ 0.052	$ 8.746	$0.27	9.01
Jun	2039	8.750	$ 0.115	$ 8.865	$0.27	9.14
Jul	2039	8.838	$ 0.129	$ 8.967	$0.27	9.24
Aug	2039	9.603	$ 0.145	$ 9.749	$0.29	10.04
Sep	2039	9.561	$ 0.088	$ 9.649	$0.29	9.94
Oct	2039	9.356	$ 0.081	$ 9.287	$0.28	9.57
Nov	2039	9.510	$ 0.063	$ 9.373	$0.28	9.66
Dec	2039	9.596	$ 0.087	$ 9.683	$0.29	9.97
Jan	2040	9.823	$ 0.098	$ 9.920	$0.30	10.22
Feb	2040	9.974	$ 0.061	$ 9.935	$0.30	10.23
Mar	2040	9.714	$ 0.033	$ 9.747	$0.29	10.04
Apr	2040	9.392	$ 0.013	$ 9.405	$0.28	9.69
May	2040	9.449	$ 0.058	$ 9.504	$0.29	9.79
Jun	2040	9.526	$ 0.108	$ 9.634	$0.29	9.92
Jul	2040	9.875	$ 0.144	$ 10.020	$0.30	10.32
Aug	2040	9.935	$ 0.155	$ 10.090	$0.30	10.39
Sep	2040	9.916	$ 0.098	$ 10.014	$0.30	10.31
Oct	2040	9.694	$ 0.085	$ 9.780	$0.29	10.07
Nov	2040	9.797	$ 0.069	$ 9.866	$0.30	10.16
Dec	2040	10.132	$ 0.111	$ 10.243	$0.30	10.55
Jan	2041	10.303	$ 0.113	$ 10.415	$0.31	10.72
Feb	2041	10.342	$ 0.083	$ 10.425	$0.31	10.73
Mar	2041	10.122	$ 0.037	$ 10.159	$0.30	10.46
Apr	2041	9.753	$ 0.048	$ 9.801	$0.29	10.09
May	2041	9.813	$ 0.061	$ 9.874	$0.30	10.17
Jun	2041	9.918	$ 0.124	$ 10.041	$0.30	10.34
Jul	2041	10.353	$ 0.166	$ 10.519	$0.31	10.83
Aug	2041	10.415	$ 0.158	$ 10.572	$0.31	10.89
Sep	2041	10.418	$ 0.116	$ 10.534	$0.31	10.85
Oct	2041	10.075	$ 0.061	$ 10.137	$0.30	10.44
Nov	2041	10.261	$ 0.077	$ 10.338	$0.31	10.65
Dec	2041	10.561	$ 0.127	$ 10.678	$0.32	10.99
Jan	2042	10.687	$ 0.120	$ 10.807	$0.32	11.13
Feb	2042	10.731	$ 0.089	$ 10.820	$0.32	11.14
Mar	2042	10.502	$ 0.033	$ 10.537	$0.31	10.85
Apr	2042	10.210	$ 0.045	$ 10.255	$0.31	10.56
May	2042	10.273	$ 0.063	$ 10.336	$0.31	10.64
Jun	2042	10.673	$ 0.134	$ 10.507	$0.31	10.82
Jul	2042	10.902	$ 0.168	$ 11.070	$0.33	11.40
Aug	2042	10.971	$ 0.171	$ 11.142	$0.33	11.47
Sep	2042	10.935	$ 0.120	$ 11.055	$0.33	11.38
Oct	2042	10.960	$ 0.080	$ 10.640	$0.31	10.95
Nov	2042	10.618	$ 0.075	$ 10.693	$0.32	11.01
Dec	2042	10.954	$ 0.102	$ 11.055	$0.33	11.38
Jan	2043	11.155	$ 0.105	$ 11.260	$0.33	11.59
Feb	2043	11.191	$ 0.058	$ 11.249	$0.33	11.58
Mar	2043	10.972	$ 0.035	$ 11.007	$0.32	11.33
Apr	2043	10.591	$ 0.028	$ 10.620	$0.31	10.93
May	2043	10.656	$ 0.050	$ 10.707	$0.32	11.02
Jun	2043	10.737	$ 0.106	$ 10.843	$0.32	11.16
Jul	2043	11.261	$ 0.164	$ 11.426	$0.33	11.76
Aug	2043	11.329	$ 0.156	$ 11.485	$0.34	11.82
Sep	2043	11.365	$ 0.091	$ 11.456	$0.34	11.79
Oct	2043	10.947	$ 0.077	$ 11.018	$0.32	11.34
Nov	2043	11.036	$ 0.068	$ 11.103	$0.33	11.43
Dec	2043	11.394	$ 0.097	$ 11.491	$0.34	11.83
Jan	2044	11.313	$ 0.099	$ 11.311	$0.33	11.64
Feb	2044	11.261	$ 0.059	$ 11.320	$0.33	11.65
Mar	2044	11.025	$ 0.025	$ 11.050	$0.32	11.37
Apr	2044	10.824	$ 0.029	$ 10.853	$0.32	11.17
May	2044	10.887	$ 0.040	$ 10.926	$0.32	11.25
Jun	2044	10.952	$ 0.105	$ 11.057	$0.33	11.38
Jul	2044	11.454	$ 0.160	$ 11.615	$0.34	11.95
Aug	2044	11.525	$ 0.162	$ 11.687	$0.34	12.03
Sep	2044	11.504	$ 0.080	$ 11.584	$0.34	11.92
Oct	2044	11.213	$ 0.045	$ 11.258	$0.33	11.59
Nov	2044	11.387	$ 0.060	$ 11.447	$0.33	11.78
Dec	2044	11.740	$ 0.099	$ 11.839	$0.34	12.18
Jan	2045	11.803	$ 0.107	$ 11.910	$0.35	12.26
Feb	2045	11.873	$ 0.056	$ 11.928	$0.35	12.27
Mar	2045	11.683	$ 0.031	$ 11.714	$0.34	12.06
Apr	2045	11.414	$ 0.026	$ 11.440	$0.33	11.77
May	2045	11.474	$ 0.042	$ 11.516	$0.34	11.85
Jun	2045	11.545	$ 0.109	$ 11.654	$0.34	11.99
Jul	2045	12.078	$ 0.157	$ 12.235	$0.35	12.59
Aug	2045	12.154	$ 0.169	$ 12.323	$0.36	12.68
Sep	2045	12.175	$ 0.085	$ 12.259	$0.36	12.61
Oct	2045	11.813	$ 0.062	$ 11.876	$0.35	12.22
Nov	2045	11.994	$ 0.062	$ 12.067	$0.35	12.42
Dec	2045	12.362	$ 0.096	$ 12.458	$0.36	12.82
Jan	2046	12.608	$ 0.115	$ 12.723	$0.37	13.09
Feb	2046	12.647	$ 0.062	$ 12.708	$0.37	13.07
Mar	2046	12.352	$ 0.022	$ 12.374	$0.36	12.73
Apr	2046	12.007	$ 0.018	$ 12.025	$0.35	12.37
May	2046	12.059	$ 0.043	$ 12.103	$0.35	12.45
Jun	2046	12.132	$ 0.110	$ 12.241	$0.35	12.60
Jul	2046	12.749	$ 0.158	$ 12.908	$0.37	13.28
Aug	2046	12.951	$ 0.176	$ 13.007	$0.37	13.38
Sep	2046	12.789	$ 0.081	$ 12.870	$0.37	13.24
Oct	2046	12.385	$ 0.062	$ 12.447	$0.36	12.81
Nov	2046	12.499	$ 0.064	$ 12.563	$0.36	12.93
Dec	2046	12.826	$ 0.103	$ 12.929	$0.37	13.30
Jan	2047	13.168	$ 0.126	$ 13.294	$0.38	13.68
Feb	2047	13.190	$ 0.058	$ 13.248	$0.38	13.63
Mar	2047	12.721	$ 0.019	$ 12.740	$0.37	13.11
Apr	2047	12.424	$ 0.022	$ 12.447	$0.36	12.81
May	2047	12.475	$ 0.039	$ 12.514	$0.36	12.88
Jun	2047	12.548	$ 0.123	$ 12.671	$0.37	13.04
Jul	2047	13.163	$ 0.165	$ 13.327	$0.38	13.71
Aug	2047	13.245	$ 0.182	$ 13.427	$0.38	13.81
Sep	2047	13.239	$ 0.088	$ 13.327	$0.38	13.71
Oct	2047	13.003	$ 0.052	$ 13.055	$0.38	13.43
Nov	2047	13.118	$ 0.052	$ 13.170	$0.38	13.55
Dec	2047	13.170	$ 0.093	$ 13.263	$0.38	13.64
Jan	2048	13.311	$ 0.109	$ 13.420	$0.38	13.80
Feb	2048	13.375	$ 0.036	$ 13.411	$0.38	13.80
Mar	2048	13.073	$ 0.007	$ 13.080	$0.38	13.46
Apr	2048	12.884	$ 0.022	$ 12.906	$0.37	13.28
May	2048	12.957	$ 0.032	$ 12.989	$0.37	13.36
Jun	2048	13.091	$ 0.099	$ 13.190	$0.38	13.57
Jul

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	FGT MMBTU Variable Cost	FGT Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.046)	$ 3.064	$1.05	4.12
Feb	2019	2.690	$ (0.019)	$ 2.671	$1.04	3.72
Mar	2019	2.950	$ (0.003)	$ 2.947	$1.05	4.00
Apr	2019	2.650	$ (0.001)	$ 2.649	$1.04	3.69
May	2019	2.640	$ 0.005	$ 2.645	$1.04	3.69
Jun	2019	2.400	$ 0.037	$ 2.437	$1.04	3.48
Jul	2019	2.370	$ 0.048	$ 2.418	$1.04	3.46
Aug	2019	2.220	$ 0.056	$ 2.276	$1.03	3.31
Sep	2019	2.560	$ 0.016	$ 2.576	$1.04	3.62
Oct	2019	2.743	$ 0.010	$ 2.753	$1.05	3.80
Nov	2019	2.303	$ 0.012	$ 2.315	$1.04	3.35
Dec	2019	2.495	$ 0.023	$ 2.518	$1.04	3.56
Jan	2020	2.612	$ 0.035	$ 2.647	$1.04	3.69
Feb	2020	2.575	$ 0.024	$ 2.599	$1.04	3.64
Mar	2020	2.462	$ (0.020)	$ 2.442	$1.04	3.48
Apr	2020	2.247	$ (0.019)	$ 2.228	$1.03	3.26
May	2020	2.234	$ 0.005	$ 2.239	$1.03	3.27
Jun	2020	2.278	$ 0.026	$ 2.304	$1.04	3.34
Jul	2020	2.326	$ 0.048	$ 2.374	$1.04	3.41
Aug	2020	2.335	$ 0.055	$ 2.390	$1.04	3.43
Sep	2020	2.318	$ 0.012	$ 2.330	$1.04	3.37
Oct	2020	2.344	$ 0.016	$ 2.360	$1.04	3.40
Nov	2020	2.409	$ 0.025	$ 2.434	$1.04	3.47
Dec	2020	2.578	$ 0.034	$ 2.612	$1.04	3.65
Jan	2021	2.714	$ 0.038	$ 2.752	$1.05	3.78
Feb	2021	2.654	$ 0.033	$ 2.686	$1.04	3.73
Mar	2021	2.538	$ (0.015)	$ 2.523	$1.04	3.56
Apr	2021	2.293	$ (0.021)	$ 2.272	$1.03	3.31
May	2021	2.281	$ 0.005	$ 2.286	$1.03	3.32
Jun	2021	2.320	$ 0.025	$ 2.345	$1.04	3.38
Jul	2021	2.360	$ 0.047	$ 2.407	$1.04	3.44
Aug	2021	2.377	$ 0.058	$ 2.435	$1.04	3.47
Sep	2021	2.384	$ 0.011	$ 2.395	$1.04	3.43
Oct	2021	2.408	$ 0.018	$ 2.426	$1.04	3.46
Nov	2021	2.483	$ 0.027	$ 2.510	$1.04	3.55
Dec	2021	2.648	$ 0.038	$ 2.686	$1.04	3.73
Jan	2022	2.754	$ 0.041	$ 2.795	$1.05	3.84
Feb	2022	2.746	$ 0.036	$ 2.781	$1.05	3.83
Mar	2022	2.688	$ (0.013)	$ 2.675	$1.04	3.72
Apr	2022	2.562	$ (0.016)	$ 2.546	$1.04	3.59
May	2022	2.575	$ 0.007	$ 2.581	$1.04	3.62
Jun	2022	2.622	$ 0.034	$ 2.656	$1.04	3.70
Jul	2022	2.694	$ 0.059	$ 2.753	$1.05	3.80
Aug	2022	2.730	$ 0.066	$ 2.796	$1.05	3.84
Sep	2022	2.742	$ 0.021	$ 2.763	$1.05	3.81
Oct	2022	2.763	$ 0.024	$ 2.787	$1.05	3.83
Nov	2022	2.855	$ 0.034	$ 2.893	$1.05	3.94
Dec	2022	3.004	$ 0.044	$ 3.049	$1.05	4.10
Jan	2023	3.093	$ 0.052	$ 3.145	$1.06	4.20
Feb	2023	3.109	$ 0.047	$ 3.156	$1.06	4.21
Mar	2023	3.044	$ (0.003)	$ 3.042	$1.05	4.10
Apr	2023	2.964	$ (0.008)	$ 2.956	$1.05	4.01
May	2023	2.996	$ 0.016	$ 3.012	$1.05	4.06
Jun	2023	3.052	$ 0.042	$ 3.094	$1.05	4.15
Jul	2023	3.173	$ 0.068	$ 3.242	$1.06	4.30
Aug	2023	3.218	$ 0.076	$ 3.295	$1.06	4.35
Sep	2023	3.214	$ 0.029	$ 3.243	$1.06	4.30
Oct	2023	3.218	$ 0.030	$ 3.248	$1.06	4.31
Nov	2023	3.423	$ 0.037	$ 3.460	$1.06	4.52
Dec	2023	3.514	$ 0.053	$ 3.567	$1.07	4.63
Jan	2024	3.608	$ 0.058	$ 3.666	$1.07	4.74
Feb	2024	3.631	$ 0.050	$ 3.681	$1.07	4.75
Mar	2024	3.618	$ (0.002)	$ 3.616	$1.07	4.68
Apr	2024	3.592	$ (0.007)	$ 3.585	$1.07	4.65
May	2024	3.615	$ 0.017	$ 3.632	$1.07	4.70
Jun	2024	3.685	$ 0.046	$ 3.730	$1.07	4.80
Jul	2024	3.807	$ 0.077	$ 3.883	$1.07	4.96
Aug	2024	3.840	$ 0.077	$ 3.917	$1.08	4.99
Sep	2024	3.802	$ 0.047	$ 3.849	$1.07	4.92
Oct	2024	3.775	$ 0.040	$ 3.815	$1.07	4.89
Nov	2024	3.933	$ 0.044	$ 3.976	$1.08	5.05
Dec	2024	4.077	$ 0.056	$ 4.133	$1.08	5.21
Jan	2025	4.135	$ 0.061	$ 4.196	$1.08	5.28
Feb	2025	4.161	$ 0.055	$ 4.216	$1.08	5.30
Mar	2025	4.084	$ (0.001)	$ 4.083	$1.08	5.16
Apr	2025	4.024	$ (0.011)	$ 4.013	$1.08	5.09
May	2025	4.047	$ 0.016	$ 4.063	$1.08	5.14
Jun	2025	4.077	$ 0.054	$ 4.131	$1.08	5.21
Jul	2025	4.291	$ 0.078	$ 4.370	$1.09	5.46
Aug	2025	4.327	$ 0.078	$ 4.404	$1.09	5.49
Sep	2025	3.954	$ 0.045	$ 3.999	$1.08	5.08
Oct	2025	3.931	$ 0.035	$ 3.966	$1.08	5.04
Nov	2025	4.044	$ 0.036	$ 4.080	$1.08	5.16
Dec	2025	4.230	$ 0.051	$ 4.282	$1.08	5.37
Jan	2026	4.486	$ 0.057	$ 4.543	$1.09	5.63
Feb	2026	4.511	$ 0.053	$ 4.564	$1.09	5.66
Mar	2026	4.404	$ (0.003)	$ 4.401	$1.09	5.49
Apr	2026	4.329	$ (0.001)	$ 4.328	$1.09	5.41
May	2026	4.356	$ 0.022	$ 4.378	$1.09	5.46
Jun	2026	4.419	$ 0.053	$ 4.471	$1.09	5.56
Jul	2026	4.729	$ 0.077	$ 4.806	$1.10	5.90
Aug	2026	4.766	$ 0.078	$ 4.845	$1.10	5.94
Sep	2026	4.580	$ 0.041	$ 4.621	$1.09	5.71
Oct	2026	4.509	$ 0.034	$ 4.543	$1.09	5.63
Nov	2026	4.580	$ 0.042	$ 4.622	$1.09	5.72
Dec	2026	4.785	$ 0.054	$ 4.839	$1.10	5.94
Jan	2027	4.914	$ 0.062	$ 4.995	$1.10	6.10
Feb	2027	4.964	$ 0.057	$ 5.021	$1.10	6.12
Mar	2027	4.885	$ (0.002)	$ 4.883	$1.10	5.98
Apr	2027	4.717	$ (0.007)	$ 4.710	$1.10	5.81
May	2027	4.740	$ 0.021	$ 4.761	$1.10	5.86
Jun	2027	4.829	$ 0.051	$ 4.880	$1.10	5.98
Jul	2027	5.194	$ 0.079	$ 5.273	$1.11	6.38
Aug	2027	5.231	$ 0.082	$ 5.313	$1.11	6.42
Sep	2027	5.177	$ 0.043	$ 5.220	$1.11	6.33
Oct	2027	4.938	$ 0.038	$ 4.977	$1.10	6.08
Nov	2027	5.015	$ 0.043	$ 5.057	$1.10	6.16
Dec	2027	5.256	$ 0.054	$ 5.309	$1.11	6.42
Jan	2028	5.442	$ 0.063	$ 5.505	$1.12	6.62
Feb	2028	5.475	$ 0.047	$ 5.522	$1.12	6.64
Mar	2028	5.346	$ (0.002)	$ 5.344	$1.11	6.46
Apr	2028	5.311	$ (0.006)	$ 5.305	$1.11	6.42
May	2028	5.344	$ 0.024	$ 5.367	$1.11	6.48
Jun	2028	5.586	$ 0.059	$ 5.645	$1.12	6.76
Jul	2028	5.576	$ 0.091	$ 5.667	$1.12	6.79
Aug	2028	5.618	$ 0.089	$ 5.707	$1.12	6.83
Sep	2028	5.672	$ 0.048	$ 5.720	$1.12	6.84
Oct	2028	5.619	$ 0.044	$ 5.663	$1.12	6.78
Nov	2028	5.676	$ 0.046	$ 5.722	$1.12	6.84
Dec	2028	5.999	$ 0.054	$ 6.053	$1.13	7.18
Jan	2029	6.140	$ 0.075	$ 6.215	$1.13	7.35
Feb	2029	6.178	$ 0.068	$ 6.246	$1.13	7.38
Mar	2029	5.992	$ (0.001)	$ 5.992	$1.13	7.13
Apr	2029	5.914	$ 0.002	$ 5.916	$1.13	7.04
May	2029	5.999	$ 0.027	$ 6.026	$1.13	7.15
Jun	2029	6.162	$ 0.062	$ 6.224	$1.13	7.36
Jul	2029	5.802	$ 0.091	$ 5.893	$1.12	7.02
Aug	2029	5.844	$ 0.098	$ 5.943	$1.13	7.07
Sep	2029	6.001	$ 0.053	$ 6.054	$1.13	7.18
Oct	2029	5.987	$ 0.040	$ 6.027	$1.13	7.16
Nov	2029	5.861	$ 0.063	$ 5.924	$1.13	7.05
Dec	2029	6.131	$ 0.062	$ 6.193	$1.13	7.33
Jan	2030	6.179	$ 0.075	$ 6.255	$1.13	7.39
Feb	2030	6.217	$ 0.069	$ 6.287	$1.13	7.42
Mar	2030	6.071	$ 0.004	$ 6.074	$1.13	7.20
Apr	2030	6.028	$ (0.008)	$ 6.020	$1.13	7.15
May	2030	6.064	$ 0.029	$ 6.093	$1.13	7.22
Jun	2030	6.163	$ 0.069	$ 6.232	$1.13	7.37
Jul	2030	6.600	$ 0.104	$ 6.704	$1.15	7.85
Aug	2030	6.649	$ 0.113	$ 6.761	$1.15	7.91
Sep	2030	6.551	$ 0.056	$ 6.607	$1.14	7.75
Oct	2030	6.255	$ 0.053	$ 6.307	$1.14	7.44
Nov	2030	6.140	$ 0.056	$ 6.196	$1.13	7.33
Dec	2030	6.470	$ 0.064	$ 6.503	$1.14	7.64
Jan	2031	6.574	$ 0.098	$ 6.672	$1.14	7.82
Feb	2031	6.615	$ 0.092	$ 6.708	$1.15	7.85
Mar	2031	6.495	$ 0.019	$ 6.504	$1.14	7.64
Apr	2031	6.431	$ 0.000	$ 6.431	$1.14	7.57
May	2031	6.470	$ 0.055	$ 6.525	$1.14	7.67
Jun	2031	6.558	$ 0.082	$ 6.640	$1.14	7.78
Jul	2031	7.001	$ 0.116	$ 7.117	$1.16	8.27
Aug	2031	7.070	$ 0.139	$ 7.210	$1.16	8.37
Sep	2031	6.940	$ 0.086	$ 7.026	$1.15	8.18
Oct	2031	6.723	$ 0.082	$ 6.806	$1.15	7.95
Nov	2031	6.818	$ 0.066	$ 6.884	$1.15	8.03
Dec	2031	7.054	$ 0.082	$ 7.135	$1.16	8.29
Jan	2032	7.049	$ 0.106	$ 7.155	$1.16	8.31
Feb	2032	7.087	$ 0.077	$ 7.165	$1.16	8.32
Mar	2032	7.059	$ 0.050	$ 7.109	$1.16	8.26
Apr	2032	6.843	$ 0.026	$ 6.869	$1.15	8.02
May	2032	6.880	$ 0.069	$ 6.949	$1.15	8.10
Jun	2032	6.924	$ 0.095	$ 7.019	$1.15	8.17
Jul	2032	7.118	$ 0.136	$ 7.254	$1.16	8.41
Aug	2032	7.178	$ 0.159	$ 7.338	$1.16	8.50
Sep	2032	7.075	$ 0.091	$ 7.166	$1.16	8.32
Oct	2032	7.029	$ 0.088	$ 7.117	$1.16	8.27
Nov	2032	7.193	$ 0.053	$ 7.247	$1.16	8.41
Dec	2032	7.210	$ 0.072	$ 7.283	$1.16	8.44
Jan	2033	6.945	$ 0.093	$ 6.938	$1.15	8.09
Feb	2033	6.892	$ 0.091	$ 6.983	$1.15	8.14
Mar	2033	6.825	$ 0.022	$ 6.846	$1.15	7.99
Apr	2033	6.805	$ 0.018	$ 6.839	$1.15	7.99
May	2033	6.867	$ 0.032	$ 6.899	$1.15	8.05
Jun	2033	6.915	$ 0.080	$ 6.995	$1.15	8.15
Jul	2033	7.197	$ 0.119	$ 7.246	$1.16	8.40
Aug	2033	7.189	$ 0.127	$ 7.316	$1.16	8.48
Sep	2033	7.095	$ 0.068	$ 7.163	$1.16	8.32
Oct	2033	7.079	$ 0.053	$ 7.082	$1.15	8.24
Nov	2033	7.236	$ 0.033	$ 7.268	$1.16	8.43
Dec	2033	7.489	$ 0.047	$ 7.537	$1.17	8.70
Jan	2034	7.689	$ 0.080	$ 7.769	$1.17	8.94
Feb	2034	7.467	$ 0.056	$ 7.522	$1.17	8.69
Mar	2034	7.251	$ (0.008)	$ 7.244	$1.16	8.40
Apr	2034	7.165	$ 0.009	$ 7.174	$1.16	8.33
May	2034	7.211	$ 0.039	$ 7.250	$1.16	8.41
Jun	2034	7.259	$ 0.084	$ 7.343	$1.16	8.50
Jul	2034	7.607	$ 0.125	$ 7.732	$1.17	8.90
Aug	2034	7.666	$ 0.144	$ 7.809	$1.17	8.98
Sep	2034	7.520	$ 0.074	$ 7.595	$1.17	8.76
Oct	2034	7.335	$ 0.049	$ 7.384	$1.16	8.55
Nov	2034	7.652	$ 0.034	$ 7.686	$1.17	8.86
Dec	2034	7.921	$ 0.055	$ 7.977	$1.18	9.15
Jan	2035	8.040	$ 0.086	$ 8.126	$1.18	9.31
Feb	2035	8.061	$ 0.085	$ 8.146	$1.18	9.33
Mar	2035	7.835	$ 0.018	$ 7.853	$1.17	9.03
Apr	2035	7.481	$ 0.023	$ 7.505	$1.17	8.67
May	2035	7.439	$ 0.046	$ 7.574	$1.17	8.74
Jun	2035	7.576	$ 0.091	$ 7.667	$1.17	8.84
Jul	2035	7.968	$ 0.130	$ 8.098	$1.18	9.28
Aug	2035	8.018	$ 0.147	$ 8.165	$1.18	9.35
Sep	2035	7.884	$ 0.075	$ 7.959	$1.18	9.14
Oct	2035	7.682	$ 0.048	$ 7.730	$1.17	8.90
Nov	2035	7.748	$ 0.033	$ 7.781	$1.17	8.95
Dec	2035	7.963	$ 0.058	$ 8.021	$1.18	9.20
Jan	2036	8.009	$ 0.093	$ 8.102	$1.18	9.28
Feb	2036	8.043	$ 0.034	$ 8.078	$1.18	9.26
Mar	2036	7.909	$ 0.020	$ 7.929	$1.18	9.10
Apr	2036	7.599	$ 0.023	$ 7.622	$1.17	8.79
May	2036	7.646	$ 0.049	$ 7.696	$1.17	8.87
Jun	2036	7.702	$ 0.096	$ 7.799	$1.17	8.97
Jul	2036	7.930	$ 0.135	$ 8.065	$1.18	9.24
Aug	2036	7.987	$ 0.150	$ 8.137	$1.18	9.32
Sep	2036	7.948	$ 0.089	$ 8.037	$1.18	9.22
Oct	2036	7.896	$ 0.076	$ 7.971	$1.18	9.15
Nov	2036	8.002	$ 0.051	$ 8.053	$1.18	9.23
Dec	2036	8.368	$ 0.064	$ 8.432	$1.19	9.62
Jan	2037	8.526	$ 0.105	$ 8.631	$1.19	9.82
Feb	2037	8.579	$ 0.081	$ 8.661	$1.19	9.86
Mar	2037	8.445	$ 0.024	$ 8.477	$1.19	9.67
Apr	2037	8.209	$ 0.021	$ 8.229	$1.18	9.41
May	2037	8.259	$ 0.055	$ 8.314	$1.19	9.50
Jun	2037	8.340	$ 0.111	$ 8.452	$1.19	9.64
Jul	2037	8.699	$ 0.147	$ 8.846	$1.20	10.04
Aug	2037	8.757	$ 0.147	$ 8.904	$1.20	10.10
Sep	2037	8.616	$ 0.096	$ 8.732	$1.20	9.93
Oct	2037	8.542	$ 0.074	$ 8.616	$1.19	9.81
Nov	2037	8.650	$ 0.052	$ 8.702	$1.20	9.90
Dec	2037	9.011	$ 0.078	$ 9.089	$1.20	10.29
Jan	2038	9.175	$ 0.111	$ 9.286	$1.21	10.50
Feb	2038	9.231	$ 0.088	$ 9.319	$1.21	10.53
Mar	2038	9.090	$ 0.026	$ 9.115	$1.21	10.32
Apr	2038	8.779	$ 0.044	$ 8.823	$1.20	10.02
May	2038	8.833	$ 0.060	$ 8.893	$1.20	10.09
Jun	2038	8.897	$ 0.118	$ 9.015	$1.20	10.22
Jul	2038	9.149	$ 0.152	$ 9.301	$1.21	10.51
Aug	2038	9.214	$ 0.145	$ 9.359	$1.21	10.57
Sep	2038	9.007	$ 0.104	$ 9.111	$1.21	10.32
Oct	2038	8.916	$ 0.064	$ 8.980	$1.20	10.18
Nov	2038	9.064	$ 0.073	$ 9.137	$1.21	10.34
Dec	2038	9.388	$ 0.100	$ 9.488	$1.21	10.70
Jan	2039	9.405	$ 0.119	$ 9.524	$1.22	10.74
Feb	2039	9.463	$ 0.101	$ 9.564	$1.22	10.78
Mar	2039	9.237	$ 0.032	$ 9.269	$1.21	10.48
Apr	2039	8.644	$ 0.041	$ 8.685	$1.19	9.88
May	2039	8.694	$ 0.052	$ 8.746	$1.20	9.94
Jun	2039	8.750	$ 0.115	$ 8.865	$1.20	10.06
Jul	2039	8.918	$ 0.129	$ 8.967	$1.20	10.17
Aug	2039	9.603	$ 0.145	$ 9.749	$1.22	10.97
Sep	2039	9.561	$ 0.088	$ 9.649	$1.22	10.87
Oct	2039	9.398	$ 0.081	$ 9.479	$1.21	10.50
Nov	2039	9.310	$ 0.063	$ 9.373	$1.21	10.58
Dec	2039	9.596	$ 0.087	$ 9.683	$1.22	10.90
Jan	2040	9.823	$ 0.098	$ 9.920	$1.23	11.15
Feb	2040	9.874	$ 0.061	$ 9.935	$1.23	11.16
Mar	2040	9.714	$ 0.033	$ 9.747	$1.22	10.97
Apr	2040	9.392	$ 0.013	$ 9.405	$1.21	10.62
May	2040	9.446	$ 0.058	$ 9.504	$1.22	10.72
Jun	2040	9.526	$ 0.108	$ 9.634	$1.22	10.85
Jul	2040	9.875	$ 0.144	$ 10.020	$1.23	11.25
Aug	2040	9.935	$ 0.155	$ 10.090	$1.23	11.32
Sep	2040	9.916	$ 0.098	$ 10.014	$1.23	11.24
Oct	2040	9.694	$ 0.086	$ 9.780	$1.22	11.00
Nov	2040	9.797	$ 0.099	$ 9.866	$1.22	11.09
Dec	2040	10.132	$ 0.111	$ 10.243	$1.23	11.48
Jan	2041	10.303	$ 0.113	$ 10.415	$1.24	11.65
Feb	2041	10.342	$ 0.083	$ 10.425	$1.24	11.66
Mar	2041	10.122	$ 0.037	$ 10.159	$1.23	11.39
Apr	2041	9.753	$ 0.048	$ 9.801	$1.22	11.02
May	2041	9.815	$ 0.061	$ 9.874	$1.22	11.10
Jun	2041	9.918	$ 0.124	$ 10.041	$1.23	11.27
Jul	2041	10.353	$ 0.166	$ 10.519	$1.24	11.76
Aug	2041	10.414	$ 0.158	$ 10.572	$1.24	11.81
Sep	2041	10.418	$ 0.116	$ 10.534	$1.24	11.77
Oct	2041	10.075	$ 0.061	$ 10.137	$1.23	11.37
Nov	2041	10.261	$ 0.077	$ 10.338	$1.24	11.57
Dec	2041	10.551	$ 0.127	$ 10.678	$1.24	11.92
Jan	2042	10.687	$ 0.120	$ 10.807	$1.25	12.05
Feb	2042	10.791	$ 0.089	$ 10.820	$1.25	12.07
Mar	2042	10.504	$ 0.033	$ 10.537	$1.24	11.78
Apr	2042	10.210	$ 0.045	$ 10.255	$1.23	11.49
May	2042	10.273	$ 0.063	$ 10.336	$1.24	11.57
Jun	2042	10.373	$ 0.134	$ 10.507	$1.24	11.75
Jul	2042	10.902	$ 0.168	$ 11.070	$1.25	12.32
Aug	2042	10.971	$ 0.171	$ 11.142	$1.26	12.40
Sep	2042	10.935	$ 0.120	$ 11.055	$1.25	12.31
Oct	2042	10.560	$ 0.080	$ 10.640	$1.24	11.88
Nov	2042	10.618	$ 0.075	$ 10.693	$1.24	11.94
Dec	2042	10.954	$ 0.102	$ 11.055	$1.25	12.31
Jan	2043	11.155	$ 0.105	$ 11.260	$1.26	12.52
Feb	2043	11.191	$ 0.058	$ 11.249	$1.26	12.51
Mar	2043	10.972	$ 0.035	$ 11.007	$1.25	12.26
Apr	2043	10.591	$ 0.028	$ 10.620	$1.24	11.86
May	2043	10.656	$ 0.050	$ 10.707	$1.25	11.95
Jun	2043	10.737	$ 0.106	$ 10.843	$1.25	12.09
Jul	2043	11.261	$ 0.164	$ 11.426	$1.26	12.69
Aug	2043	11.329	$ 0.156	$ 11.485	$1.26	12.75
Sep	2043	11.196	$ 0.091	$ 11.456	$1.26	12.72
Oct	2043	10.942	$ 0.077	$ 11.018	$1.25	12.27
Nov	2043	11.036	$ 0.066	$ 11.103	$1.26	12.36
Dec	2043	11.164	$ 0.097	$ 11.491	$1.26	12.76
Jan	2044	11.212	$ 0.099	$ 11.311	$1.26	12.57
Feb	2044	11.261	$ 0.059	$ 11.320	$1.26	12.58
Mar	2044	11.025	$ 0.025	$ 11.050	$1.25	12.30
Apr	2044	10.824	$ 0.029	$ 10.853	$1.25	12.10
May	2044	10.887	$ 0.040	$ 10.926	$1.25	12.18
Jun	2044	10.952	$ 0.105	$ 11.057	$1.25	12.31
Jul	2044	11.455	$ 0.160	$ 11.615	$1.27	12.88
Aug	2044	11.525	$ 0.162	$ 11.687	$1.27	12.96
Sep	2044	11.504	$ 0.080	$ 11.584	$1.27	12.85
Oct	2044	11.213	$ 0.045	$ 11.258	$1.26	12.52
Nov	2044	11.387	$ 0.060	$ 11.447	$1.26	12.71
Dec	2044	11.740	$ 0.099	$ 11.839	$1.27	13.11
Jan	2045	11.803	$ 0.107	$ 11.910	$1.28	13.19
Feb	2045	11.873	$ 0.056	$ 11.928	$1.28	13.20
Mar	2045	11.683	$ 0.031	$ 11.714	$1.27	12.98
Apr	2045	11.414	$ 0.026	$ 11.440	$1.26	12.70
May	2045	11.474	$ 0.042	$ 11.516	$1.27	12.78
Jun	2045	11.545	$ 0.109	$ 11.654	$1.27	12.92
Jul	2045	11.978	$ 0.157	$ 12.235	$1.28	13.52
Aug	2045	12.154	$ 0.169	$ 12.323	$1.29	13.61
Sep	2045	12.175	$ 0.085	$ 12.259	$1.28	13.54
Oct	2045	11.815	$ 0.062	$ 11.876	$1.27	13.15
Nov	2045	12.005	$ 0.062	$ 12.067	$1.28	13.35
Dec	2045	12.362	$ 0.096	$ 12.458	$1.29	13.75
Jan	2046	12.608	$ 0.115	$ 12.723	$1.30	14.02
Feb	2046	12.647	$ 0.062	$ 12.708	$1.30	14.00
Mar	2046	12.352	$ 0.022	$ 12.374	$1.29	13.66
Apr	2046	12.007	$ 0.018	$ 12.025	$1.28	13.30
May	2046	12.059	$ 0.043	$ 12.103	$1.28	13.38
Jun	2046	12.132	$ 0.110	$ 12.241	$1.28	13.52
Jul	2046	12.749	$ 0.158	$ 12.908	$1.30	14.21
Aug	2046	12.831	$ 0.176	$ 13.007	$1.30	14.31
Sep	2046	12.789	$ 0.081	$ 12.870	$1.30	14.17
Oct	2046	12.385	$ 0.062	$ 12.447	$1.29	13.74
Nov	2046	12.499	$ 0.064	$ 12.563	$1.29	13.85
Dec	2046	12.826	$ 0.103	$ 12.929	$1.30	14.23
Jan	2047	13.168	$ 0.126	$ 13.294	$1.31	14.60
Feb	2047	13.190	$ 0.058	$ 13.248	$1.31	14.56
Mar	2047	12.721	$ 0.019	$ 12.740	$1.30	14.04
Apr	2047	12.424	$ 0.022	$ 12.447	$1.29	13.74
May	2047	12.475	$ 0.039	$ 12.514	$1.29	13.80
Jun	2047	12.548	$ 0.123	$ 12.671	$1.29	13.97
Jul	2047	13.163	$ 0.165	$ 13.327	$1.31	14.64
Aug	2047	13.242	$ 0.182	$ 13.427	$1.31	14.74
Sep	2047	13.239	$ 0.088	$ 13.327	$1.31	14.64
Oct	2047	13.003	$ 0.052	$ 13.055	$1.30	14.36
Nov	2047	13.118	$ 0.052	$ 13.170	$1.31	14.48
Dec	2047	13.170	$ 0.093	$ 13.263	$1.31	14.57
Jan	2048	13.311	$ 0.109	$ 13.420	$1.31	14.73
Feb	2048	13.375	$ 0.036	$ 13.411	$1.31	14.72
Mar	2048	13.073	$ 0.007	$ 13.080	$1.30	14.38
Apr	2048	12.884	$ 0.022	$ 12.906	$1.30	14.21
May	2048	12.957	$ 0.032	$ 12.989	$1.30	14.29
Jun	2048	13.091	$ 0.099	$ 13.190	$1.31	14.50
Jul

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base Htt Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	FGT MMBTU Variable Cost	FGT Variable MMBTU Delivered Costs
Jan	2019	3.130	$ (0.046)	$ 3.084	$0.23	3.29
Feb	2019	2.690	$ (0.019)	$ 2.671	$0.22	2.89
Mar	2019	2.950	$ (0.003)	$ 2.947	$0.22	3.17
Apr	2019	2.650	$ (0.001)	$ 2.649	$0.21	2.86
Mar	2019	2.640	$ 0.005	$ 2.645	$0.21	2.86
Jun	2019	2.400	$ 0.037	$ 2.437	$0.21	2.65
Jul	2019	2.370	$ 0.048	$ 2.418	$0.21	2.63
Aug	2019	2.220	$ 0.056	$ 2.276	$0.21	2.48
Sep	2019	2.560	$ 0.016	$ 2.576	$0.21	2.79
Oct	2019	2.743	$ 0.010	$ 2.753	$0.22	2.97
Nov	2019	2.303	$ 0.012	$ 2.315	$0.21	2.52
Dec	2019	2.495	$ 0.023	$ 2.518	$0.21	2.73
Jan	2020	2.612	$ 0.035	$ 2.647	$0.21	2.86
Feb	2020	2.575	$ 0.024	$ 2.599	$0.21	2.81
Mar	2020	2.462	$ (0.026)	$ 2.442	$0.21	2.65
Apr	2020	2.247	$ (0.019)	$ 2.228	$0.20	2.43
May	2020	2.234	$ 0.005	$ 2.239	$0.20	2.44
Jun	2020	2.278	$ 0.026	$ 2.304	$0.21	2.51
Jul	2020	2.326	$ 0.048	$ 2.374	$0.21	2.58
Aug	2020	2.335	$ 0.055	$ 2.390	$0.21	2.60
Sep	2020	2.318	$ 0.012	$ 2.330	$0.21	2.54
Oct	2020	2.344	$ 0.016	$ 2.360	$0.21	2.57
Nov	2020	2.409	$ 0.025	$ 2.434	$0.21	2.64
Dec	2020	2.578	$ 0.034	$ 2.612	$0.21	2.83
Jan	2021	2.694	$ 0.038	$ 2.732	$0.22	2.95
Feb	2021	2.654	$ 0.033	$ 2.686	$0.22	2.90
Mar	2021	2.538	$ (0.015)	$ 2.523	$0.21	2.73
Apr	2021	2.293	$ (0.021)	$ 2.272	$0.21	2.48
May	2021	2.381	$ 0.005	$ 2.286	$0.21	2.49
Jun	2021	2.320	$ 0.025	$ 2.345	$0.21	2.55
Jul	2021	2.360	$ 0.047	$ 2.407	$0.21	2.62
Aug	2021	2.377	$ 0.058	$ 2.435	$0.21	2.64
Sep	2021	2.384	$ 0.011	$ 2.395	$0.21	2.60
Oct	2021	2.408	$ 0.018	$ 2.426	$0.21	2.64
Nov	2021	2.483	$ 0.027	$ 2.510	$0.21	2.72
Dec	2021	2.648	$ 0.038	$ 2.686	$0.22	2.90
Jan	2022	2.754	$ 0.041	$ 2.795	$0.22	3.01
Feb	2022	2.746	$ 0.036	$ 2.781	$0.22	3.00
Mar	2022	2.688	$ (0.013)	$ 2.675	$0.22	2.89
Apr	2022	2.562	$ (0.016)	$ 2.546	$0.21	2.76
May	2022	2.575	$ 0.007	$ 2.581	$0.21	2.79
Jun	2022	2.622	$ 0.034	$ 2.656	$0.22	2.87
Jul	2022	2.694	$ 0.059	$ 2.753	$0.22	2.97
Aug	2022	2.730	$ 0.066	$ 2.796	$0.22	3.01
Sep	2022	2.742	$ 0.021	$ 2.763	$0.22	2.98
Oct	2022	2.783	$ 0.004	$ 2.787	$0.22	3.01
Nov	2022	2.859	$ 0.034	$ 2.893	$0.22	3.11
Dec	2022	3.054	$ 0.044	$ 3.049	$0.22	3.27
Jan	2023	3.093	$ 0.052	$ 3.145	$0.23	3.37
Feb	2023	3.109	$ 0.047	$ 3.156	$0.23	3.38
Mar	2023	3.044	$ (0.003)	$ 3.042	$0.22	3.27
Apr	2023	2.964	$ (0.008)	$ 2.956	$0.22	3.18
May	2023	2.996	$ 0.016	$ 3.012	$0.22	3.24
Jun	2023	3.052	$ 0.042	$ 3.094	$0.23	3.32
Jul	2023	3.173	$ 0.068	$ 3.242	$0.23	3.47
Aug	2023	3.218	$ 0.076	$ 3.295	$0.23	3.53
Sep	2023	3.214	$ 0.029	$ 3.243	$0.23	3.47
Oct	2023	3.218	$ 0.030	$ 3.248	$0.23	3.48
Nov	2023	3.423	$ 0.037	$ 3.460	$0.24	3.70
Dec	2023	3.514	$ 0.053	$ 3.567	$0.24	3.80
Jan	2024	3.608	$ 0.058	$ 3.666	$0.24	3.91
Feb	2024	3.631	$ 0.050	$ 3.681	$0.24	3.92
Mar	2024	3.618	$ (0.002)	$ 3.616	$0.24	3.86
Apr	2024	3.592	$ (0.007)	$ 3.585	$0.24	3.82
May	2024	3.615	$ 0.017	$ 3.632	$0.24	3.87
Jun	2024	3.685	$ 0.046	$ 3.730	$0.24	3.97
Jul	2024	3.807	$ 0.077	$ 3.883	$0.25	4.13
Aug	2024	3.840	$ 0.077	$ 3.917	$0.25	4.16
Sep	2024	3.802	$ 0.047	$ 3.849	$0.24	4.09
Oct	2024	3.775	$ 0.040	$ 3.815	$0.24	4.06
Nov	2024	3.933	$ 0.044	$ 3.976	$0.25	4.22
Dec	2024	4.077	$ 0.056	$ 4.133	$0.25	4.38
Jan	2025	4.135	$ 0.061	$ 4.196	$0.25	4.45
Feb	2025	4.161	$ 0.055	$ 4.216	$0.25	4.47
Mar	2025	4.084	$ (0.001)	$ 4.083	$0.25	4.33
Apr	2025	4.024	$ (0.011)	$ 4.013	$0.25	4.26
May	2025	4.047	$ 0.016	$ 4.063	$0.25	4.31
Jun	2025	4.077	$ 0.054	$ 4.131	$0.25	4.38
Jul	2025	4.291	$ 0.078	$ 4.370	$0.26	4.63
Aug	2025	4.327	$ 0.078	$ 4.404	$0.26	4.66
Sep	2025	3.954	$ 0.045	$ 3.999	$0.25	4.25
Oct	2025	3.931	$ 0.035	$ 3.966	$0.25	4.21
Nov	2025	4.044	$ 0.036	$ 4.080	$0.25	4.33
Dec	2025	4.230	$ 0.051	$ 4.282	$0.26	4.54
Jan	2026	4.486	$ 0.057	$ 4.543	$0.26	4.81
Feb	2026	4.511	$ 0.053	$ 4.564	$0.26	4.83
Mar	2026	4.404	$ (0.003)	$ 4.401	$0.26	4.66
Apr	2026	4.329	$ (0.001)	$ 4.328	$0.26	4.58
May	2026	4.356	$ 0.022	$ 4.378	$0.26	4.64
Jun	2026	4.419	$ 0.053	$ 4.471	$0.26	4.73
Jul	2026	4.729	$ 0.077	$ 4.806	$0.27	5.07
Aug	2026	4.766	$ 0.078	$ 4.845	$0.27	5.11
Sep	2026	4.580	$ 0.041	$ 4.621	$0.26	4.89
Oct	2026	4.509	$ 0.034	$ 4.543	$0.26	4.81
Nov	2026	4.580	$ 0.042	$ 4.622	$0.26	4.89
Dec	2026	4.785	$ 0.054	$ 4.839	$0.27	5.11
Jan	2027	4.934	$ 0.062	$ 4.995	$0.27	5.27
Feb	2027	4.964	$ 0.057	$ 5.021	$0.27	5.30
Mar	2027	4.885	$ (0.002)	$ 4.883	$0.27	5.15
Apr	2027	4.712	$ (0.002)	$ 4.710	$0.27	4.98
May	2027	4.745	$ 0.021	$ 4.761	$0.27	5.03
Jun	2027	4.829	$ 0.051	$ 4.880	$0.27	5.15
Jul	2027	5.195	$ 0.079	$ 5.273	$0.28	5.55
Aug	2027	5.231	$ 0.082	$ 5.313	$0.28	5.59
Sep	2027	5.177	$ 0.043	$ 5.220	$0.28	5.50
Oct	2027	4.938	$ 0.038	$ 4.977	$0.27	5.25
Nov	2027	5.014	$ 0.043	$ 5.057	$0.28	5.33
Dec	2027	5.256	$ 0.054	$ 5.309	$0.28	5.59
Jan	2028	5.442	$ 0.063	$ 5.505	$0.29	5.79
Feb	2028	5.475	$ 0.047	$ 5.522	$0.29	5.81
Mar	2028	5.346	$ (0.002)	$ 5.344	$0.28	5.63
Apr	2028	5.311	$ (0.006)	$ 5.305	$0.28	5.59
May	2028	5.344	$ 0.024	$ 5.367	$0.28	5.65
Jun	2028	5.586	$ 0.059	$ 5.645	$0.29	5.93
Jul	2028	5.576	$ 0.091	$ 5.667	$0.29	5.96
Aug	2028	5.618	$ 0.089	$ 5.707	$0.29	6.00
Sep	2028	5.672	$ 0.048	$ 5.720	$0.29	6.01
Oct	2028	5.619	$ 0.044	$ 5.663	$0.29	5.95
Nov	2028	5.676	$ 0.046	$ 5.722	$0.29	6.01
Dec	2028	5.999	$ 0.054	$ 6.053	$0.30	6.35
Jan	2029	6.140	$ 0.075	$ 6.215	$0.30	6.52
Feb	2029	6.178	$ 0.068	$ 6.246	$0.30	6.55
Mar	2029	6.094	$ 0.007	$ 5.902	$0.30	6.20
Apr	2029	5.914	$ 0.002	$ 5.916	$0.30	6.21
May	2029	5.999	$ 0.027	$ 6.026	$0.30	6.33
Jun	2029	6.143	$ 0.062	$ 6.224	$0.30	6.53
Jul	2029	5.802	$ 0.091	$ 5.893	$0.30	6.19
Aug	2029	5.845	$ 0.098	$ 5.943	$0.30	6.24
Sep	2029	6.001	$ 0.053	$ 6.054	$0.30	6.35
Oct	2029	5.987	$ 0.040	$ 6.027	$0.30	6.33
Nov	2029	5.861	$ 0.063	$ 5.924	$0.30	6.22
Dec	2029	6.131	$ 0.062	$ 6.193	$0.30	6.50
Jan	2030	6.179	$ 0.075	$ 6.255	$0.31	6.56
Feb	2030	6.217	$ 0.069	$ 6.287	$0.31	6.59
Mar	2030	6.071	$ 0.004	$ 6.074	$0.30	6.37
Apr	2030	6.028	$ (0.008)	$ 6.020	$0.30	6.32
May	2030	6.064	$ 0.029	$ 6.093	$0.30	6.39
Jun	2030	6.183	$ 0.049	$ 6.232	$0.30	6.54
Jul	2030	6.600	$ 0.104	$ 6.704	$0.32	7.02
Aug	2030	6.649	$ 0.113	$ 6.761	$0.32	7.08
Sep	2030	6.551	$ 0.056	$ 6.607	$0.31	6.92
Oct	2030	6.255	$ 0.053	$ 6.307	$0.31	6.61
Nov	2030	6.140	$ 0.056	$ 6.196	$0.30	6.50
Dec	2030	6.439	$ 0.064	$ 6.503	$0.31	6.81
Jan	2031	6.574	$ 0.098	$ 6.672	$0.32	6.99
Feb	2031	6.615	$ 0.092	$ 6.708	$0.32	7.02
Mar	2031	6.485	$ 0.019	$ 6.504	$0.31	6.82
Apr	2031	6.431	$ 0.000	$ 6.431	$0.31	6.74
May	2031	6.470	$ 0.055	$ 6.525	$0.31	6.84
Jun	2031	6.558	$ 0.082	$ 6.640	$0.31	6.95
Jul	2031	7.001	$ 0.116	$ 7.117	$0.33	7.44
Aug	2031	7.070	$ 0.139	$ 7.210	$0.33	7.54
Sep	2031	6.940	$ 0.086	$ 7.026	$0.32	7.35
Oct	2031	6.724	$ 0.082	$ 6.806	$0.32	7.12
Nov	2031	6.818	$ 0.066	$ 6.884	$0.32	7.20
Dec	2031	7.054	$ 0.082	$ 7.135	$0.33	7.46
Jan	2032	7.049	$ 0.106	$ 7.155	$0.33	7.48
Feb	2032	7.087	$ 0.077	$ 7.165	$0.33	7.49
Mar	2032	7.059	$ 0.050	$ 7.109	$0.33	7.44
Apr	2032	6.843	$ 0.026	$ 6.869	$0.32	7.19
May	2032	6.880	$ 0.069	$ 6.949	$0.32	7.27
Jun	2032	6.924	$ 0.095	$ 7.019	$0.32	7.34
Jul	2032	7.118	$ 0.136	$ 7.254	$0.33	7.58
Aug	2032	7.178	$ 0.159	$ 7.338	$0.33	7.67
Sep	2032	7.075	$ 0.091	$ 7.166	$0.33	7.49
Oct	2032	7.029	$ 0.088	$ 7.117	$0.33	7.44
Nov	2032	7.193	$ 0.053	$ 7.247	$0.33	7.58
Dec	2032	7.210	$ 0.072	$ 7.283	$0.33	7.61
Jan	2033	6.845	$ 0.093	$ 6.938	$0.32	7.26
Feb	2033	6.892	$ 0.091	$ 6.983	$0.32	7.31
Mar	2033	6.825	$ 0.022	$ 6.846	$0.32	7.17
Apr	2033	6.823	$ 0.016	$ 6.839	$0.32	7.16
May	2033	6.867	$ 0.032	$ 6.899	$0.32	7.22
Jun	2033	6.915	$ 0.080	$ 6.995	$0.32	7.32
Jul	2033	7.127	$ 0.119	$ 7.246	$0.33	7.58
Aug	2033	7.189	$ 0.127	$ 7.316	$0.33	7.65
Sep	2033	7.095	$ 0.068	$ 7.163	$0.33	7.49
Oct	2033	7.029	$ 0.053	$ 7.082	$0.33	7.41
Nov	2033	7.196	$ 0.033	$ 7.268	$0.33	7.60
Dec	2033	7.489	$ 0.047	$ 7.537	$0.34	7.87
Jan	2034	7.689	$ 0.080	$ 7.769	$0.34	8.11
Feb	2034	7.447	$ 0.056	$ 7.522	$0.34	7.86
Mar	2034	7.251	$ (0.008)	$ 7.244	$0.33	7.57
Apr	2034	7.165	$ 0.009	$ 7.174	$0.33	7.50
May	2034	7.211	$ 0.039	$ 7.250	$0.33	7.58
Jun	2034	7.259	$ 0.084	$ 7.343	$0.33	7.68
Jul	2034	7.607	$ 0.125	$ 7.732	$0.34	8.07
Aug	2034	7.666	$ 0.144	$ 7.809	$0.34	8.15
Sep	2034	7.520	$ 0.074	$ 7.595	$0.34	7.93
Oct	2034	7.335	$ 0.049	$ 7.384	$0.33	7.72
Nov	2034	7.652	$ 0.034	$ 7.686	$0.34	8.03
Dec	2034	7.921	$ 0.055	$ 7.977	$0.35	8.33
Jan	2035	8.040	$ 0.086	$ 8.126	$0.35	8.48
Feb	2035	8.081	$ 0.065	$ 8.146	$0.35	8.50
Mar	2035	7.835	$ 0.018	$ 7.853	$0.35	8.20
Apr	2035	7.481	$ 0.023	$ 7.505	$0.34	7.84
May	2035	7.528	$ 0.046	$ 7.574	$0.34	7.91
Jun	2035	7.676	$ 0.091	$ 7.667	$0.34	8.01
Jul	2035	7.968	$ 0.130	$ 8.098	$0.35	8.45
Aug	2035	8.018	$ 0.147	$ 8.165	$0.35	8.52
Sep	2035	7.884	$ 0.075	$ 7.959	$0.35	8.31
Oct	2035	7.682	$ 0.048	$ 7.730	$0.34	8.07
Nov	2035	7.748	$ 0.033	$ 7.781	$0.34	8.12
Dec	2035	7.961	$ 0.058	$ 8.021	$0.35	8.37
Jan	2036	8.009	$ 0.093	$ 8.102	$0.35	8.45
Feb	2036	8.043	$ 0.034	$ 8.078	$0.35	8.43
Mar	2036	7.970	$ 0.020	$ 7.929	$0.35	8.28
Apr	2036	7.599	$ 0.023	$ 7.622	$0.34	7.96
May	2036	7.646	$ 0.049	$ 7.696	$0.34	8.04
Jun	2036	7.702	$ 0.096	$ 7.799	$0.34	8.14
Jul	2036	7.930	$ 0.135	$ 8.065	$0.35	8.42
Aug	2036	7.987	$ 0.150	$ 8.137	$0.35	8.49
Sep	2036	7.948	$ 0.089	$ 8.037	$0.35	8.39
Oct	2036	7.896	$ 0.076	$ 7.971	$0.35	8.32
Nov	2036	8.002	$ 0.051	$ 8.053	$0.35	8.40
Dec	2036	8.368	$ 0.064	$ 8.432	$0.36	8.79
Jan	2037	8.526	$ 0.105	$ 8.631	$0.36	9.00
Feb	2037	8.579	$ 0.081	$ 8.661	$0.37	9.03
Mar	2037	8.453	$ 0.024	$ 8.477	$0.36	8.84
Apr	2037	8.209	$ 0.021	$ 8.229	$0.35	8.58
May	2037	8.259	$ 0.055	$ 8.314	$0.36	8.67
Jun	2037	8.342	$ 0.111	$ 8.452	$0.36	8.81
Jul	2037	8.699	$ 0.147	$ 8.846	$0.37	9.22
Aug	2037	8.757	$ 0.147	$ 8.904	$0.37	9.28
Sep	2037	8.636	$ 0.096	$ 8.732	$0.37	9.10
Oct	2037	8.542	$ 0.074	$ 8.616	$0.36	8.98
Nov	2037	8.650	$ 0.052	$ 8.702	$0.37	9.07
Dec	2037	9.011	$ 0.078	$ 9.089	$0.38	9.46
Jan	2038	9.175	$ 0.111	$ 9.286	$0.38	9.67
Feb	2038	9.231	$ 0.088	$ 9.319	$0.38	9.70
Mar	2038	9.090	$ 0.026	$ 9.115	$0.38	9.49
Apr	2038	8.779	$ 0.044	$ 8.823	$0.37	9.19
May	2038	8.833	$ 0.060	$ 8.893	$0.37	9.26
Jun	2038	8.897	$ 0.118	$ 9.015	$0.37	9.39
Jul	2038	9.149	$ 0.152	$ 9.301	$0.38	9.68
Aug	2038	9.214	$ 0.145	$ 9.359	$0.38	9.74
Sep	2038	9.007	$ 0.104	$ 9.111	$0.38	9.49
Oct	2038	8.916	$ 0.064	$ 8.980	$0.37	9.35
Nov	2038	9.064	$ 0.073	$ 9.137	$0.38	9.51
Dec	2038	9.388	$ 0.100	$ 9.488	$0.39	9.87
Jan	2039	9.405	$ 0.119	$ 9.524	$0.39	9.91
Feb	2039	9.463	$ 0.101	$ 9.564	$0.39	9.95
Mar	2039	9.237	$ 0.032	$ 9.269	$0.38	9.65
Apr	2039	8.644	$ 0.041	$ 8.685	$0.37	9.05
May	2039	8.694	$ 0.052	$ 8.746	$0.37	9.11
Jun	2039	8.750	$ 0.115	$ 8.865	$0.37	9.24
Jul	2039	8.838	$ 0.129	$ 8.967	$0.37	9.34
Aug	2039	9.605	$ 0.145	$ 9.749	$0.39	10.14
Sep	2039	9.561	$ 0.088	$ 9.649	$0.39	10.04
Oct	2039	9.206	$ 0.081	$ 9.287	$0.38	9.67
Nov	2039	9.310	$ 0.063	$ 9.373	$0.38	9.76
Dec	2039	9.596	$ 0.087	$ 9.683	$0.39	10.07
Jan	2040	9.823	$ 0.098	$ 9.920	$0.40	10.32
Feb	2040	9.874	$ 0.061	$ 9.935	$0.40	10.33
Mar	2040	9.714	$ 0.033	$ 9.747	$0.39	10.14
Apr	2040	9.392	$ 0.013	$ 9.405	$0.38	9.79
May	2040	9.446	$ 0.058	$ 9.504	$0.39	9.89
Jun	2040	9.526	$ 0.108	$ 9.634	$0.39	10.02
Jul	2040	9.875	$ 0.144	$ 10.020	$0.40	10.42
Aug	2040	9.935	$ 0.155	$ 10.090	$0.40	10.49
Sep	2040	9.916	$ 0.098	$ 10.014	$0.40	10.41
Oct	2040	9.694	$ 0.086	$ 9.780	$0.39	10.17
Nov	2040	9.797	$ 0.069	$ 9.866	$0.40	10.26
Dec	2040	10.152	$ 0.091	$ 10.243	$0.41	10.65
Jan	2041	10.303	$ 0.113	$ 10.415	$0.41	10.82
Feb	2041	10.342	$ 0.083	$ 10.425	$0.41	10.83
Mar	2041	10.122	$ 0.037	$ 10.159	$0.40	10.56
Apr	2041	9.753	$ 0.048	$ 9.801	$0.39	10.19
May	2041	9.813	$ 0.061	$ 9.874	$0.40	10.27
Jun	2041	9.918	$ 0.124	$ 10.041	$0.40	10.44
Jul	2041	10.353	$ 0.166	$ 10.519	$0.41	10.93
Aug	2041	10.415	$ 0.158	$ 10.572	$0.41	10.99
Sep	2041	10.418	$ 0.116	$ 10.534	$0.41	10.95
Oct	2041	10.075	$ 0.061	$ 10.137	$0.40	10.54
Nov	2041	10.261	$ 0.077	$ 10.338	$0.41	10.75
Dec	2041	10.551	$ 0.127	$ 10.678	$0.42	11.09
Jan	2042	10.687	$ 0.120	$ 10.807	$0.42	11.23
Feb	2042	10.731	$ 0.089	$ 10.820	$0.42	11.24
Mar	2042	10.504	$ 0.033	$ 10.537	$0.41	10.95
Apr	2042	10.210	$ 0.045	$ 10.255	$0.41	10.66
May	2042	10.273	$ 0.063	$ 10.336	$0.41	10.74
Jun	2042	10.173	$ 0.134	$ 10.307	$0.41	10.92
Jul	2042	10.902	$ 0.168	$ 11.070	$0.43	11.50
Aug	2042	10.971	$ 0.171	$ 11.142	$0.43	11.57
Sep	2042	10.935	$ 0.120	$ 11.055	$0.43	11.48
Oct	2042	10.560	$ 0.080	$ 10.640	$0.41	11.05
Nov	2042	10.618	$ 0.075	$ 10.693	$0.42	11.11
Dec	2042	10.954	$ 0.102	$ 11.055	$0.43	11.48
Jan	2043	11.155	$ 0.105	$ 11.260	$0.43	11.69
Feb	2043	11.191	$ 0.058	$ 11.249	$0.43	11.68
Mar	2043	10.972	$ 0.035	$ 11.007	$0.42	11.43
Apr	2043	10.591	$ 0.028	$ 10.620	$0.41	11.03
May	2043	10.656	$ 0.050	$ 10.707	$0.42	11.12
Jun	2043	10.737	$ 0.106	$ 10.843	$0.42	11.26
Jul	2043	11.261	$ 0.164	$ 11.426	$0.43	11.86
Aug	2043	11.329	$ 0.156	$ 11.485	$0.44	11.92
Sep	2043	11.365	$ 0.091	$ 11.456	$0.44	11.89
Oct	2043	10.947	$ 0.077	$ 11.018	$0.42	11.44
Nov	2043	11.036	$ 0.066	$ 11.103	$0.43	11.53
Dec	2043	11.394	$ 0.097	$ 11.491	$0.44	11.93
Jan	2044	11.712	$ 0.099	$ 11.811	$0.43	11.74
Feb	2044	11.261	$ 0.059	$ 11.320	$0.43	11.75
Mar	2044	11.025	$ 0.025	$ 11.050	$0.42	11.47
Apr	2044	10.814	$ 0.029	$ 10.853	$0.42	11.27
May	2044	10.887	$ 0.040	$ 10.926	$0.42	11.35
Jun	2044	10.952	$ 0.105	$ 11.057	$0.43	11.48
Jul	2044	11.454	$ 0.160	$ 11.615	$0.44	12.05
Aug	2044	11.525	$ 0.162	$ 11.687	$0.44	12.13
Sep	2044	11.504	$ 0.080	$ 11.584	$0.44	12.02
Oct	2044	11.213	$ 0.045	$ 11.258	$0.43	11.69
Nov	2044	11.387	$ 0.060	$ 11.447	$0.43	11.88
Dec	2044	11.740	$ 0.099	$ 11.839	$0.44	12.28
Jan	2045	11.803	$ 0.107	$ 11.910	$0.45	12.36
Feb	2045	11.873	$ 0.056	$ 11.928	$0.45	12.37
Mar	2045	11.683	$ 0.031	$ 11.714	$0.44	12.16
Apr	2045	11.414	$ 0.026	$ 11.440	$0.43	11.87
May	2045	11.474	$ 0.042	$ 11.516	$0.44	11.95
Jun	2045	11.545	$ 0.109	$ 11.654	$0.44	12.09
Jul	2045	12.078	$ 0.157	$ 12.235	$0.45	12.69
Aug	2045	12.154	$ 0.169	$ 12.323	$0.46	12.78
Sep	2045	12.175	$ 0.085	$ 12.259	$0.46	12.71
Oct	2045	11.813	$ 0.062	$ 11.876	$0.45	12.32
Nov	2045	12.004	$ 0.062	$ 12.067	$0.45	12.52
Dec	2045	12.362	$ 0.096	$ 12.458	$0.46	12.92
Jan	2046	12.608	$ 0.115	$ 12.723	$0.47	13.19
Feb	2046	12.647	$ 0.062	$ 12.708	$0.47	13.17
Mar	2046	12.352	$ 0.022	$ 12.374	$0.46	12.83
Apr	2046	12.007	$ 0.018	$ 12.025	$0.45	12.47
May	2046	12.060	$ 0.043	$ 12.103	$0.45	12.55
Jun	2046	12.132	$ 0.110	$ 12.241	$0.45	12.70
Jul	2046	12.749	$ 0.158	$ 12.908	$0.47	13.38
Aug	2046	12.911	$ 0.176	$ 13.087	$0.47	13.48
Sep	2046	12.789	$ 0.081	$ 12.870	$0.47	13.34
Oct	2046	12.385	$ 0.062	$ 12.447	$0.46	12.91
Nov	2046	12.499	$ 0.064	$ 12.563	$0.46	13.03
Dec	2046	12.826	$ 0.103	$ 12.929	$0.47	13.40
Jan	2047	13.168	$ 0.126	$ 13.294	$0.48	13.78
Feb	2047	13.190	$ 0.058	$ 13.248	$0.48	13.73
Mar	2047	12.721	$ 0.019	$ 12.740	$0.47	13.21
Apr	2047	12.424	$ 0.022	$ 12.447	$0.46	12.91
May	2047	12.475	$ 0.039	$ 12.514	$0.46	12.98
Jun	2047	12.548	$ 0.123	$ 12.671	$0.47	13.14
Jul	2047	13.163	$ 0.165	$ 13.327	$0.48	13.81
Aug	2047	13.245	$ 0.182	$ 13.427	$0.48	13.91
Sep	2047	13.239	$ 0.088	$ 13.327	$0.48	13.81
Oct	2047	13.003	$ 0.052	$ 13.055	$0.48	13.53
Nov	2047	13.118	$ 0.052	$ 13.170	$0.48	13.65
Dec	2047	13.170	$ 0.093	$ 13.263	$0.48	13.74
Jan	2048	13.311	$ 0.109	$ 13.420	$0.48	13.90
Feb	2048	13.375	$ 0.036	$ 13.411	$0.48	13.90
Mar	2048	13.073	$ 0.007	$ 13.080	$0.48	13.56
Apr	2048	12.884	$ 0.022	$ 12.906	$0.47	13.38
May	2048	12.957	$ 0.032	$ 12.989	$0.47	13.46
Jun	2048	13.091	$ 0.099	$ 13.190	$0.48	13.67

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	GSNG MMBTU Variable Cost	GSNG Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.046)	$ 3.064	$0.08	3.14
Feb	2019	2.690	$ (0.019)	$ 2.671	$0.07	2.74
Mar	2019	2.950	$ (0.003)	$ 2.947	$0.08	3.02
Apr	2019	2.650	$ (0.001)	$ 2.649	$0.07	2.72
May	2019	2.640	$ 0.005	$ 2.645	$0.07	2.71
Jun	2019	2.400	$ 0.037	$ 2.437	$0.07	2.50
Jul	2019	2.370	$ 0.048	$ 2.418	$0.07	2.48
Aug	2019	2.220	$ 0.056	$ 2.276	$0.06	2.34
Sep	2019	2.560	$ 0.016	$ 2.576	$0.07	2.64
Oct	2019	2.743	$ 0.010	$ 2.753	$0.07	2.82
Nov	2019	2.303	$ 0.012	$ 2.315	$0.06	2.38
Dec	2019	2.495	$ 0.023	$ 2.518	$0.07	2.59
Jan	2020	2.612	$ 0.035	$ 2.647	$0.07	2.72
Feb	2020	2.575	$ 0.024	$ 2.599	$0.07	2.67
Mar	2020	2.462	$ (0.020)	$ 2.442	$0.07	2.51
Apr	2020	2.247	$ (0.019)	$ 2.228	$0.06	2.29
May	2020	2.234	$ 0.005	$ 2.239	$0.06	2.30
Jun	2020	2.278	$ 0.026	$ 2.304	$0.06	2.37
Jul	2020	2.326	$ 0.048	$ 2.374	$0.06	2.44
Aug	2020	2.335	$ 0.055	$ 2.390	$0.07	2.46
Sep	2020	2.377	$ 0.012	$ 2.330	$0.06	2.39
Oct	2020	2.344	$ 0.016	$ 2.360	$0.06	2.42
Nov	2020	2.409	$ 0.025	$ 2.434	$0.07	2.50
Dec	2020	2.578	$ 0.034	$ 2.612	$0.07	2.68
Jan	2021	2.654	$ 0.038	$ 2.732	$0.07	2.80
Feb	2021	2.654	$ 0.033	$ 2.686	$0.07	2.76
Mar	2021	2.538	$ (0.015)	$ 2.523	$0.07	2.59
Apr	2021	2.293	$ (0.021)	$ 2.272	$0.06	2.33
May	2021	2.281	$ 0.005	$ 2.286	$0.06	2.35
Jun	2021	2.320	$ 0.025	$ 2.345	$0.06	2.41
Jul	2021	2.360	$ 0.047	$ 2.407	$0.07	2.47
Aug	2021	2.377	$ 0.058	$ 2.435	$0.07	2.50
Sep	2021	2.384	$ 0.011	$ 2.395	$0.07	2.46
Oct	2021	2.408	$ 0.018	$ 2.426	$0.07	2.49
Nov	2021	2.483	$ 0.027	$ 2.510	$0.07	2.58
Dec	2021	2.648	$ 0.038	$ 2.686	$0.07	2.76
Jan	2022	2.754	$ 0.041	$ 2.795	$0.07	2.87
Feb	2022	2.746	$ 0.036	$ 2.781	$0.07	2.85
Mar	2022	2.688	$ (0.013)	$ 2.675	$0.07	2.75
Apr	2022	2.562	$ (0.016)	$ 2.546	$0.07	2.61
May	2022	2.575	$ 0.007	$ 2.581	$0.07	2.65
Jun	2022	2.622	$ 0.034	$ 2.656	$0.07	2.73
Jul	2022	2.694	$ 0.059	$ 2.753	$0.07	2.82
Aug	2022	2.730	$ 0.066	$ 2.796	$0.07	2.87
Sep	2022	2.742	$ 0.021	$ 2.763	$0.07	2.84
Oct	2022	2.763	$ 0.024	$ 2.787	$0.07	2.86
Nov	2022	2.893	$ 0.034	$ 2.893	$0.07	2.97
Dec	2022	3.004	$ 0.044	$ 3.049	$0.08	3.13
Jan	2023	3.093	$ 0.052	$ 3.145	$0.08	3.22
Feb	2023	3.109	$ 0.047	$ 3.156	$0.08	3.24
Mar	2023	3.044	$ (0.003)	$ 3.042	$0.08	3.12
Apr	2023	2.864	$ (0.008)	$ 2.856	$0.08	3.03
May	2023	2.996	$ 0.016	$ 3.012	$0.08	3.09
Jun	2023	3.052	$ 0.042	$ 3.094	$0.08	3.17
Jul	2023	3.173	$ 0.068	$ 3.242	$0.08	3.32
Aug	2023	3.219	$ 0.076	$ 3.295	$0.08	3.38
Sep	2023	3.214	$ 0.029	$ 3.243	$0.08	3.32
Oct	2023	3.218	$ 0.030	$ 3.248	$0.08	3.33
Nov	2023	3.423	$ 0.037	$ 3.460	$0.09	3.55
Dec	2023	3.514	$ 0.053	$ 3.567	$0.09	3.65
Jan	2024	3.608	$ 0.058	$ 3.666	$0.09	3.76
Feb	2024	3.631	$ 0.050	$ 3.681	$0.09	3.77
Mar	2024	3.618	$ (0.002)	$ 3.616	$0.09	3.70
Apr	2024	3.592	$ (0.007)	$ 3.585	$0.09	3.67
May	2024	3.615	$ 0.017	$ 3.632	$0.09	3.72
Jun	2024	3.685	$ 0.046	$ 3.730	$0.09	3.82
Jul	2024	3.807	$ 0.077	$ 3.883	$0.09	3.98
Aug	2024	3.840	$ 0.077	$ 3.917	$0.09	4.01
Sep	2024	3.802	$ 0.047	$ 3.849	$0.09	3.94
Oct	2024	3.775	$ 0.040	$ 3.815	$0.09	3.91
Nov	2024	3.933	$ 0.044	$ 3.976	$0.09	4.07
Dec	2024	4.077	$ 0.056	$ 4.133	$0.10	4.23
Jan	2025	4.135	$ 0.061	$ 4.196	$0.10	4.30
Feb	2025	4.161	$ 0.055	$ 4.216	$0.10	4.32
Mar	2025	4.084	$ (0.001)	$ 4.083	$0.10	4.18
Apr	2025	4.024	$ (0.011)	$ 4.013	$0.10	4.11
May	2025	4.047	$ 0.016	$ 4.063	$0.10	4.16
Jun	2025	4.077	$ 0.054	$ 4.131	$0.10	4.23
Jul	2025	4.291	$ 0.078	$ 4.370	$0.10	4.47
Aug	2025	4.327	$ 0.078	$ 4.404	$0.10	4.51
Sep	2025	3.954	$ 0.045	$ 3.999	$0.10	4.09
Oct	2025	3.931	$ 0.035	$ 3.966	$0.09	4.06
Nov	2025	4.044	$ 0.036	$ 4.080	$0.10	4.18
Dec	2025	4.230	$ 0.051	$ 4.282	$0.10	4.38
Jan	2026	4.486	$ 0.057	$ 4.543	$0.11	4.65
Feb	2026	4.511	$ 0.053	$ 4.564	$0.11	4.67
Mar	2026	4.404	$ (0.003)	$ 4.401	$0.10	4.50
Apr	2026	4.329	$ (0.001)	$ 4.328	$0.10	4.43
May	2026	4.356	$ 0.022	$ 4.378	$0.10	4.48
Jun	2026	4.419	$ 0.053	$ 4.471	$0.10	4.58
Jul	2026	4.729	$ 0.077	$ 4.806	$0.11	4.92
Aug	2026	4.766	$ 0.078	$ 4.845	$0.11	4.96
Sep	2026	4.580	$ 0.041	$ 4.621	$0.11	4.73
Oct	2026	4.509	$ 0.034	$ 4.543	$0.11	4.65
Nov	2026	4.580	$ 0.042	$ 4.622	$0.11	4.73
Dec	2026	4.785	$ 0.054	$ 4.839	$0.11	4.95
Jan	2027	4.954	$ 0.052	$ 4.965	$0.11	5.11
Feb	2027	4.964	$ 0.057	$ 5.021	$0.11	5.14
Mar	2027	4.885	$ (0.002)	$ 4.883	$0.11	5.00
Apr	2027	4.713	$ (0.002)	$ 4.710	$0.11	4.82
May	2027	4.740	$ 0.021	$ 4.761	$0.11	4.87
Jun	2027	4.829	$ 0.051	$ 4.880	$0.11	4.99
Jul	2027	5.196	$ 0.079	$ 5.273	$0.12	5.39
Aug	2027	5.231	$ 0.082	$ 5.313	$0.12	5.43
Sep	2027	5.177	$ 0.043	$ 5.220	$0.12	5.34
Oct	2027	4.938	$ 0.038	$ 4.977	$0.11	5.09
Nov	2027	5.015	$ 0.043	$ 5.057	$0.12	5.17
Dec	2027	5.258	$ 0.054	$ 5.309	$0.12	5.43
Jan	2028	5.442	$ 0.063	$ 5.505	$0.12	5.63
Feb	2028	5.475	$ 0.047	$ 5.522	$0.12	5.65
Mar	2028	5.346	$ (0.002)	$ 5.344	$0.12	5.46
Apr	2028	5.311	$ (0.006)	$ 5.305	$0.12	5.42
May	2028	5.344	$ 0.024	$ 5.367	$0.12	5.49
Jun	2028	5.586	$ 0.059	$ 5.645	$0.13	5.77
Jul	2028	5.576	$ 0.091	$ 5.667	$0.13	5.79
Aug	2028	5.618	$ 0.089	$ 5.707	$0.13	5.83
Sep	2028	5.672	$ 0.048	$ 5.720	$0.13	5.85
Oct	2028	5.619	$ 0.044	$ 5.663	$0.13	5.79
Nov	2028	5.676	$ 0.046	$ 5.722	$0.13	5.85
Dec	2028	5.999	$ 0.054	$ 6.053	$0.13	6.19
Jan	2029	6.140	$ 0.075	$ 6.215	$0.14	6.35
Feb	2029	6.178	$ 0.068	$ 6.246	$0.14	6.38
Mar	2029	5.894	$ 0.007	$ 5.902	$0.13	6.03
Apr	2029	5.914	$ 0.002	$ 5.916	$0.13	6.05
May	2029	5.999	$ 0.027	$ 6.026	$0.13	6.16
Jun	2029	6.162	$ 0.062	$ 6.224	$0.14	6.36
Jul	2029	5.802	$ 0.091	$ 5.893	$0.13	6.02
Aug	2029	5.845	$ 0.098	$ 5.943	$0.13	6.08
Sep	2029	6.001	$ 0.053	$ 6.054	$0.13	6.19
Oct	2029	5.987	$ 0.040	$ 6.027	$0.13	6.16
Nov	2029	5.861	$ 0.063	$ 5.924	$0.13	6.06
Dec	2029	6.131	$ 0.062	$ 6.193	$0.14	6.33
Jan	2030	6.179	$ 0.075	$ 6.255	$0.14	6.39
Feb	2030	6.217	$ 0.069	$ 6.287	$0.14	6.43
Mar	2030	6.071	$ 0.004	$ 6.074	$0.13	6.21
Apr	2030	6.028	$ (0.008)	$ 6.020	$0.13	6.15
May	2030	6.084	$ 0.029	$ 6.093	$0.13	6.23
Jun	2030	6.163	$ 0.069	$ 6.232	$0.14	6.37
Jul	2030	6.600	$ 0.104	$ 6.704	$0.15	6.85
Aug	2030	6.649	$ 0.113	$ 6.761	$0.15	6.91
Sep	2030	6.551	$ 0.056	$ 6.607	$0.14	6.75
Oct	2030	6.255	$ 0.053	$ 6.307	$0.14	6.45
Nov	2030	6.140	$ 0.056	$ 6.196	$0.14	6.33
Dec	2030	6.439	$ 0.064	$ 6.503	$0.14	6.65
Jan	2031	6.574	$ 0.098	$ 6.672	$0.15	6.82
Feb	2031	6.615	$ 0.092	$ 6.708	$0.15	6.85
Mar	2031	6.486	$ 0.019	$ 6.504	$0.14	6.65
Apr	2031	6.431	$ 0.000	$ 6.431	$0.14	6.57
May	2031	6.470	$ 0.055	$ 6.525	$0.14	6.67
Jun	2031	6.558	$ 0.082	$ 6.640	$0.15	6.79
Jul	2031	7.001	$ 0.116	$ 7.117	$0.15	7.27
Aug	2031	7.070	$ 0.139	$ 7.210	$0.16	7.37
Sep	2031	6.940	$ 0.086	$ 7.026	$0.15	7.18
Oct	2031	6.723	$ 0.082	$ 6.806	$0.15	6.95
Nov	2031	6.818	$ 0.066	$ 6.884	$0.15	7.03
Dec	2031	7.064	$ 0.082	$ 7.135	$0.15	7.29
Jan	2032	7.049	$ 0.106	$ 7.155	$0.15	7.31
Feb	2032	7.087	$ 0.077	$ 7.165	$0.16	7.32
Mar	2032	7.059	$ 0.050	$ 7.109	$0.15	7.26
Apr	2032	6.843	$ 0.026	$ 6.869	$0.15	7.02
May	2032	6.880	$ 0.069	$ 6.949	$0.15	7.10
Jun	2032	6.924	$ 0.095	$ 7.019	$0.15	7.17
Jul	2032	7.118	$ 0.136	$ 7.254	$0.16	7.41
Aug	2032	7.178	$ 0.159	$ 7.338	$0.16	7.50
Sep	2032	7.075	$ 0.091	$ 7.166	$0.16	7.32
Oct	2032	7.029	$ 0.088	$ 7.117	$0.15	7.27
Nov	2032	7.193	$ 0.053	$ 7.247	$0.16	7.40
Dec	2032	7.210	$ 0.072	$ 7.283	$0.16	7.44
Jan	2033	6.845	$ 0.093	$ 6.938	$0.15	7.09
Feb	2033	6.892	$ 0.091	$ 6.983	$0.15	7.13
Mar	2033	6.825	$ 0.022	$ 6.846	$0.15	7.00
Apr	2033	6.979	$ 0.016	$ 6.839	$0.15	6.99
May	2033	6.867	$ 0.032	$ 6.899	$0.15	7.05
Jun	2033	6.915	$ 0.080	$ 6.995	$0.15	7.15
Jul	2033	7.127	$ 0.119	$ 7.246	$0.16	7.40
Aug	2033	7.189	$ 0.127	$ 7.316	$0.16	7.47
Sep	2033	7.095	$ 0.068	$ 7.163	$0.16	7.32
Oct	2033	7.029	$ 0.053	$ 7.082	$0.15	7.24
Nov	2033	7.236	$ 0.033	$ 7.268	$0.16	7.42
Dec	2033	7.489	$ 0.047	$ 7.537	$0.16	7.70
Jan	2034	7.689	$ 0.080	$ 7.769	$0.17	7.84
Feb	2034	7.467	$ 0.056	$ 7.522	$0.16	7.68
Mar	2034	7.251	$ (0.008)	$ 7.244	$0.16	7.40
Apr	2034	7.165	$ 0.009	$ 7.174	$0.16	7.33
May	2034	7.211	$ 0.039	$ 7.250	$0.16	7.41
Jun	2034	7.259	$ 0.084	$ 7.343	$0.16	7.50
Jul	2034	7.607	$ 0.125	$ 7.732	$0.17	7.90
Aug	2034	7.666	$ 0.144	$ 7.809	$0.17	7.98
Sep	2034	7.520	$ 0.074	$ 7.595	$0.16	7.76
Oct	2034	7.335	$ 0.049	$ 7.384	$0.16	7.54
Nov	2034	7.652	$ 0.034	$ 7.686	$0.16	7.85
Dec	2034	7.921	$ 0.055	$ 7.977	$0.17	8.15
Jan	2035	8.040	$ 0.086	$ 8.126	$0.17	8.30
Feb	2035	8.081	$ 0.065	$ 8.146	$0.17	8.32
Mar	2035	7.835	$ 0.018	$ 7.853	$0.17	8.02
Apr	2035	7.481	$ 0.023	$ 7.505	$0.16	7.67
May	2035	7.476	$ 0.046	$ 7.574	$0.16	7.74
Jun	2035	7.576	$ 0.091	$ 7.667	$0.16	7.83
Jul	2035	7.968	$ 0.130	$ 8.098	$0.17	8.27
Aug	2035	8.018	$ 0.147	$ 8.165	$0.17	8.34
Sep	2035	7.884	$ 0.075	$ 7.959	$0.17	8.13
Oct	2035	7.682	$ 0.048	$ 7.730	$0.17	7.90
Nov	2035	7.748	$ 0.033	$ 7.781	$0.17	7.95
Dec	2035	7.963	$ 0.058	$ 8.021	$0.17	8.19
Jan	2036	8.009	$ 0.093	$ 8.102	$0.17	8.27
Feb	2036	8.045	$ 0.034	$ 8.078	$0.17	8.25
Mar	2036	7.909	$ 0.020	$ 7.929	$0.17	8.10
Apr	2036	7.599	$ 0.023	$ 7.622	$0.16	7.79
May	2036	7.646	$ 0.049	$ 7.696	$0.17	7.86
Jun	2036	7.702	$ 0.096	$ 7.799	$0.17	7.97
Jul	2036	7.930	$ 0.135	$ 8.065	$0.17	8.24
Aug	2036	7.987	$ 0.150	$ 8.137	$0.17	8.31
Sep	2036	7.948	$ 0.089	$ 8.037	$0.17	8.21
Oct	2036	7.896	$ 0.076	$ 7.971	$0.17	8.14
Nov	2036	8.002	$ 0.051	$ 8.053	$0.17	8.22
Dec	2036	8.368	$ 0.064	$ 8.432	$0.18	8.61
Jan	2037	8.526	$ 0.105	$ 8.631	$0.18	8.81
Feb	2037	8.579	$ 0.081	$ 8.661	$0.18	8.84
Mar	2037	8.453	$ 0.024	$ 8.477	$0.18	8.66
Apr	2037	8.209	$ 0.021	$ 8.229	$0.18	8.40
May	2037	8.259	$ 0.055	$ 8.314	$0.18	8.49
Jun	2037	8.340	$ 0.111	$ 8.452	$0.18	8.63
Jul	2037	8.699	$ 0.147	$ 8.846	$0.19	9.03
Aug	2037	8.757	$ 0.147	$ 8.904	$0.19	9.09
Sep	2037	8.656	$ 0.096	$ 8.732	$0.18	8.92
Oct	2037	8.542	$ 0.074	$ 8.616	$0.18	8.80
Nov	2037	8.650	$ 0.052	$ 8.702	$0.18	8.89
Dec	2037	9.011	$ 0.078	$ 9.089	$0.19	9.28
Jan	2038	9.175	$ 0.111	$ 9.286	$0.20	9.48
Feb	2038	9.231	$ 0.088	$ 9.319	$0.20	9.51
Mar	2038	9.090	$ 0.026	$ 9.115	$0.19	9.31
Apr	2038	8.779	$ 0.044	$ 8.823	$0.19	9.01
May	2038	8.833	$ 0.060	$ 8.893	$0.19	9.08
Jun	2038	8.897	$ 0.118	$ 9.015	$0.19	9.20
Jul	2038	9.149	$ 0.152	$ 9.301	$0.20	9.50
Aug	2038	9.214	$ 0.145	$ 9.359	$0.20	9.56
Sep	2038	9.007	$ 0.104	$ 9.111	$0.19	9.30
Oct	2038	8.916	$ 0.064	$ 8.980	$0.19	9.17
Nov	2038	9.064	$ 0.073	$ 9.137	$0.19	9.33
Dec	2038	9.388	$ 0.100	$ 9.488	$0.20	9.69
Jan	2039	9.405	$ 0.119	$ 9.524	$0.20	9.72
Feb	2039	9.463	$ 0.101	$ 9.564	$0.20	9.76
Mar	2039	9.237	$ 0.032	$ 9.269	$0.19	9.46
Apr	2039	8.644	$ 0.041	$ 8.685	$0.18	8.87
May	2039	8.694	$ 0.052	$ 8.746	$0.18	8.93
Jun	2039	8.750	$ 0.115	$ 8.865	$0.19	9.05
Jul	2039	8.938	$ 0.129	$ 8.967	$0.19	9.16
Aug	2039	9.603	$ 0.145	$ 9.749	$0.20	9.95
Sep	2039	9.561	$ 0.088	$ 9.649	$0.20	9.85
Oct	2039	9.356	$ 0.081	$ 9.287	$0.20	9.48
Nov	2039	9.310	$ 0.063	$ 9.373	$0.20	9.57
Dec	2039	9.596	$ 0.087	$ 9.683	$0.20	9.89
Jan	2040	9.823	$ 0.098	$ 9.920	$0.21	10.13
Feb	2040	9.874	$ 0.061	$ 9.935	$0.21	10.14
Mar	2040	9.714	$ 0.033	$ 9.747	$0.20	9.95
Apr	2040	9.392	$ 0.013	$ 9.405	$0.20	9.60
May	2040	9.446	$ 0.058	$ 9.504	$0.20	9.70
Jun	2040	9.526	$ 0.108	$ 9.634	$0.20	9.84
Jul	2040	9.875	$ 0.144	$ 10.020	$0.21	10.23
Aug	2040	9.935	$ 0.155	$ 10.090	$0.21	10.30
Sep	2040	9.816	$ 0.098	$ 10.014	$0.21	10.22
Oct	2040	9.694	$ 0.086	$ 9.780	$0.20	9.98
Nov	2040	9.797	$ 0.069	$ 9.866	$0.21	10.07
Dec	2040	10.132	$ 0.111	$ 10.243	$0.21	10.46
Jan	2041	10.303	$ 0.113	$ 10.415	$0.22	10.63
Feb	2041	10.342	$ 0.083	$ 10.425	$0.22	10.64
Mar	2041	10.122	$ 0.037	$ 10.159	$0.21	10.37
Apr	2041	9.753	$ 0.048	$ 9.801	$0.20	10.01
May	2041	9.813	$ 0.061	$ 9.874	$0.21	10.08
Jun	2041	9.916	$ 0.124	$ 10.041	$0.21	10.25
Jul	2041	10.353	$ 0.166	$ 10.519	$0.22	10.74
Aug	2041	10.414	$ 0.158	$ 10.572	$0.22	10.79
Sep	2041	10.418	$ 0.116	$ 10.534	$0.22	10.75
Oct	2041	10.075	$ 0.061	$ 10.137	$0.21	10.35
Nov	2041	10.361	$ 0.077	$ 10.338	$0.21	10.55
Dec	2041	10.551	$ 0.127	$ 10.678	$0.22	10.90
Jan	2042	10.687	$ 0.120	$ 10.807	$0.22	11.03
Feb	2042	10.731	$ 0.089	$ 10.820	$0.22	11.04
Mar	2042	10.504	$ 0.033	$ 10.537	$0.22	10.76
Apr	2042	10.210	$ 0.045	$ 10.255	$0.21	10.47
May	2042	10.773	$ 0.063	$ 10.336	$0.21	10.55
Jun	2042	10.373	$ 0.134	$ 10.507	$0.22	10.73
Jul	2042	10.902	$ 0.168	$ 11.070	$0.23	11.30
Aug	2042	10.971	$ 0.171	$ 11.142	$0.23	11.37
Sep	2042	10.935	$ 0.120	$ 11.055	$0.23	11.28
Oct	2042	10.560	$ 0.080	$ 10.640	$0.22	10.86
Nov	2042	10.618	$ 0.075	$ 10.693	$0.22	10.91
Dec	2042	10.954	$ 0.102	$ 11.055	$0.23	11.28
Jan	2043	11.155	$ 0.105	$ 11.260	$0.23	11.49
Feb	2043	11.191	$ 0.058	$ 11.249	$0.23	11.48
Mar	2043	10.972	$ 0.035	$ 11.007	$0.23	11.23
Apr	2043	10.591	$ 0.028	$ 10.620	$0.22	10.84
May	2043	10.656	$ 0.050	$ 10.707	$0.22	10.93
Jun	2043	10.737	$ 0.106	$ 10.843	$0.22	11.07
Jul	2043	11.261	$ 0.164	$ 11.426	$0.24	11.66
Aug	2043	11.329	$ 0.156	$ 11.485	$0.24	11.72
Sep	2043	11.366	$ 0.091	$ 11.456	$0.24	11.69
Oct	2043	10.942	$ 0.077	$ 11.018	$0.23	11.25
Nov	2043	11.036	$ 0.066	$ 11.103	$0.23	11.33
Dec	2043	11.364	$ 0.097	$ 11.461	$0.24	11.73
Jan	2044	11.212	$ 0.099	$ 11.311	$0.23	11.54
Feb	2044	11.261	$ 0.059	$ 11.320	$0.23	11.55
Mar	2044	11.025	$ 0.025	$ 11.050	$0.23	11.28
Apr	2044	10.824	$ 0.029	$ 10.853	$0.22	11.08
May	2044	10.887	$ 0.040	$ 10.926	$0.23	11.15
Jun	2044	10.952	$ 0.105	$ 11.057	$0.23	11.29
Jul	2044	11.455	$ 0.160	$ 11.615	$0.24	11.85
Aug	2044	11.525	$ 0.162	$ 11.687	$0.24	11.93
Sep	2044	11.504	$ 0.080	$ 11.584	$0.24	11.82
Oct	2044	11.213	$ 0.045	$ 11.258	$0.23	11.49
Nov	2044	11.387	$ 0.060	$ 11.447	$0.24	11.68
Dec	2044	11.740	$ 0.099	$ 11.839	$0.24	12.08
Jan	2045	11.803	$ 0.107	$ 11.910	$0.24	12.15
Feb	2045	11.873	$ 0.056	$ 11.928	$0.24	12.17
Mar	2045	11.683	$ 0.031	$ 11.714	$0.24	11.95
Apr	2045	11.414	$ 0.026	$ 11.440	$0.24	11.68
May	2045	11.474	$ 0.042	$ 11.516	$0.24	11.75
Jun	2045	11.545	$ 0.109	$ 11.654	$0.24	11.89
Jul	2045	12.078	$ 0.157	$ 12.235	$0.25	12.49
Aug	2045	12.154	$ 0.169	$ 12.323	$0.25	12.58
Sep	2045	12.175	$ 0.085	$ 12.259	$0.25	12.51
Oct	2045	11.815	$ 0.062	$ 11.876	$0.24	12.12
Nov	2045	12.005	$ 0.062	$ 12.067	$0.25	12.31
Dec	2045	12.362	$ 0.096	$ 12.458	$0.25	12.71
Jan	2046	12.608	$ 0.115	$ 12.723	$0.26	12.98
Feb	2046	12.647	$ 0.062	$ 12.708	$0.26	12.97
Mar	2046	12.352	$ 0.022	$ 12.374	$0.25	12.63
Apr	2046	12.007	$ 0.018	$ 12.025	$0.25	12.27
May	2046	12.059	$ 0.043	$ 12.103	$0.25	12.35
Jun	2046	12.132	$ 0.110	$ 12.241	$0.25	12.49
Jul	2046	12.748	$ 0.158	$ 12.908	$0.26	13.17
Aug	2046	12.831	$ 0.176	$ 13.007	$0.27	13.27
Sep	2046	12.789	$ 0.081	$ 12.870	$0.26	13.13
Oct	2046	12.385	$ 0.062	$ 12.447	$0.25	12.70
Nov	2046	12.499	$ 0.064	$ 12.563	$0.26	12.82
Dec	2046	12.826	$ 0.103	$ 12.929	$0.26	13.19
Jan	2047	13.168	$ 0.126	$ 13.294	$0.27	13.56
Feb	2047	13.190	$ 0.058	$ 13.248	$0.27	13.52
Mar	2047	12.721	$ 0.019	$ 12.740	$0.26	13.00
Apr	2047	12.424	$ 0.022	$ 12.447	$0.25	12.70
May	2047	12.475	$ 0.039	$ 12.514	$0.26	12.77
Jun	2047	12.548	$ 0.123	$ 12.671	$0.26	12.93
Jul	2047	13.163	$ 0.165	$ 13.327	$0.27	13.60
Aug	2047	13.245	$ 0.182	$ 13.427	$0.27	13.70
Sep	2047	13.239	$ 0.088	$ 13.327	$0.27	13.60
Oct	2047	13.003	$ 0.052	$ 13.055	$0.27	13.32
Nov	2047	13.118	$ 0.052	$ 13.170	$0.27	13.44
Dec	2047	13.170	$ 0.093	$ 13.263	$0.27	13.53
Jan	2048	13.311	$ 0.109	$ 13.420	$0.27	13.69
Feb	2048	13.376	$ 0.036	$ 13.411	$0.27	13.68
Mar	2048	13.073	$ 0.007	$ 13.080	$0.27	13.35
Apr	2048	12.884	$ 0.022	$ 12.906	$0.26	13.17
May	2048	12.967	$ 0.032	$ 12.999	$0.26	13.25
Jun	2048	13.091	$ 0.099	$ 13.190	$0.27	13.46

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	GSNG MMBTU Variable Cost	GSNG Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.040)	$ 3.094	$0.13	3.20
Feb	2019	2.690	$ (0.019)	$ 2.671	$0.12	2.79
Mar	2019	2.950	$ (0.003)	$ 2.947	$0.13	3.08
Apr	2019	2.650	$ (0.001)	$ 2.649	$0.12	2.77
May	2019	2.640	$ 0.005	$ 2.645	$0.12	2.76
Jun	2019	2.400	$ 0.037	$ 2.437	$0.11	2.55
Jul	2019	2.370	$ 0.048	$ 2.418	$0.11	2.53
Aug	2019	2.220	$ 0.056	$ 2.276	$0.11	2.38
Sep	2019	2.560	$ 0.016	$ 2.576	$0.12	2.69
Oct	2019	2.743	$ 0.010	$ 2.753	$0.12	2.87
Nov	2019	2.303	$ 0.012	$ 2.315	$0.11	2.42
Dec	2019	2.495	$ 0.023	$ 2.518	$0.11	2.63
Jan	2020	2.612	$ 0.035	$ 2.647	$0.12	2.77
Feb	2020	2.575	$ 0.024	$ 2.599	$0.12	2.72
Mar	2020	2.462	$ (0.020)	$ 2.442	$0.11	2.55
Apr	2020	2.247	$ (0.019)	$ 2.228	$0.10	2.33
May	2020	2.234	$ 0.005	$ 2.239	$0.10	2.34
Jun	2020	2.278	$ 0.026	$ 2.304	$0.11	2.41
Jul	2020	2.326	$ 0.048	$ 2.374	$0.11	2.48
Aug	2020	2.335	$ 0.055	$ 2.390	$0.11	2.50
Sep	2020	2.318	$ 0.012	$ 2.330	$0.11	2.44
Oct	2020	2.344	$ 0.016	$ 2.360	$0.11	2.47
Nov	2020	2.409	$ 0.025	$ 2.434	$0.11	2.54
Dec	2020	2.578	$ 0.034	$ 2.612	$0.12	2.73
Jan	2021	2.694	$ 0.038	$ 2.732	$0.12	2.85
Feb	2021	2.664	$ 0.033	$ 2.686	$0.12	2.81
Mar	2021	2.538	$ (0.015)	$ 2.523	$0.11	2.64
Apr	2021	2.293	$ (0.021)	$ 2.272	$0.11	2.38
May	2021	2.281	$ 0.005	$ 2.286	$0.11	2.39
Jun	2021	2.320	$ 0.025	$ 2.345	$0.11	2.45
Jul	2021	2.360	$ 0.047	$ 2.407	$0.11	2.52
Aug	2021	2.377	$ 0.058	$ 2.435	$0.11	2.55
Sep	2021	2.384	$ 0.011	$ 2.395	$0.11	2.50
Oct	2021	2.408	$ 0.018	$ 2.426	$0.11	2.54
Nov	2021	2.483	$ 0.027	$ 2.510	$0.11	2.62
Dec	2021	2.648	$ 0.038	$ 2.686	$0.12	2.81
Jan	2022	2.754	$ 0.041	$ 2.795	$0.12	2.92
Feb	2022	2.746	$ 0.036	$ 2.781	$0.12	2.90
Mar	2022	2.688	$ (0.013)	$ 2.675	$0.12	2.79
Apr	2022	2.562	$ (0.016)	$ 2.546	$0.11	2.66
May	2022	2.575	$ 0.007	$ 2.581	$0.12	2.70
Jun	2022	2.622	$ 0.034	$ 2.656	$0.12	2.77
Jul	2022	2.694	$ 0.059	$ 2.753	$0.12	2.87
Aug	2022	2.730	$ 0.066	$ 2.796	$0.12	2.92
Sep	2022	2.742	$ 0.021	$ 2.763	$0.12	2.89
Oct	2022	2.763	$ 0.024	$ 2.787	$0.12	2.91
Nov	2022	2.859	$ 0.034	$ 2.893	$0.13	3.02
Dec	2022	2.994	$ 0.044	$ 3.049	$0.13	3.18
Jan	2023	3.093	$ 0.052	$ 3.145	$0.14	3.28
Feb	2023	3.109	$ 0.047	$ 3.156	$0.14	3.29
Mar	2023	3.042	$ (0.003)	$ 3.042	$0.13	3.17
Apr	2023	2.964	$ (0.008)	$ 2.956	$0.13	3.08
May	2023	2.996	$ 0.016	$ 3.012	$0.13	3.14
Jun	2023	3.052	$ 0.042	$ 3.094	$0.13	3.23
Jul	2023	3.173	$ 0.068	$ 3.242	$0.14	3.38
Aug	2023	3.218	$ 0.076	$ 3.295	$0.14	3.44
Sep	2023	3.214	$ 0.029	$ 3.243	$0.14	3.38
Oct	2023	3.218	$ 0.030	$ 3.248	$0.14	3.39
Nov	2023	3.423	$ 0.037	$ 3.460	$0.15	3.61
Dec	2023	3.514	$ 0.053	$ 3.567	$0.15	3.72
Jan	2024	3.608	$ 0.058	$ 3.666	$0.15	3.82
Feb	2024	3.631	$ 0.050	$ 3.681	$0.15	3.83
Mar	2024	3.618	$ (0.002)	$ 3.616	$0.15	3.77
Apr	2024	3.592	$ (0.007)	$ 3.585	$0.15	3.74
May	2024	3.615	$ 0.017	$ 3.632	$0.15	3.78
Jun	2024	3.685	$ 0.046	$ 3.730	$0.16	3.89
Jul	2024	3.807	$ 0.077	$ 3.883	$0.16	4.04
Aug	2024	3.840	$ 0.077	$ 3.917	$0.16	4.08
Sep	2024	3.802	$ 0.047	$ 3.849	$0.16	4.01
Oct	2024	3.775	$ 0.040	$ 3.815	$0.16	3.97
Nov	2024	3.933	$ 0.044	$ 3.976	$0.16	4.14
Dec	2024	4.077	$ 0.056	$ 4.133	$0.17	4.30
Jan	2025	4.135	$ 0.061	$ 4.196	$0.17	4.37
Feb	2025	4.161	$ 0.055	$ 4.216	$0.17	4.39
Mar	2025	4.084	$ (0.001)	$ 4.083	$0.17	4.25
Apr	2025	4.024	$ (0.011)	$ 4.013	$0.17	4.18
May	2025	4.047	$ 0.016	$ 4.063	$0.17	4.23
Jun	2025	4.077	$ 0.054	$ 4.131	$0.17	4.30
Jul	2025	4.291	$ 0.078	$ 4.370	$0.18	4.55
Aug	2025	4.327	$ 0.078	$ 4.404	$0.18	4.58
Sep	2025	3.954	$ 0.045	$ 3.999	$0.16	4.16
Oct	2025	3.931	$ 0.035	$ 3.966	$0.16	4.13
Nov	2025	4.044	$ 0.036	$ 4.080	$0.17	4.25
Dec	2025	4.230	$ 0.051	$ 4.282	$0.17	4.46
Jan	2026	4.486	$ 0.057	$ 4.543	$0.18	4.73
Feb	2026	4.511	$ 0.053	$ 4.564	$0.18	4.75
Mar	2026	4.404	$ (0.003)	$ 4.401	$0.18	4.58
Apr	2026	4.329	$ (0.001)	$ 4.328	$0.18	4.50
May	2026	4.356	$ 0.022	$ 4.378	$0.18	4.56
Jun	2026	4.419	$ 0.053	$ 4.471	$0.18	4.65
Jul	2026	4.729	$ 0.077	$ 4.806	$0.19	5.00
Aug	2026	4.766	$ 0.078	$ 4.845	$0.19	5.04
Sep	2026	4.580	$ 0.041	$ 4.621	$0.19	4.81
Oct	2026	4.509	$ 0.034	$ 4.543	$0.18	4.73
Nov	2026	4.580	$ 0.042	$ 4.622	$0.19	4.81
Dec	2026	4.785	$ 0.054	$ 4.839	$0.19	5.03
Jan	2027	4.934	$ 0.062	$ 4.995	$0.20	5.19
Feb	2027	4.964	$ 0.057	$ 5.021	$0.20	5.22
Mar	2027	4.885	$ (0.002)	$ 4.883	$0.20	5.08
Apr	2027	4.712	$ (0.002)	$ 4.710	$0.19	4.90
May	2027	4.740	$ 0.021	$ 4.761	$0.19	4.95
Jun	2027	4.829	$ 0.051	$ 4.880	$0.20	5.08
Jul	2027	5.195	$ 0.079	$ 5.273	$0.21	5.48
Aug	2027	5.231	$ 0.082	$ 5.313	$0.21	5.52
Sep	2027	5.177	$ 0.043	$ 5.220	$0.21	5.43
Oct	2027	4.938	$ 0.038	$ 4.977	$0.20	5.18
Nov	2027	5.014	$ 0.043	$ 5.057	$0.20	5.26
Dec	2027	5.256	$ 0.054	$ 5.309	$0.21	5.52
Jan	2028	5.442	$ 0.063	$ 5.505	$0.22	5.72
Feb	2028	5.475	$ 0.047	$ 5.522	$0.22	5.74
Mar	2028	5.346	$ (0.002)	$ 5.344	$0.21	5.56
Apr	2028	5.311	$ (0.006)	$ 5.305	$0.21	5.52
May	2028	5.344	$ 0.024	$ 5.367	$0.21	5.58
Jun	2028	5.586	$ 0.059	$ 5.645	$0.22	5.87
Jul	2028	5.576	$ 0.091	$ 5.667	$0.22	5.89
Aug	2028	5.618	$ 0.089	$ 5.707	$0.22	5.93
Sep	2028	5.672	$ 0.048	$ 5.720	$0.22	5.94
Oct	2028	5.619	$ 0.044	$ 5.663	$0.22	5.89
Nov	2028	5.676	$ 0.046	$ 5.722	$0.22	5.95
Dec	2028	5.999	$ 0.054	$ 6.053	$0.24	6.29
Jan	2029	6.140	$ 0.075	$ 6.215	$0.24	6.46
Feb	2029	6.178	$ 0.068	$ 6.246	$0.24	6.49
Mar	2029	5.964	$ 0.007	$ 5.902	$0.23	6.13
Apr	2029	5.914	$ 0.002	$ 5.916	$0.23	6.15
May	2029	5.999	$ 0.027	$ 6.026	$0.24	6.26
Jun	2029	6.143	$ 0.062	$ 6.224	$0.24	6.47
Jul	2029	5.802	$ 0.091	$ 5.893	$0.23	6.12
Aug	2029	5.845	$ 0.098	$ 5.943	$0.23	6.18
Sep	2029	6.001	$ 0.053	$ 6.054	$0.24	6.29
Oct	2029	5.987	$ 0.040	$ 6.027	$0.24	6.26
Nov	2029	5.861	$ 0.063	$ 5.924	$0.23	6.16
Dec	2029	6.131	$ 0.062	$ 6.193	$0.24	6.43
Jan	2030	6.179	$ 0.075	$ 6.255	$0.24	6.50
Feb	2030	6.217	$ 0.069	$ 6.287	$0.24	6.53
Mar	2030	6.071	$ 0.004	$ 6.074	$0.24	6.31
Apr	2030	6.028	$ (0.008)	$ 6.020	$0.23	6.25
May	2030	6.064	$ 0.029	$ 6.093	$0.24	6.33
Jun	2030	6.163	$ 0.069	$ 6.232	$0.24	6.47
Jul	2030	6.600	$ 0.104	$ 6.704	$0.26	6.96
Aug	2030	6.649	$ 0.113	$ 6.761	$0.26	7.02
Sep	2030	6.551	$ 0.056	$ 6.607	$0.26	6.86
Oct	2030	6.255	$ 0.053	$ 6.307	$0.24	6.55
Nov	2030	6.140	$ 0.056	$ 6.196	$0.24	6.44
Dec	2030	6.439	$ 0.064	$ 6.503	$0.25	6.75
Jan	2031	6.574	$ 0.098	$ 6.672	$0.26	6.93
Feb	2031	6.615	$ 0.092	$ 6.708	$0.26	6.97
Mar	2031	6.485	$ 0.019	$ 6.504	$0.25	6.76
Apr	2031	6.431	$ 0.000	$ 6.431	$0.25	6.68
May	2031	6.470	$ 0.055	$ 6.525	$0.25	6.78
Jun	2031	6.558	$ 0.082	$ 6.640	$0.26	6.90
Jul	2031	7.001	$ 0.116	$ 7.117	$0.27	7.39
Aug	2031	7.070	$ 0.139	$ 7.210	$0.28	7.49
Sep	2031	6.940	$ 0.086	$ 7.026	$0.27	7.30
Oct	2031	6.775	$ 0.082	$ 6.856	$0.26	7.07
Nov	2031	6.818	$ 0.066	$ 6.884	$0.26	7.15
Dec	2031	7.054	$ 0.082	$ 7.135	$0.27	7.41
Jan	2032	7.049	$ 0.106	$ 7.155	$0.27	7.43
Feb	2032	7.087	$ 0.077	$ 7.165	$0.27	7.44
Mar	2032	7.059	$ 0.050	$ 7.109	$0.27	7.38
Apr	2032	6.843	$ 0.026	$ 6.869	$0.26	7.13
May	2032	6.880	$ 0.069	$ 6.949	$0.27	7.22
Jun	2032	6.924	$ 0.095	$ 7.019	$0.27	7.29
Jul	2032	7.118	$ 0.136	$ 7.254	$0.28	7.53
Aug	2032	7.178	$ 0.159	$ 7.338	$0.28	7.62
Sep	2032	7.075	$ 0.091	$ 7.166	$0.27	7.44
Oct	2032	7.029	$ 0.088	$ 7.117	$0.27	7.39
Nov	2032	7.193	$ 0.053	$ 7.247	$0.28	7.52
Dec	2032	7.210	$ 0.072	$ 7.283	$0.28	7.56
Jan	2033	6.845	$ 0.093	$ 6.938	$0.27	7.20
Feb	2033	6.892	$ 0.091	$ 6.983	$0.27	7.25
Mar	2033	6.825	$ 0.022	$ 6.846	$0.26	7.11
Apr	2033	6.823	$ 0.016	$ 6.839	$0.26	7.10
May	2033	6.867	$ 0.032	$ 6.899	$0.27	7.16
Jun	2033	6.915	$ 0.080	$ 6.995	$0.27	7.26
Jul	2033	7.127	$ 0.119	$ 7.246	$0.28	7.52
Aug	2033	7.189	$ 0.127	$ 7.316	$0.28	7.60
Sep	2033	7.095	$ 0.068	$ 7.163	$0.27	7.44
Oct	2033	7.029	$ 0.053	$ 7.082	$0.27	7.35
Nov	2033	7.194	$ 0.033	$ 7.266	$0.28	7.55
Dec	2033	7.489	$ 0.047	$ 7.537	$0.29	7.82
Jan	2034	7.689	$ 0.080	$ 7.769	$0.30	8.06
Feb	2034	7.467	$ 0.056	$ 7.522	$0.29	7.81
Mar	2034	7.251	$ (0.008)	$ 7.244	$0.28	7.52
Apr	2034	7.165	$ 0.009	$ 7.174	$0.27	7.45
May	2034	7.211	$ 0.039	$ 7.250	$0.28	7.53
Jun	2034	7.259	$ 0.084	$ 7.343	$0.28	7.62
Jul	2034	7.607	$ 0.125	$ 7.732	$0.29	8.03
Aug	2034	7.666	$ 0.144	$ 7.809	$0.30	8.11
Sep	2034	7.520	$ 0.074	$ 7.595	$0.29	7.88
Oct	2034	7.335	$ 0.049	$ 7.384	$0.28	7.67
Nov	2034	7.652	$ 0.034	$ 7.686	$0.29	7.98
Dec	2034	7.921	$ 0.055	$ 7.977	$0.30	8.28
Jan	2035	8.040	$ 0.086	$ 8.126	$0.31	8.43
Feb	2035	8.081	$ 0.065	$ 8.146	$0.31	8.45
Mar	2035	7.835	$ 0.018	$ 7.853	$0.30	8.15
Apr	2035	7.481	$ 0.023	$ 7.505	$0.29	7.79
May	2035	7.528	$ 0.046	$ 7.574	$0.29	7.86
Jun	2035	7.576	$ 0.091	$ 7.667	$0.29	7.96
Jul	2035	7.968	$ 0.130	$ 8.098	$0.31	8.40
Aug	2035	8.018	$ 0.147	$ 8.165	$0.31	8.47
Sep	2035	7.884	$ 0.075	$ 7.959	$0.30	8.26
Oct	2035	7.682	$ 0.048	$ 7.730	$0.29	8.02
Nov	2035	7.748	$ 0.033	$ 7.781	$0.30	8.08
Dec	2035	7.963	$ 0.058	$ 8.021	$0.30	8.33
Jan	2036	8.009	$ 0.093	$ 8.102	$0.31	8.41
Feb	2036	8.043	$ 0.034	$ 8.078	$0.31	8.38
Mar	2036	7.900	$ 0.020	$ 7.929	$0.30	8.23
Apr	2036	7.599	$ 0.023	$ 7.622	$0.29	7.91
May	2036	7.646	$ 0.049	$ 7.696	$0.29	7.99
Jun	2036	7.702	$ 0.096	$ 7.799	$0.30	8.10
Jul	2036	7.930	$ 0.135	$ 8.065	$0.31	8.37
Aug	2036	7.987	$ 0.150	$ 8.137	$0.31	8.45
Sep	2036	7.948	$ 0.089	$ 8.037	$0.30	8.34
Oct	2036	7.896	$ 0.076	$ 7.971	$0.30	8.27
Nov	2036	8.002	$ 0.051	$ 8.053	$0.31	8.36
Dec	2036	8.368	$ 0.064	$ 8.432	$0.32	8.75
Jan	2037	8.526	$ 0.105	$ 8.631	$0.33	8.96
Feb	2037	8.579	$ 0.081	$ 8.661	$0.33	8.99
Mar	2037	8.453	$ 0.024	$ 8.477	$0.32	8.80
Apr	2037	8.209	$ 0.021	$ 8.229	$0.31	8.54
May	2037	8.259	$ 0.055	$ 8.314	$0.31	8.63
Jun	2037	8.342	$ 0.111	$ 8.452	$0.32	8.77
Jul	2037	8.699	$ 0.147	$ 8.846	$0.33	9.18
Aug	2037	8.757	$ 0.147	$ 8.904	$0.33	9.24
Sep	2037	8.636	$ 0.096	$ 8.732	$0.33	9.06
Oct	2037	8.429	$ 0.074	$ 8.616	$0.32	8.94
Nov	2037	8.650	$ 0.052	$ 8.702	$0.33	9.03
Dec	2037	9.011	$ 0.078	$ 9.089	$0.34	9.43
Jan	2038	9.174	$ 0.111	$ 9.286	$0.35	9.63
Feb	2038	9.231	$ 0.088	$ 9.319	$0.35	9.67
Mar	2038	9.090	$ 0.026	$ 9.115	$0.34	9.46
Apr	2038	8.779	$ 0.044	$ 8.823	$0.33	9.16
May	2038	8.833	$ 0.060	$ 8.893	$0.33	9.23
Jun	2038	8.897	$ 0.118	$ 9.015	$0.34	9.35
Jul	2038	9.149	$ 0.152	$ 9.301	$0.35	9.65
Aug	2038	9.214	$ 0.145	$ 9.359	$0.35	9.71
Sep	2038	9.007	$ 0.104	$ 9.111	$0.34	9.45
Oct	2038	8.916	$ 0.064	$ 8.980	$0.34	9.32
Nov	2038	9.064	$ 0.073	$ 9.137	$0.34	9.48
Dec	2038	9.388	$ 0.100	$ 9.488	$0.36	9.84
Jan	2039	9.405	$ 0.119	$ 9.524	$0.36	9.88
Feb	2039	9.463	$ 0.101	$ 9.564	$0.36	9.92
Mar	2039	9.237	$ 0.032	$ 9.269	$0.35	9.62
Apr	2039	8.644	$ 0.041	$ 8.685	$0.33	9.01
May	2039	8.694	$ 0.052	$ 8.746	$0.33	9.08
Jun	2039	8.750	$ 0.115	$ 8.865	$0.33	9.20
Jul	2039	8.838	$ 0.129	$ 8.967	$0.34	9.30
Aug	2039	9.005	$ 0.145	$ 9.749	$0.36	10.11
Sep	2039	9.561	$ 0.088	$ 9.649	$0.36	10.01
Oct	2039	9.206	$ 0.081	$ 9.287	$0.35	9.64
Nov	2039	9.110	$ 0.063	$ 9.373	$0.35	9.72
Dec	2039	9.596	$ 0.087	$ 9.683	$0.36	10.04
Jan	2040	9.823	$ 0.098	$ 9.920	$0.37	10.29
Feb	2040	9.874	$ 0.061	$ 9.935	$0.37	10.31
Mar	2040	9.714	$ 0.033	$ 9.747	$0.36	10.11
Apr	2040	9.392	$ 0.013	$ 9.405	$0.35	9.76
May	2040	9.446	$ 0.058	$ 9.504	$0.36	9.86
Jun	2040	9.526	$ 0.108	$ 9.634	$0.36	9.99
Jul	2040	9.875	$ 0.144	$ 10.020	$0.37	10.39
Aug	2040	9.935	$ 0.155	$ 10.090	$0.38	10.47
Sep	2040	9.916	$ 0.098	$ 10.014	$0.37	10.39
Oct	2040	9.694	$ 0.086	$ 9.780	$0.37	10.15
Nov	2040	9.797	$ 0.069	$ 9.866	$0.37	10.23
Dec	2040	10.132	$ 0.111	$ 10.243	$0.38	10.62
Jan	2041	10.303	$ 0.113	$ 10.415	$0.39	10.80
Feb	2041	10.342	$ 0.083	$ 10.425	$0.39	10.81
Mar	2041	10.122	$ 0.037	$ 10.159	$0.38	10.54
Apr	2041	9.753	$ 0.048	$ 9.801	$0.37	10.17
May	2041	9.813	$ 0.061	$ 9.874	$0.37	10.24
Jun	2041	9.918	$ 0.124	$ 10.041	$0.37	10.42
Jul	2041	10.353	$ 0.166	$ 10.519	$0.39	10.91
Aug	2041	10.415	$ 0.158	$ 10.572	$0.39	10.96
Sep	2041	10.418	$ 0.116	$ 10.534	$0.39	10.93
Oct	2041	10.075	$ 0.061	$ 10.137	$0.38	10.51
Nov	2041	10.261	$ 0.077	$ 10.338	$0.38	10.72
Dec	2041	10.551	$ 0.127	$ 10.678	$0.40	11.07
Jan	2042	10.687	$ 0.120	$ 10.807	$0.40	11.21
Feb	2042	10.731	$ 0.089	$ 10.820	$0.40	11.22
Mar	2042	10.494	$ 0.033	$ 10.537	$0.39	10.93
Apr	2042	10.210	$ 0.045	$ 10.255	$0.38	10.64
May	2042	10.273	$ 0.063	$ 10.336	$0.38	10.72
Jun	2042	10.373	$ 0.134	$ 10.507	$0.39	10.90
Jul	2042	10.902	$ 0.168	$ 11.070	$0.41	11.48
Aug	2042	10.971	$ 0.171	$ 11.142	$0.41	11.55
Sep	2042	10.935	$ 0.120	$ 11.055	$0.41	11.46
Oct	2042	10.560	$ 0.080	$ 10.640	$0.40	11.04
Nov	2042	10.618	$ 0.075	$ 10.693	$0.40	11.09
Dec	2042	10.954	$ 0.102	$ 11.055	$0.41	11.46
Jan	2043	11.155	$ 0.105	$ 11.260	$0.42	11.68
Feb	2043	11.191	$ 0.058	$ 11.249	$0.42	11.67
Mar	2043	10.972	$ 0.035	$ 11.007	$0.41	11.41
Apr	2043	10.591	$ 0.028	$ 10.620	$0.39	11.01
May	2043	10.658	$ 0.050	$ 10.707	$0.40	11.10
Jun	2043	10.737	$ 0.106	$ 10.843	$0.40	11.25
Jul	2043	11.261	$ 0.164	$ 11.426	$0.42	11.85
Aug	2043	11.329	$ 0.156	$ 11.485	$0.42	11.91
Sep	2043	11.385	$ 0.091	$ 11.476	$0.42	11.88
Oct	2043	10.943	$ 0.077	$ 11.018	$0.41	11.43
Nov	2043	11.036	$ 0.066	$ 11.103	$0.41	11.51
Dec	2043	11.394	$ 0.097	$ 11.491	$0.42	11.92
Jan	2044	11.212	$ 0.099	$ 11.311	$0.42	11.73
Feb	2044	11.261	$ 0.059	$ 11.320	$0.42	11.74
Mar	2044	11.025	$ 0.025	$ 11.050	$0.41	11.46
Apr	2044	10.824	$ 0.029	$ 10.853	$0.40	11.26
May	2044	10.887	$ 0.040	$ 10.926	$0.41	11.33
Jun	2044	10.952	$ 0.105	$ 11.057	$0.41	11.47
Jul	2044	11.464	$ 0.160	$ 11.615	$0.43	12.04
Aug	2044	11.525	$ 0.162	$ 11.687	$0.43	12.12
Sep	2044	11.504	$ 0.080	$ 11.584	$0.43	12.01
Oct	2044	11.213	$ 0.045	$ 11.258	$0.42	11.67
Nov	2044	11.387	$ 0.060	$ 11.447	$0.42	11.87
Dec	2044	11.740	$ 0.099	$ 11.839	$0.44	12.28
Jan	2045	11.803	$ 0.107	$ 11.910	$0.44	12.35
Feb	2045	11.873	$ 0.056	$ 11.928	$0.44	12.37
Mar	2045	11.683	$ 0.031	$ 11.714	$0.43	12.15
Apr	2045	11.414	$ 0.026	$ 11.440	$0.42	11.86
May	2045	11.474	$ 0.042	$ 11.516	$0.43	11.94
Jun	2045	11.545	$ 0.109	$ 11.654	$0.43	12.08
Jul	2045	12.078	$ 0.157	$ 12.235	$0.45	12.69
Aug	2045	12.154	$ 0.169	$ 12.323	$0.45	12.78
Sep	2045	12.175	$ 0.085	$ 12.259	$0.45	12.71
Oct	2045	11.813	$ 0.062	$ 11.876	$0.44	12.31
Nov	2045	12.006	$ 0.062	$ 12.067	$0.44	12.51
Dec	2045	12.362	$ 0.096	$ 12.458	$0.46	12.92
Jan	2046	12.608	$ 0.115	$ 12.723	$0.47	13.19
Feb	2046	12.647	$ 0.062	$ 12.708	$0.47	13.17
Mar	2046	12.352	$ 0.022	$ 12.374	$0.46	12.83
Apr	2046	12.007	$ 0.018	$ 12.025	$0.44	12.47
May	2046	12.060	$ 0.043	$ 12.103	$0.45	12.55
Jun	2046	12.132	$ 0.110	$ 12.241	$0.45	12.69
Jul	2046	12.749	$ 0.158	$ 12.908	$0.47	13.38
Aug	2046	12.851	$ 0.176	$ 13.027	$0.48	13.48
Sep	2046	12.789	$ 0.081	$ 12.870	$0.47	13.34
Oct	2046	12.385	$ 0.062	$ 12.447	$0.46	12.90
Nov	2046	12.499	$ 0.064	$ 12.563	$0.46	13.02
Dec	2046	12.826	$ 0.103	$ 12.929	$0.47	13.40
Jan	2047	13.168	$ 0.126	$ 13.294	$0.49	13.78
Feb	2047	13.190	$ 0.058	$ 13.248	$0.49	13.73
Mar	2047	12.721	$ 0.019	$ 12.740	$0.47	13.21
Apr	2047	12.424	$ 0.022	$ 12.447	$0.46	12.90
May	2047	12.475	$ 0.039	$ 12.514	$0.46	12.97
Jun	2047	12.548	$ 0.123	$ 12.671	$0.47	13.14
Jul	2047	13.163	$ 0.185	$ 13.327	$0.49	13.82
Aug	2047	13.245	$ 0.182	$ 13.427	$0.49	13.92
Sep	2047	13.239	$ 0.088	$ 13.327	$0.49	13.82
Oct	2047	13.003	$ 0.052	$ 13.055	$0.48	13.53
Nov	2047	13.118	$ 0.052	$ 13.170	$0.48	13.65
Dec	2047	13.170	$ 0.093	$ 13.263	$0.49	13.75
Jan	2048	13.311	$ 0.109	$ 13.420	$0.49	13.91
Feb	2048	13.375	$ 0.036	$ 13.411	$0.49	13.90
Mar	2048	13.073	$ 0.007	$ 13.080	$0.48	13.56
Apr	2048	12.884	$ 0.022	$ 12.906	$0.47	13.38
May	2048	12.957	$ 0.032	$ 12.989	$0.48	13.47
Jun	2048	13.091	$ 0.099	$ 13.190	$0.48	13.67

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	GSNG MMBTU Variable Cost	GSNG Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.046)	$ 3.064	$0.91	3.97
Feb	2019	2.690	$ (0.019)	$ 2.671	$0.90	3.57
Mar	2019	2.950	$ (0.003)	$ 2.947	$0.90	3.85
Apr	2019	2.650	$ (0.001)	$ 2.649	$0.90	3.55
May	2019	2.640	$ 0.005	$ 2.645	$0.90	3.54
Jun	2019	2.400	$ 0.037	$ 2.437	$0.89	3.33
Jul	2019	2.370	$ 0.048	$ 2.418	$0.89	3.31
Aug	2019	2.220	$ 0.056	$ 2.276	$0.89	3.17
Sep	2019	2.560	$ 0.016	$ 2.576	$0.90	3.47
Oct	2019	2.743	$ 0.010	$ 2.753	$0.90	3.65
Nov	2019	2.303	$ 0.012	$ 2.315	$0.89	3.21
Dec	2019	2.495	$ 0.023	$ 2.518	$0.90	3.41
Jan	2020	2.612	$ 0.035	$ 2.647	$0.90	3.55
Feb	2020	2.575	$ 0.024	$ 2.599	$0.90	3.50
Mar	2020	2.462	$ (0.020)	$ 2.442	$0.89	3.34
Apr	2020	2.247	$ (0.019)	$ 2.228	$0.89	3.12
May	2020	2.234	$ 0.005	$ 2.239	$0.89	3.13
Jun	2020	2.278	$ 0.026	$ 2.304	$0.89	3.20
Jul	2020	2.326	$ 0.048	$ 2.374	$0.89	3.27
Aug	2020	2.335	$ 0.055	$ 2.390	$0.89	3.28
Sep	2020	2.318	$ 0.012	$ 2.330	$0.89	3.22
Oct	2020	2.344	$ 0.016	$ 2.360	$0.89	3.25
Nov	2020	2.409	$ 0.025	$ 2.434	$0.89	3.33
Dec	2020	2.578	$ 0.034	$ 2.612	$0.90	3.51
Jan	2021	2.694	$ 0.038	$ 2.732	$0.90	3.63
Feb	2021	2.664	$ 0.033	$ 2.698	$0.90	3.58
Mar	2021	2.538	$ (0.015)	$ 2.523	$0.90	3.42
Apr	2021	2.293	$ (0.021)	$ 2.272	$0.89	3.16
May	2021	2.281	$ 0.005	$ 2.286	$0.89	3.18
Jun	2021	2.320	$ 0.025	$ 2.345	$0.89	3.24
Jul	2021	2.360	$ 0.047	$ 2.407	$0.89	3.30
Aug	2021	2.377	$ 0.058	$ 2.435	$0.89	3.33
Sep	2021	2.384	$ 0.011	$ 2.395	$0.89	3.29
Oct	2021	2.408	$ 0.018	$ 2.426	$0.89	3.32
Nov	2021	2.483	$ 0.027	$ 2.510	$0.90	3.41
Dec	2021	2.648	$ 0.038	$ 2.686	$0.90	3.58
Jan	2022	2.754	$ 0.041	$ 2.795	$0.90	3.70
Feb	2022	2.746	$ 0.036	$ 2.781	$0.90	3.68
Mar	2022	2.688	$ (0.013)	$ 2.675	$0.90	3.57
Apr	2022	2.562	$ (0.016)	$ 2.546	$0.90	3.44
May	2022	2.575	$ 0.007	$ 2.581	$0.90	3.48
Jun	2022	2.622	$ 0.034	$ 2.656	$0.90	3.55
Jul	2022	2.694	$ 0.059	$ 2.753	$0.90	3.65
Aug	2022	2.730	$ 0.066	$ 2.796	$0.90	3.70
Sep	2022	2.742	$ 0.021	$ 2.763	$0.90	3.66
Oct	2022	2.763	$ 0.024	$ 2.787	$0.90	3.69
Nov	2022	2.859	$ 0.034	$ 2.893	$0.90	3.80
Dec	2022	3.004	$ 0.044	$ 3.049	$0.91	3.95
Jan	2023	3.093	$ 0.052	$ 3.145	$0.91	4.05
Feb	2023	3.109	$ 0.047	$ 3.156	$0.91	4.06
Mar	2023	3.044	$ (0.003)	$ 3.042	$0.91	3.95
Apr	2023	2.964	$ (0.006)	$ 2.958	$0.90	3.86
May	2023	2.996	$ 0.016	$ 3.012	$0.90	3.92
Jun	2023	3.052	$ 0.042	$ 3.094	$0.91	4.00
Jul	2023	3.173	$ 0.068	$ 3.242	$0.91	4.15
Aug	2023	3.218	$ 0.076	$ 3.295	$0.91	4.21
Sep	2023	3.214	$ 0.029	$ 3.243	$0.91	4.15
Oct	2023	3.218	$ 0.030	$ 3.248	$0.91	4.16
Nov	2023	3.423	$ 0.037	$ 3.460	$0.91	4.37
Dec	2023	3.514	$ 0.053	$ 3.567	$0.92	4.48
Jan	2024	3.608	$ 0.058	$ 3.666	$0.92	4.58
Feb	2024	3.631	$ 0.050	$ 3.681	$0.92	4.60
Mar	2024	3.618	$ (0.002)	$ 3.616	$0.92	4.53
Apr	2024	3.592	$ (0.007)	$ 3.585	$0.92	4.50
May	2024	3.615	$ 0.017	$ 3.632	$0.92	4.55
Jun	2024	3.685	$ 0.046	$ 3.730	$0.92	4.65
Jul	2024	3.807	$ 0.077	$ 3.883	$0.92	4.80
Aug	2024	3.840	$ 0.077	$ 3.917	$0.92	4.84
Sep	2024	3.802	$ 0.047	$ 3.849	$0.92	4.77
Oct	2024	3.775	$ 0.040	$ 3.815	$0.92	4.74
Nov	2024	3.933	$ 0.044	$ 3.976	$0.92	4.90
Dec	2024	4.077	$ 0.056	$ 4.133	$0.93	5.06
Jan	2025	4.135	$ 0.061	$ 4.196	$0.93	5.12
Feb	2025	4.161	$ 0.055	$ 4.216	$0.93	5.14
Mar	2025	4.084	$ (0.001)	$ 4.083	$0.93	5.01
Apr	2025	4.014	$ (0.011)	$ 4.013	$0.92	4.94
May	2025	4.047	$ 0.016	$ 4.063	$0.92	4.99
Jun	2025	4.077	$ 0.054	$ 4.131	$0.93	5.06
Jul	2025	4.292	$ 0.078	$ 4.370	$0.93	5.30
Aug	2025	4.327	$ 0.078	$ 4.404	$0.93	5.34
Sep	2025	3.954	$ 0.045	$ 3.999	$0.92	4.92
Oct	2025	3.931	$ 0.035	$ 3.966	$0.92	4.89
Nov	2025	4.044	$ 0.036	$ 4.080	$0.93	5.01
Dec	2025	4.230	$ 0.051	$ 4.282	$0.93	5.21
Jan	2026	4.486	$ 0.057	$ 4.543	$0.93	5.48
Feb	2026	4.511	$ 0.053	$ 4.564	$0.93	5.50
Mar	2026	4.404	$ (0.003)	$ 4.401	$0.93	5.33
Apr	2026	4.329	$ (0.001)	$ 4.328	$0.93	5.26
May	2026	4.356	$ 0.022	$ 4.378	$0.93	5.31
Jun	2026	4.419	$ 0.053	$ 4.471	$0.93	5.40
Jul	2026	4.729	$ 0.077	$ 4.806	$0.94	5.74
Aug	2026	4.768	$ 0.078	$ 4.845	$0.94	5.78
Sep	2026	4.580	$ 0.041	$ 4.621	$0.94	5.56
Oct	2026	4.509	$ 0.034	$ 4.543	$0.93	5.48
Nov	2026	4.580	$ 0.042	$ 4.622	$0.94	5.56
Dec	2026	4.785	$ 0.054	$ 4.839	$0.94	5.78
Jan	2027	4.934	$ 0.062	$ 4.995	$0.94	5.94
Feb	2027	4.964	$ 0.057	$ 5.021	$0.94	5.96
Mar	2027	4.885	$ (0.002)	$ 4.883	$0.94	5.82
Apr	2027	4.712	$ (0.002)	$ 4.710	$0.94	5.65
May	2027	4.740	$ 0.021	$ 4.761	$0.94	5.70
Jun	2027	4.829	$ 0.051	$ 4.880	$0.94	5.82
Jul	2027	5.195	$ 0.079	$ 5.273	$0.95	6.22
Aug	2027	5.231	$ 0.082	$ 5.313	$0.95	6.26
Sep	2027	5.177	$ 0.043	$ 5.220	$0.95	6.17
Oct	2027	4.938	$ 0.038	$ 4.977	$0.94	5.92
Nov	2027	5.015	$ 0.043	$ 5.057	$0.94	6.00
Dec	2027	5.256	$ 0.054	$ 5.309	$0.95	6.26
Jan	2028	5.442	$ 0.063	$ 5.505	$0.95	6.46
Feb	2028	5.475	$ 0.047	$ 5.522	$0.95	6.47
Mar	2028	5.346	$ (0.002)	$ 5.344	$0.95	6.29
Apr	2028	5.311	$ (0.006)	$ 5.305	$0.95	6.25
May	2028	5.344	$ 0.024	$ 5.367	$0.95	6.32
Jun	2028	5.586	$ 0.059	$ 5.645	$0.95	6.60
Jul	2028	5.576	$ 0.091	$ 5.667	$0.96	6.62
Aug	2028	5.618	$ 0.089	$ 5.707	$0.96	6.66
Sep	2028	5.672	$ 0.048	$ 5.720	$0.96	6.68
Oct	2028	5.619	$ 0.044	$ 5.663	$0.95	6.62
Nov	2028	5.676	$ 0.046	$ 5.722	$0.96	6.68
Dec	2028	5.966	$ 0.054	$ 6.053	$0.96	7.02
Jan	2029	6.140	$ 0.075	$ 6.215	$0.97	7.18
Feb	2029	6.178	$ 0.068	$ 6.246	$0.97	7.21
Mar	2029	5.902	$ 0.000	$ 5.902	$0.96	6.86
Apr	2029	5.914	$ 0.002	$ 5.916	$0.96	6.88
May	2029	5.999	$ 0.027	$ 6.026	$0.96	6.99
Jun	2029	6.162	$ 0.062	$ 6.224	$0.97	7.19
Jul	2029	5.802	$ 0.091	$ 5.893	$0.96	6.85
Aug	2029	5.845	$ 0.098	$ 5.943	$0.96	6.90
Sep	2029	6.001	$ 0.053	$ 6.054	$0.96	7.02
Oct	2029	5.987	$ 0.040	$ 6.027	$0.96	6.99
Nov	2029	5.861	$ 0.063	$ 5.924	$0.96	6.88
Dec	2029	6.131	$ 0.062	$ 6.193	$0.96	7.16
Jan	2030	6.179	$ 0.075	$ 6.255	$0.97	7.22
Feb	2030	6.217	$ 0.069	$ 6.287	$0.97	7.25
Mar	2030	6.071	$ 0.004	$ 6.074	$0.96	7.04
Apr	2030	6.028	$ (0.008)	$ 6.020	$0.96	6.98
May	2030	6.064	$ 0.029	$ 6.093	$0.96	7.06
Jun	2030	6.163	$ 0.069	$ 6.232	$0.97	7.20
Jul	2030	6.600	$ 0.104	$ 6.704	$0.97	7.68
Aug	2030	6.649	$ 0.113	$ 6.761	$0.98	7.74
Sep	2030	6.551	$ 0.056	$ 6.607	$0.97	7.58
Oct	2030	6.255	$ 0.053	$ 6.307	$0.97	7.27
Nov	2030	6.140	$ 0.056	$ 6.196	$0.96	7.16
Dec	2030	6.439	$ 0.064	$ 6.503	$0.97	7.47
Jan	2031	6.574	$ 0.098	$ 6.672	$0.97	7.65
Feb	2031	6.615	$ 0.092	$ 6.708	$0.97	7.68
Mar	2031	6.485	$ 0.019	$ 6.504	$0.97	7.47
Apr	2031	6.431	$ 0.000	$ 6.431	$0.97	7.40
May	2031	6.470	$ 0.055	$ 6.525	$0.97	7.50
Jun	2031	6.558	$ 0.082	$ 6.640	$0.97	7.61
Jul	2031	7.001	$ 0.116	$ 7.117	$0.98	8.10
Aug	2031	7.070	$ 0.139	$ 7.210	$0.98	8.19
Sep	2031	6.940	$ 0.086	$ 7.026	$0.98	8.01
Oct	2031	6.723	$ 0.082	$ 6.806	$0.98	7.78
Nov	2031	6.818	$ 0.066	$ 6.884	$0.98	7.86
Dec	2031	7.054	$ 0.082	$ 7.135	$0.98	8.12
Jan	2032	7.049	$ 0.106	$ 7.155	$0.98	8.14
Feb	2032	7.087	$ 0.077	$ 7.165	$0.98	8.15
Mar	2032	7.059	$ 0.050	$ 7.109	$0.98	8.09
Apr	2032	6.843	$ 0.026	$ 6.869	$0.98	7.85
May	2032	6.880	$ 0.069	$ 6.949	$0.98	7.93
Jun	2032	6.924	$ 0.095	$ 7.019	$0.98	8.00
Jul	2032	7.118	$ 0.136	$ 7.254	$0.98	8.24
Aug	2032	7.178	$ 0.159	$ 7.338	$0.99	8.32
Sep	2032	7.075	$ 0.091	$ 7.166	$0.98	8.15
Oct	2032	7.029	$ 0.088	$ 7.117	$0.98	8.10
Nov	2032	7.193	$ 0.053	$ 7.247	$0.98	8.23
Dec	2032	7.210	$ 0.072	$ 7.283	$0.99	8.27
Jan	2033	6.845	$ 0.093	$ 6.938	$0.98	7.92
Feb	2033	6.962	$ 0.091	$ 6.983	$0.98	7.96
Mar	2033	6.825	$ 0.022	$ 6.846	$0.98	7.82
Apr	2033	6.823	$ 0.016	$ 6.839	$0.98	7.82
May	2033	6.867	$ 0.032	$ 6.899	$0.98	7.88
Jun	2033	6.915	$ 0.080	$ 6.995	$0.98	7.98
Jul	2033	7.127	$ 0.119	$ 7.246	$0.98	8.23
Aug	2033	7.180	$ 0.127	$ 7.316	$0.99	8.30
Sep	2033	7.095	$ 0.068	$ 7.163	$0.98	8.15
Oct	2033	7.029	$ 0.053	$ 7.082	$0.98	8.06
Nov	2033	7.218	$ 0.033	$ 7.268	$0.99	8.25
Dec	2033	7.489	$ 0.047	$ 7.537	$0.99	8.53
Jan	2034	7.689	$ 0.080	$ 7.769	$0.99	8.76
Feb	2034	7.467	$ 0.056	$ 7.522	$0.99	8.51
Mar	2034	7.251	$ (0.008)	$ 7.244	$0.98	8.23
Apr	2034	7.165	$ 0.009	$ 7.174	$0.98	8.16
May	2034	7.211	$ 0.039	$ 7.250	$0.98	8.23
Jun	2034	7.259	$ 0.084	$ 7.343	$0.99	8.33
Jul	2034	7.607	$ 0.125	$ 7.732	$0.99	8.73
Aug	2034	7.666	$ 0.144	$ 7.809	$1.00	8.80
Sep	2034	7.520	$ 0.074	$ 7.595	$0.99	8.59
Oct	2034	7.335	$ 0.049	$ 7.384	$0.99	8.37
Nov	2034	7.652	$ 0.034	$ 7.686	$0.99	8.68
Dec	2034	7.921	$ 0.055	$ 7.977	$1.00	8.98
Jan	2035	8.040	$ 0.086	$ 8.126	$1.00	9.13
Feb	2035	8.081	$ 0.065	$ 8.146	$1.00	9.15
Mar	2035	7.835	$ 0.018	$ 7.853	$1.00	8.85
Apr	2035	7.481	$ 0.023	$ 7.505	$0.99	8.49
May	2035	7.528	$ 0.046	$ 7.574	$0.99	8.56
Jun	2035	7.576	$ 0.091	$ 7.667	$0.99	8.66
Jul	2035	7.968	$ 0.130	$ 8.098	$1.00	9.10
Aug	2035	8.018	$ 0.147	$ 8.165	$1.00	9.17
Sep	2035	7.884	$ 0.075	$ 7.959	$1.00	8.96
Oct	2035	7.682	$ 0.048	$ 7.730	$0.99	8.72
Nov	2035	7.748	$ 0.033	$ 7.781	$0.99	8.78
Dec	2035	7.963	$ 0.058	$ 8.021	$1.00	9.02
Jan	2036	8.009	$ 0.093	$ 8.102	$1.00	9.10
Feb	2036	8.043	$ 0.034	$ 8.078	$1.00	9.08
Mar	2036	7.929	$ 0.020	$ 7.829	$1.00	8.93
Apr	2036	7.599	$ 0.023	$ 7.622	$0.99	8.61
May	2036	7.646	$ 0.049	$ 7.696	$0.99	8.69
Jun	2036	7.702	$ 0.096	$ 7.799	$1.00	8.79
Jul	2036	7.930	$ 0.135	$ 8.065	$1.00	9.07
Aug	2036	7.987	$ 0.150	$ 8.137	$1.00	9.14
Sep	2036	7.948	$ 0.089	$ 8.037	$1.00	9.04
Oct	2036	7.896	$ 0.076	$ 7.971	$1.00	8.97
Nov	2036	8.002	$ 0.051	$ 8.053	$1.00	9.05
Dec	2036	8.368	$ 0.064	$ 8.432	$1.01	9.44
Jan	2037	8.526	$ 0.105	$ 8.631	$1.01	9.64
Feb	2037	8.579	$ 0.081	$ 8.661	$1.01	9.67
Mar	2037	8.453	$ 0.024	$ 8.477	$1.01	9.48
Apr	2037	8.208	$ 0.021	$ 8.229	$1.00	9.23
May	2037	8.259	$ 0.055	$ 8.314	$1.00	9.32
Jun	2037	8.342	$ 0.111	$ 8.452	$1.01	9.46
Jul	2037	8.698	$ 0.147	$ 8.846	$1.01	9.86
Aug	2037	8.757	$ 0.147	$ 8.904	$1.02	9.92
Sep	2037	8.636	$ 0.096	$ 8.732	$1.01	9.74
Oct	2037	8.542	$ 0.074	$ 8.616	$1.01	9.63
Nov	2037	8.650	$ 0.052	$ 8.702	$1.01	9.71
Dec	2037	9.011	$ 0.078	$ 9.089	$1.02	10.11
Jan	2038	9.175	$ 0.111	$ 9.286	$1.02	10.31
Feb	2038	9.211	$ 0.088	$ 9.319	$1.02	10.34
Mar	2038	9.090	$ 0.026	$ 9.115	$1.02	10.14
Apr	2038	8.779	$ 0.044	$ 8.823	$1.01	9.84
May	2038	8.833	$ 0.060	$ 8.893	$1.02	9.91
Jun	2038	8.897	$ 0.118	$ 9.015	$1.02	10.03
Jul	2038	9.149	$ 0.152	$ 9.301	$1.02	10.32
Aug	2038	9.214	$ 0.145	$ 9.359	$1.02	10.38
Sep	2038	9.007	$ 0.104	$ 9.111	$1.02	10.13
Oct	2038	8.916	$ 0.064	$ 8.980	$1.02	10.00
Nov	2038	9.064	$ 0.073	$ 9.137	$1.02	10.16
Dec	2038	9.388	$ 0.100	$ 9.488	$1.03	10.52
Jan	2039	9.405	$ 0.119	$ 9.524	$1.03	10.55
Feb	2039	9.463	$ 0.101	$ 9.564	$1.03	10.59
Mar	2039	9.237	$ 0.032	$ 9.269	$1.02	10.29
Apr	2039	8.644	$ 0.041	$ 8.685	$1.01	9.70
May	2039	8.694	$ 0.052	$ 8.746	$1.01	9.76
Jun	2039	8.750	$ 0.115	$ 8.865	$1.02	9.88
Jul	2039	8.838	$ 0.129	$ 8.967	$1.02	9.98
Aug	2039	9.005	$ 0.145	$ 9.749	$1.03	10.78
Sep	2039	9.561	$ 0.088	$ 9.649	$1.03	10.68
Oct	2039	9.266	$ 0.081	$ 9.935	$1.04	10.97
Nov	2039	9.310	$ 0.063	$ 9.373	$1.02	10.40
Dec	2039	9.596	$ 0.087	$ 9.683	$1.03	10.71
Jan	2040	9.823	$ 0.098	$ 9.920	$1.04	10.96
Feb	2040	9.874	$ 0.061	$ 9.935	$1.04	10.97
Mar	2040	9.714	$ 0.033	$ 9.747	$1.03	10.78
Apr	2040	9.392	$ 0.013	$ 9.405	$1.03	10.43
May	2040	9.446	$ 0.058	$ 9.504	$1.03	10.53
Jun	2040	9.526	$ 0.108	$ 9.634	$1.03	10.66
Jul	2040	9.875	$ 0.144	$ 10.020	$1.04	11.06
Aug	2040	9.935	$ 0.155	$ 10.090	$1.04	11.13
Sep	2040	9.916	$ 0.098	$ 10.014	$1.04	11.05
Oct	2040	9.694	$ 0.086	$ 9.780	$1.03	10.81
Nov	2040	9.797	$ 0.068	$ 9.865	$1.03	10.90
Dec	2040	10.132	$ 0.111	$ 10.243	$1.04	11.28
Jan	2041	10.303	$ 0.113	$ 10.415	$1.04	11.46
Feb	2041	10.342	$ 0.083	$ 10.425	$1.04	11.47
Mar	2041	10.122	$ 0.037	$ 10.159	$1.04	11.20
Apr	2041	9.753	$ 0.046	$ 9.801	$1.03	10.83
May	2041	9.813	$ 0.061	$ 9.874	$1.03	10.91
Jun	2041	9.916	$ 0.124	$ 10.041	$1.04	11.08
Jul	2041	10.353	$ 0.166	$ 10.519	$1.05	11.57
Aug	2041	10.415	$ 0.158	$ 10.572	$1.05	11.62
Sep	2041	10.418	$ 0.116	$ 10.534	$1.05	11.58
Oct	2041	10.075	$ 0.061	$ 10.137	$1.04	11.18
Nov	2041	10.261	$ 0.077	$ 10.338	$1.04	11.38
Dec	2041	10.551	$ 0.127	$ 10.678	$1.05	11.73
Jan	2042	10.687	$ 0.120	$ 10.807	$1.05	11.86
Feb	2042	10.731	$ 0.089	$ 10.820	$1.05	11.87
Mar	2042	10.504	$ 0.033	$ 10.537	$1.05	11.58
Apr	2042	10.210	$ 0.045	$ 10.255	$1.04	11.30
May	2042	10.273	$ 0.063	$ 10.336	$1.04	11.38
Jun	2042	10.373	$ 0.134	$ 10.507	$1.05	11.55
Jul	2042	10.902	$ 0.168	$ 11.070	$1.06	12.13
Aug	2042	10.971	$ 0.171	$ 11.142	$1.06	12.20
Sep	2042	10.935	$ 0.120	$ 11.055	$1.06	12.11
Oct	2042	10.560	$ 0.080	$ 10.640	$1.05	11.69
Nov	2042	10.618	$ 0.075	$ 10.693	$1.05	11.74
Dec	2042	10.954	$ 0.102	$ 11.055	$1.06	12.11
Jan	2043	11.155	$ 0.105	$ 11.260	$1.06	12.32
Feb	2043	11.191	$ 0.058	$ 11.249	$1.06	12.31
Mar	2043	10.972	$ 0.035	$ 11.007	$1.06	12.06
Apr	2043	10.591	$ 0.028	$ 10.620	$1.05	11.67
May	2043	10.656	$ 0.050	$ 10.707	$1.05	11.76
Jun	2043	10.737	$ 0.106	$ 10.843	$1.05	11.90
Jul	2043	11.261	$ 0.164	$ 11.426	$1.06	12.49
Aug	2043	11.329	$ 0.156	$ 11.485	$1.06	12.55
Sep	2043	11.365	$ 0.091	$ 11.456	$1.06	12.52
Oct	2043	10.947	$ 0.077	$ 11.018	$1.06	12.07
Nov	2043	11.036	$ 0.066	$ 11.103	$1.06	12.16
Dec	2043	11.394	$ 0.097	$ 11.491	$1.06	12.56
Jan	2044	11.212	$ 0.099	$ 11.311	$1.06	12.37
Feb	2044	11.261	$ 0.059	$ 11.320	$1.06	12.38
Mar	2044	11.025	$ 0.025	$ 11.050	$1.06	12.11
Apr	2044	10.814	$ 0.039	$ 10.853	$1.05	11.91
May	2044	10.887	$ 0.040	$ 10.926	$1.05	11.98
Jun	2044	10.952	$ 0.105	$ 11.057	$1.06	12.11
Jul	2044	11.455	$ 0.160	$ 11.615	$1.07	12.68
Aug	2044	11.525	$ 0.162	$ 11.687	$1.07	12.76
Sep	2044	11.504	$ 0.080	$ 11.584	$1.07	12.65
Oct	2044	11.213	$ 0.045	$ 11.258	$1.06	12.32
Nov	2044	11.387	$ 0.060	$ 11.447	$1.06	12.51
Dec	2044	11.740	$ 0.099	$ 11.839	$1.07	12.91
Jan	2045	11.803	$ 0.107	$ 11.910	$1.07	12.98
Feb	2045	11.873	$ 0.056	$ 11.928	$1.07	13.00
Mar	2045	11.683	$ 0.031	$ 11.714	$1.07	12.78
Apr	2045	11.414	$ 0.026	$ 11.440	$1.06	12.50
May	2045	11.474	$ 0.042	$ 11.516	$1.07	12.58
Jun	2045	11.545	$ 0.109	$ 11.654	$1.07	12.72
Jul	2045	12.078	$ 0.157	$ 12.235	$1.08	13.31
Aug	2045	12.154	$ 0.169	$ 12.323	$1.08	13.40
Sep	2045	12.175	$ 0.085	$ 12.259	$1.08	13.34
Oct	2045	11.813	$ 0.062	$ 11.876	$1.07	12.95
Nov	2045	12.006	$ 0.062	$ 12.067	$1.08	13.14
Dec	2045	12.362	$ 0.096	$ 12.458	$1.08	13.54
Jan	2046	12.608	$ 0.115	$ 12.723	$1.09	13.81
Feb	2046	12.647	$ 0.062	$ 12.708	$1.09	13.80
Mar	2046	12.352	$ 0.022	$ 12.374	$1.08	13.46
Apr	2046	12.007	$ 0.018	$ 12.025	$1.07	13.10
May	2046	12.056	$ 0.043	$ 12.103	$1.08	13.18
Jun	2046	12.132	$ 0.110	$ 12.241	$1.08	13.32
Jul	2046	12.749	$ 0.158	$ 12.908	$1.09	14.00
Aug	2046	12.831	$ 0.176	$ 13.007	$1.09	14.10
Sep	2046	12.789	$ 0.081	$ 12.870	$1.09	13.96
Oct	2046	12.385	$ 0.062	$ 12.447	$1.08	13.53
Nov	2046	12.489	$ 0.064	$ 12.563	$1.08	13.65
Dec	2046	12.826	$ 0.103	$ 12.929	$1.09	14.02
Jan	2047	13.168	$ 0.126	$ 13.294	$1.10	14.39
Feb	2047	13.190	$ 0.058	$ 13.248	$1.10	14.35
Mar	2047	12.721	$ 0.019	$ 12.740	$1.09	13.83
Apr	2047	12.424	$ 0.022	$ 12.447	$1.08	13.53
May	2047	12.476	$ 0.039	$ 12.514	$1.08	13.60
Jun	2047	12.548	$ 0.123	$ 12.671	$1.09	13.76
Jul	2047	13.163	$ 0.165	$ 13.327	$1.10	14.43
Aug	2047	13.245	$ 0.182	$ 13.427	$1.10	14.53
Sep	2047	13.198	$ 0.088	$ 13.327	$1.10	14.43
Oct	2047	13.003	$ 0.052	$ 13.055	$1.09	14.15
Nov	2047	13.118	$ 0.052	$ 13.170	$1.10	14.27
Dec	2047	13.170	$ 0.093	$ 13.263	$1.10	14.36
Jan	2048	13.311	$ 0.109	$ 13.420	$1.10	14.52
Feb	2048	13.375	$ 0.036	$ 13.411	$1.10	14.51
Mar	2048	13.073	$ 0.007	$ 13.080	$1.09	14.17
Apr	2048	12.884	$ 0.022	$ 12.906	$1.09	14.00
May	2048	12.957	$ 0.032	$ 12.989	$1.09	14.08
Jun	2048	13.091	$ 0.099	$ 13.190	$1.10	14.29

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis Transco Zone 4	Base Cost Regular Supply Z4	Sabal Trail MMBTU Variable Cost	Sabal Trail Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.055)	$ 3.055	$0.10	3.16
Feb	2019	2.690	$ (0.035)	$ 2.655	$0.09	2.74
Mar	2019	2.950	$ (0.050)	$ 2.900	$0.10	3.00
Apr	2019	2.650	$ (0.030)	$ 2.620	$0.09	2.71
May	2019	2.640	$ (0.004)	$ 2.636	$0.09	2.73
Jun	2019	2.400	$ 0.003	$ 2.403	$0.08	2.48
Jul	2019	2.370	$ 0.011	$ 2.381	$0.08	2.46
Aug	2019	2.289	$ 0.011	$ 2.231	$0.08	2.31
Sep	2019	2.560	$ 0.002	$ 2.562	$0.09	2.65
Oct	2019	2.743	$ (0.030)	$ 2.713	$0.09	2.80
Nov	2019	2.303	$ (0.021)	$ 2.282	$0.08	2.36
Dec	2019	2.495	$ (0.007)	$ 2.488	$0.08	2.57
Jan	2020	2.612	$ (0.009)	$ 2.603	$0.09	2.69
Feb	2020	2.575	$ (0.024)	$ 2.551	$0.09	2.64
Mar	2020	2.462	$ (0.021)	$ 2.441	$0.08	2.52
Apr	2020	2.247	$ (0.051)	$ 2.196	$0.07	2.27
May	2020	2.234	$ (0.050)	$ 2.184	$0.07	2.26
Jun	2020	2.278	$ (0.040)	$ 2.238	$0.08	2.31
Jul	2020	2.326	$ (0.027)	$ 2.299	$0.08	2.38
Aug	2020	2.335	$ (0.006)	$ 2.329	$0.08	2.41
Sep	2020	2.318	$ (0.045)	$ 2.273	$0.08	2.35
Oct	2020	2.344	$ (0.063)	$ 2.281	$0.08	2.36
Nov	2020	2.409	$ (0.031)	$ 2.378	$0.08	2.46
Dec	2020	2.578	$ (0.024)	$ 2.554	$0.09	2.64
Jan	2021	2.684	$ (0.010)	$ 2.684	$0.09	2.77
Feb	2021	2.654	$ (0.026)	$ 2.627	$0.09	2.72
Mar	2021	2.538	$ (0.017)	$ 2.521	$0.09	2.61
Apr	2021	2.365	$ (0.072)	$ 2.221	$0.08	2.30
May	2021	2.281	$ (0.066)	$ 2.215	$0.08	2.29
Jun	2021	2.320	$ (0.048)	$ 2.272	$0.08	2.35
Jul	2021	2.360	$ (0.039)	$ 2.321	$0.08	2.40
Aug	2021	2.377	$ (0.020)	$ 2.358	$0.08	2.44
Sep	2021	2.384	$ (0.054)	$ 2.330	$0.08	2.41
Oct	2021	2.409	$ (0.061)	$ 2.346	$0.08	2.43
Nov	2021	2.483	$ (0.036)	$ 2.446	$0.08	2.53
Dec	2021	2.648	$ (0.023)	$ 2.625	$0.09	2.71
Jan	2022	2.754	$ (0.017)	$ 2.737	$0.09	2.83
Feb	2022	2.746	$ (0.027)	$ 2.719	$0.09	2.81
Mar	2022	2.688	$ (0.029)	$ 2.659	$0.09	2.75
Apr	2022	2.562	$ (0.067)	$ 2.494	$0.08	2.58
May	2022	2.575	$ (0.067)	$ 2.507	$0.08	2.59
Jun	2022	2.622	$ (0.044)	$ 2.578	$0.09	2.67
Jul	2022	2.694	$ (0.024)	$ 2.669	$0.09	2.76
Aug	2022	2.730	$ (0.015)	$ 2.715	$0.09	2.81
Sep	2022	2.742	$ (0.049)	$ 2.693	$0.09	2.78
Oct	2022	2.763	$ (0.058)	$ 2.705	$0.09	2.80
Nov	2022	2.959	$ (0.032)	$ 2.927	$0.10	2.92
Dec	2022	3.004	$ (0.015)	$ 2.990	$0.10	3.09
Jan	2023	3.093	$ (0.019)	$ 3.073	$0.10	3.18
Feb	2023	3.109	$ (0.034)	$ 3.075	$0.10	3.18
Mar	2023	3.044	$ (0.028)	$ 3.016	$0.10	3.12
Apr	2023	2.964	$ (0.068)	$ 2.896	$0.10	2.99
May	2023	2.996	$ (0.064)	$ 2.931	$0.10	3.03
Jun	2023	3.052	$ (0.050)	$ 3.002	$0.10	3.10
Jul	2023	3.173	$ (0.040)	$ 3.134	$0.11	3.24
Aug	2023	3.218	$ (0.029)	$ 3.189	$0.11	3.30
Sep	2023	3.214	$ (0.050)	$ 3.164	$0.11	3.27
Oct	2023	3.218	$ (0.061)	$ 3.158	$0.11	3.26
Nov	2023	3.423	$ (0.046)	$ 3.377	$0.11	3.49
Dec	2023	3.514	$ (0.023)	$ 3.491	$0.12	3.61
Jan	2024	3.608	$ (0.030)	$ 3.578	$0.12	3.70
Feb	2024	3.631	$ (0.044)	$ 3.587	$0.12	3.71
Mar	2024	3.618	$ (0.046)	$ 3.572	$0.12	3.69
Apr	2024	3.592	$ (0.086)	$ 3.506	$0.12	3.62
May	2024	3.615	$ (0.081)	$ 3.533	$0.12	3.65
Jun	2024	3.685	$ (0.060)	$ 3.625	$0.12	3.75
Jul	2024	3.807	$ (0.045)	$ 3.762	$0.13	3.89
Aug	2024	3.840	$ (0.029)	$ 3.811	$0.13	3.94
Sep	2024	3.802	$ (0.060)	$ 3.742	$0.13	3.87
Oct	2024	3.775	$ (0.060)	$ 3.714	$0.12	3.84
Nov	2024	3.933	$ (0.050)	$ 3.883	$0.13	4.01
Dec	2024	4.077	$ (0.038)	$ 4.039	$0.13	4.17
Jan	2025	4.135	$ (0.030)	$ 4.106	$0.14	4.24
Feb	2025	4.161	$ (0.044)	$ 4.117	$0.14	4.25
Mar	2025	4.084	$ (0.048)	$ 4.036	$0.13	4.17
Apr	2025	4.024	$ (0.098)	$ 3.926	$0.13	4.06
May	2025	4.047	$ (0.093)	$ 3.954	$0.13	4.09
Jun	2025	4.077	$ (0.060)	$ 4.018	$0.13	4.15
Jul	2025	4.291	$ (0.038)	$ 4.253	$0.14	4.39
Aug	2025	4.327	$ (0.025)	$ 4.301	$0.14	4.44
Sep	2025	3.954	$ (0.059)	$ 3.895	$0.13	4.03
Oct	2025	3.931	$ (0.078)	$ 3.853	$0.13	3.98
Nov	2025	4.044	$ (0.065)	$ 3.978	$0.13	4.11
Dec	2025	4.230	$ (0.055)	$ 4.176	$0.14	4.32
Jan	2026	4.486	$ (0.045)	$ 4.441	$0.15	4.59
Feb	2026	4.511	$ (0.053)	$ 4.458	$0.15	4.61
Mar	2026	4.404	$ (0.059)	$ 4.345	$0.14	4.49
Apr	2026	4.329	$ (0.089)	$ 4.240	$0.14	4.38
May	2026	4.356	$ (0.088)	$ 4.267	$0.14	4.41
Jun	2026	4.419	$ (0.060)	$ 4.359	$0.15	4.50
Jul	2026	4.729	$ (0.044)	$ 4.685	$0.16	4.84
Aug	2026	4.766	$ (0.038)	$ 4.730	$0.16	4.89
Sep	2026	4.580	$ (0.063)	$ 4.517	$0.15	4.67
Oct	2026	4.509	$ (0.088)	$ 4.421	$0.15	4.57
Nov	2026	4.580	$ (0.064)	$ 4.516	$0.15	4.67
Dec	2026	4.785	$ (0.049)	$ 4.736	$0.16	4.89
Jan	2027	4.854	$ (0.040)	$ 4.894	$0.16	5.06
Feb	2027	4.964	$ (0.052)	$ 4.912	$0.16	5.08
Mar	2027	4.885	$ (0.064)	$ 4.821	$0.16	4.98
Apr	2027	4.713	$ (0.097)	$ 4.615	$0.15	4.77
May	2027	4.740	$ (0.096)	$ 4.644	$0.15	4.80
Jun	2027	4.829	$ (0.060)	$ 4.769	$0.16	4.93
Jul	2027	5.196	$ (0.046)	$ 5.150	$0.17	5.32
Aug	2027	5.231	$ (0.034)	$ 5.197	$0.17	5.37
Sep	2027	5.177	$ (0.066)	$ 5.111	$0.17	5.28
Oct	2027	4.938	$ (0.088)	$ 4.850	$0.16	5.01
Nov	2027	5.015	$ (0.064)	$ 4.951	$0.16	5.12
Dec	2027	5.256	$ (0.047)	$ 5.208	$0.17	5.38
Jan	2028	5.442	$ (0.035)	$ 5.407	$0.18	5.59
Feb	2028	5.475	$ (0.059)	$ 5.416	$0.18	5.60
Mar	2028	5.346	$ (0.060)	$ 5.286	$0.18	5.46
Apr	2028	5.311	$ (0.110)	$ 5.201	$0.17	5.37
May	2028	5.344	$ (0.100)	$ 5.244	$0.17	5.42
Jun	2028	5.586	$ (0.057)	$ 5.529	$0.18	5.71
Jul	2028	5.576	$ (0.036)	$ 5.541	$0.18	5.72
Aug	2028	5.618	$ (0.026)	$ 5.592	$0.19	5.78
Sep	2028	5.672	$ (0.063)	$ 5.610	$0.19	5.80
Oct	2028	5.619	$ (0.086)	$ 5.533	$0.18	5.72
Nov	2028	5.676	$ (0.068)	$ 5.609	$0.19	5.79
Dec	2028	5.999	$ (0.054)	$ 5.945	$0.20	6.14
Jan	2029	6.140	$ (0.034)	$ 6.106	$0.20	6.31
Feb	2029	6.178	$ (0.048)	$ 6.129	$0.20	6.33
Mar	2029	5.894	$ (0.041)	$ 5.853	$0.20	6.03
Apr	2029	5.914	$ (0.109)	$ 5.806	$0.19	6.00
May	2029	5.949	$ (0.104)	$ 5.895	$0.20	6.09
Jun	2029	6.162	$ (0.072)	$ 6.090	$0.20	6.29
Jul	2029	5.802	$ (0.048)	$ 5.754	$0.19	5.94
Aug	2029	5.845	$ (0.033)	$ 5.812	$0.19	6.00
Sep	2029	6.001	$ (0.072)	$ 5.928	$0.20	6.12
Oct	2029	5.987	$ (0.098)	$ 5.889	$0.19	6.08
Nov	2029	5.861	$ (0.044)	$ 5.817	$0.19	6.01
Dec	2029	6.131	$ (0.043)	$ 6.087	$0.20	6.29
Jan	2030	6.179	$ (0.028)	$ 6.151	$0.20	6.35
Feb	2030	6.217	$ (0.042)	$ 6.176	$0.20	6.38
Mar	2030	6.071	$ (0.052)	$ 6.019	$0.20	6.22
Apr	2030	6.028	$ (0.123)	$ 5.905	$0.20	6.10
May	2030	6.064	$ (0.101)	$ 5.963	$0.20	6.16
Jun	2030	6.163	$ (0.047)	$ 6.116	$0.20	6.32
Jul	2030	6.600	$ (0.018)	$ 6.582	$0.22	6.80
Aug	2030	6.649	$ 0.003	$ 6.651	$0.22	6.87
Sep	2030	6.551	$ (0.055)	$ 6.496	$0.21	6.71
Oct	2030	6.255	$ (0.079)	$ 6.175	$0.20	6.38
Nov	2030	6.140	$ (0.043)	$ 6.096	$0.20	6.30
Dec	2030	6.479	$ (0.041)	$ 6.397	$0.21	6.61
Jan	2031	6.574	$ (0.043)	$ 6.531	$0.22	6.75
Feb	2031	6.615	$ (0.053)	$ 6.563	$0.22	6.78
Mar	2031	6.485	$ (0.063)	$ 6.422	$0.21	6.63
Apr	2031	6.431	$ (0.128)	$ 6.302	$0.21	6.51
May	2031	6.470	$ (0.103)	$ 6.367	$0.21	6.58
Jun	2031	6.458	$ (0.062)	$ 6.495	$0.21	6.71
Jul	2031	7.001	$ (0.035)	$ 6.966	$0.23	7.20
Aug	2031	7.070	$ (0.039)	$ 7.032	$0.23	7.26
Sep	2031	6.940	$ (0.054)	$ 6.887	$0.23	7.11
Oct	2031	6.723	$ (0.080)	$ 6.643	$0.22	6.86
Nov	2031	6.818	$ (0.063)	$ 6.755	$0.22	6.98
Dec	2031	7.054	$ (0.053)	$ 7.001	$0.23	7.23
Jan	2032	7.049	$ (0.049)	$ 7.000	$0.23	7.23
Feb	2032	7.087	$ (0.059)	$ 7.028	$0.23	7.26
Mar	2032	7.059	$ (0.066)	$ 6.993	$0.23	7.22
Apr	2032	6.843	$ (0.130)	$ 6.713	$0.22	6.93
May	2032	6.880	$ (0.100)	$ 6.780	$0.22	7.00
Jun	2032	6.924	$ (0.058)	$ 6.866	$0.23	7.09
Jul	2032	7.118	$ (0.038)	$ 7.080	$0.23	7.31
Aug	2032	7.178	$ (0.029)	$ 7.150	$0.24	7.39
Sep	2032	7.075	$ (0.053)	$ 7.022	$0.23	7.25
Oct	2032	7.029	$ (0.081)	$ 6.948	$0.23	7.18
Nov	2032	7.193	$ (0.106)	$ 7.087	$0.23	7.32
Dec	2032	7.210	$ (0.077)	$ 7.133	$0.24	7.37
Jan	2033	6.845	$ (0.063)	$ 6.782	$0.22	7.01
Feb	2033	6.882	$ (0.073)	$ 6.819	$0.23	7.04
Mar	2033	6.625	$ (0.104)	$ 6.721	$0.22	6.94
Apr	2033	6.875	$ (0.144)	$ 6.679	$0.22	6.90
May	2033	6.867	$ (0.136)	$ 6.731	$0.22	6.95
Jun	2033	6.915	$ (0.080)	$ 6.835	$0.23	7.06
Jul	2033	7.127	$ (0.043)	$ 7.084	$0.23	7.32
Aug	2033	7.189	$ (0.023)	$ 7.166	$0.24	7.40
Sep	2033	7.095	$ (0.076)	$ 7.019	$0.23	7.25
Oct	2033	7.079	$ (0.124)	$ 6.955	$0.23	7.13
Nov	2033	7.236	$ (0.109)	$ 7.126	$0.24	7.36
Dec	2033	7.489	$ (0.081)	$ 7.409	$0.24	7.65
Jan	2034	7.689	$ (0.063)	$ 7.626	$0.25	7.88
Feb	2034	7.467	$ (0.073)	$ 7.393	$0.24	7.64
Mar	2034	7.251	$ (0.110)	$ 7.141	$0.24	7.38
Apr	2034	7.165	$ (0.134)	$ 7.031	$0.23	7.26
May	2034	7.211	$ (0.133)	$ 7.078	$0.23	7.31
Jun	2034	7.259	$ (0.080)	$ 7.179	$0.24	7.42
Jul	2034	7.607	$ (0.044)	$ 7.563	$0.25	7.81
Aug	2034	7.666	$ (0.024)	$ 7.641	$0.25	7.89
Sep	2034	7.520	$ (0.078)	$ 7.442	$0.25	7.69
Oct	2034	7.335	$ (0.131)	$ 7.204	$0.24	7.44
Nov	2034	7.652	$ (0.108)	$ 7.544	$0.25	7.79
Dec	2034	7.321	$ (0.073)	$ 7.248	$0.26	8.11
Jan	2035	8.040	$ (0.063)	$ 7.978	$0.26	8.24
Feb	2035	8.081	$ (0.073)	$ 8.008	$0.26	8.27
Mar	2035	7.835	$ (0.110)	$ 7.726	$0.25	7.98
Apr	2035	7.481	$ (0.140)	$ 7.341	$0.24	7.58
May	2035	7.674	$ (0.134)	$ 7.394	$0.24	7.64
Jun	2035	7.576	$ (0.080)	$ 7.496	$0.25	7.74
Jul	2035	7.968	$ (0.039)	$ 7.928	$0.26	8.19
Aug	2035	8.018	$ (0.027)	$ 7.991	$0.26	8.25
Sep	2035	7.884	$ (0.078)	$ 7.806	$0.26	8.06
Oct	2035	7.682	$ (0.132)	$ 7.550	$0.25	7.80
Nov	2035	7.748	$ (0.110)	$ 7.638	$0.25	7.89
Dec	2035	7.963	$ (0.070)	$ 7.893	$0.26	8.15
Jan	2036	8.009	$ (0.063)	$ 7.946	$0.26	8.21
Feb	2036	8.043	$ (0.080)	$ 7.963	$0.26	8.23
Mar	2036	7.909	$ (0.110)	$ 7.799	$0.26	8.06
Apr	2036	7.599	$ (0.143)	$ 7.456	$0.25	7.70
May	2036	7.646	$ (0.133)	$ 7.514	$0.25	7.76
Jun	2036	7.702	$ (0.083)	$ 7.620	$0.25	7.87
Jul	2036	7.930	$ (0.040)	$ 7.890	$0.26	8.15
Aug	2036	7.987	$ (0.030)	$ 7.957	$0.26	8.22
Sep	2036	7.948	$ (0.074)	$ 7.874	$0.26	8.13
Oct	2036	7.896	$ (0.124)	$ 7.772	$0.26	8.03
Nov	2036	8.002	$ (0.109)	$ 7.893	$0.26	8.15
Dec	2036	8.368	$ (0.070)	$ 8.297	$0.27	8.57
Jan	2037	8.526	$ (0.059)	$ 8.467	$0.28	8.75
Feb	2037	8.579	$ (0.068)	$ 8.511	$0.28	8.79
Mar	2037	8.453	$ (0.114)	$ 8.339	$0.27	8.61
Apr	2037	8.209	$ (0.142)	$ 8.066	$0.27	8.33
May	2037	8.259	$ (0.138)	$ 8.122	$0.27	8.39
Jun	2037	8.347	$ (0.078)	$ 8.263	$0.27	8.54
Jul	2037	8.699	$ (0.038)	$ 8.661	$0.29	8.95
Aug	2037	8.757	$ (0.030)	$ 8.727	$0.29	9.01
Sep	2037	8.576	$ (0.073)	$ 8.503	$0.28	8.84
Oct	2037	8.542	$ (0.136)	$ 8.406	$0.28	8.68
Nov	2037	8.650	$ (0.121)	$ 8.529	$0.28	8.81
Dec	2037	9.011	$ (0.071)	$ 8.940	$0.29	9.23
Jan	2038	9.175	$ (0.063)	$ 9.112	$0.30	9.41
Feb	2038	9.231	$ (0.075)	$ 9.155	$0.30	9.46
Mar	2038	9.090	$ (0.122)	$ 8.967	$0.30	9.26
Apr	2038	8.779	$ (0.142)	$ 8.637	$0.28	8.92
May	2038	8.833	$ (0.141)	$ 8.692	$0.29	8.98
Jun	2038	8.897	$ (0.083)	$ 8.814	$0.29	9.10
Jul	2038	9.149	$ (0.042)	$ 9.107	$0.30	9.41
Aug	2038	9.214	$ (0.037)	$ 9.177	$0.30	9.48
Sep	2038	9.007	$ (0.075)	$ 8.932	$0.29	9.23
Oct	2038	8.916	$ (0.139)	$ 8.777	$0.29	9.07
Nov	2038	9.064	$ (0.119)	$ 8.945	$0.29	9.24
Dec	2038	9.388	$ (0.072)	$ 9.316	$0.31	9.62
Jan	2039	9.405	$ (0.063)	$ 9.342	$0.31	9.65
Feb	2039	9.463	$ (0.073)	$ 9.390	$0.31	9.70
Mar	2039	9.237	$ (0.122)	$ 9.115	$0.30	9.41
Apr	2039	8.644	$ (0.152)	$ 8.492	$0.28	8.77
May	2039	8.694	$ (0.149)	$ 8.544	$0.28	8.83
Jun	2039	8.750	$ (0.092)	$ 8.658	$0.28	8.94
Jul	2039	8.938	$ (0.057)	$ 8.781	$0.29	9.07
Aug	2039	9.603	$ (0.045)	$ 9.558	$0.31	9.87
Sep	2039	9.561	$ (0.080)	$ 9.481	$0.31	9.79
Oct	2039	9.094	$ (0.141)	$ 9.065	$0.30	9.38
Nov	2039	9.310	$ (0.121)	$ 9.189	$0.30	9.49
Dec	2039	9.596	$ (0.085)	$ 9.511	$0.31	9.82
Jan	2040	9.875	$ (0.067)	$ 9.755	$0.32	10.08
Feb	2040	9.874	$ (0.108)	$ 9.766	$0.32	10.09
Mar	2040	9.714	$ (0.124)	$ 9.590	$0.32	9.91
Apr	2040	9.392	$ (0.152)	$ 9.240	$0.30	9.54
May	2040	9.446	$ (0.152)	$ 9.294	$0.31	9.60
Jun	2040	9.526	$ (0.098)	$ 9.428	$0.31	9.74
Jul	2040	9.875	$ (0.055)	$ 9.821	$0.32	10.14
Aug	2040	9.935	$ (0.039)	$ 9.897	$0.33	10.22
Sep	2040	9.916	$ (0.083)	$ 9.832	$0.32	10.16
Oct	2040	9.694	$ (0.152)	$ 9.542	$0.31	9.86
Nov	2040	9.797	$ (0.131)	$ 9.666	$0.32	9.98
Dec	2040	10.132	$ (0.072)	$ 10.059	$0.33	10.39
Jan	2041	10.303	$ (0.063)	$ 10.240	$0.34	10.58
Feb	2041	10.342	$ (0.092)	$ 10.250	$0.34	10.59
Mar	2041	10.122	$ (0.125)	$ 9.997	$0.33	10.33
Apr	2041	9.753	$ (0.153)	$ 9.599	$0.32	9.91
May	2041	9.815	$ (0.154)	$ 9.659	$0.32	9.98
Jun	2041	9.918	$ (0.090)	$ 9.827	$0.32	10.15
Jul	2041	10.353	$ (0.040)	$ 10.313	$0.34	10.65
Aug	2041	10.414	$ (0.027)	$ 10.388	$0.34	10.73
Sep	2041	10.418	$ (0.081)	$ 10.337	$0.34	10.68
Oct	2041	10.075	$ (0.155)	$ 9.920	$0.33	10.25
Nov	2041	10.361	$ (0.129)	$ 10.132	$0.33	10.46
Dec	2041	10.551	$ (0.063)	$ 10.488	$0.34	10.83
Jan	2042	10.687	$ (0.053)	$ 10.634	$0.35	10.98
Feb	2042	10.731	$ (0.087)	$ 10.644	$0.35	10.99
Mar	2042	10.504	$ (0.138)	$ 10.366	$0.34	10.71
Apr	2042	10.210	$ (0.162)	$ 10.048	$0.33	10.38
May	2042	10.273	$ (0.156)	$ 10.116	$0.33	10.45
Jun	2042	10.373	$ (0.083)	$ 10.290	$0.34	10.63
Jul	2042	10.902	$ (0.046)	$ 10.857	$0.36	11.21
Aug	2042	10.971	$ (0.011)	$ 10.960	$0.36	11.32
Sep	2042	10.935	$ (0.072)	$ 10.862	$0.36	11.22
Oct	2042	10.560	$ (0.154)	$ 10.406	$0.34	10.75
Nov	2042	10.618	$ (0.139)	$ 10.479	$0.34	10.82
Dec	2042	10.954	$ (0.131)	$ 10.822	$0.36	11.18
Jan	2043	11.155	$ (0.104)	$ 11.052	$0.36	11.41
Feb	2043	11.191	$ (0.152)	$ 11.039	$0.36	11.40
Mar	2043	10.972	$ (0.140)	$ 10.832	$0.36	11.19
Apr	2043	10.591	$ (0.194)	$ 10.398	$0.34	10.74
May	2043	10.656	$ (0.186)	$ 10.470	$0.34	10.81
Jun	2043	10.757	$ (0.159)	$ 10.578	$0.35	10.93
Jul	2043	11.261	$ (0.076)	$ 11.185	$0.37	11.55
Aug	2043	11.329	$ (0.060)	$ 11.268	$0.37	11.64
Sep	2043	11.196	$ (0.169)	$ 11.196	$0.37	11.56
Oct	2043	10.942	$ (0.166)	$ 10.776	$0.35	11.13
Nov	2043	11.036	$ (0.160)	$ 10.876	$0.36	11.23
Dec	2043	11.364	$ (0.143)	$ 11.251	$0.37	11.62
Jan	2044	11.212	$ (0.120)	$ 11.092	$0.36	11.46
Feb	2044	11.261	$ (0.155)	$ 11.105	$0.36	11.47
Mar	2044	11.074	$ (0.185)	$ 10.890	$0.36	11.22
Apr	2044	10.824	$ (0.215)	$ 10.609	$0.35	10.96
May	2044	10.887	$ (0.215)	$ 10.671	$0.35	11.02
Jun	2044	10.953	$ (0.169)	$ 10.783	$0.35	11.14
Jul	2044	11.455	$ (0.082)	$ 11.373	$0.37	11.75
Aug	2044	11.525	$ (0.060)	$ 11.465	$0.38	11.84
Sep	2044	11.504	$ (0.194)	$ 11.311	$0.37	11.68
Oct	2044	11.213	$ (0.218)	$ 10.995	$0.36	11.36
Nov	2044	11.387	$ (0.183)	$ 11.204	$0.37	11.57
Dec	2044	11.740	$ (0.152)	$ 11.588	$0.38	11.97
Jan	2045	11.803	$ (0.119)	$ 11.684	$0.38	12.07
Feb	2045	11.873	$ (0.173)	$ 11.700	$0.38	12.08
Mar	2045	11.683	$ (0.164)	$ 11.518	$0.38	11.90
Apr	2045	11.414	$ (0.226)	$ 11.189	$0.37	11.56
May	2045	11.474	$ (0.221)	$ 11.252	$0.37	11.62
Jun	2045	11.545	$ (0.174)	$ 11.371	$0.37	11.74
Jul	2045	12.078	$ (0.090)	$ 11.988	$0.39	12.38
Aug	2045	12.154	$ (0.064)	$ 12.090	$0.40	12.49
Sep	2045	12.175	$ (0.197)	$ 11.978	$0.39	12.37
Oct	2045	11.811	$ (0.221)	$ 11.592	$0.38	11.97
Nov	2045	12.005	$ (0.190)	$ 11.814	$0.39	12.20
Dec	2045	12.362	$ (0.160)	$ 12.202	$0.40	12.60
Jan	2046	12.498	$ (0.110)	$ 12.498	$0.41	12.91
Feb	2046	12.647	$ (0.174)	$ 12.473	$0.41	12.88
Mar	2046	12.352	$ (0.191)	$ 12.161	$0.40	12.56
Apr	2046	11.997	$ (0.238)	$ 11.768	$0.39	12.15
May	2046	12.059	$ (0.227)	$ 11.833	$0.39	12.22
Jun	2046	12.132	$ (0.177)	$ 11.954	$0.39	12.35
Jul	2046	12.749	$ (0.096)	$ 12.653	$0.41	13.07
Aug	2046	12.831	$ (0.058)	$ 12.773	$0.42	13.19
Sep	2046	12.789	$ (0.199)	$ 12.590	$0.41	13.00
Oct	2046	12.385	$ (0.222)	$ 12.162	$0.40	12.56
Nov	2046	12.499	$ (0.193)	$ 12.305	$0.40	12.71
Dec	2046	12.826	$ (0.151)	$ 12.675	$0.42	13.09
Jan	2047	13.168	$ (0.104)	$ 13.064	$0.43	13.49
Feb	2047	13.190	$ (0.193)	$ 12.997	$0.43	13.42
Mar	2047	12.721	$ (0.210)	$ 12.512	$0.41	12.92
Apr	2047	12.424	$ (0.255)	$ 12.170	$0.40	12.57
May	2047	12.475	$ (0.242)	$ 12.232	$0.40	12.63
Jun	2047	12.548	$ (0.153)	$ 12.395	$0.41	12.80
Jul	2047	13.163	$ (0.091)	$ 13.071	$0.43	13.50
Aug	2047	13.124	$ (0.054)	$ 13.191	$0.43	13.62
Sep	2047	13.239	$ (0.165)	$ 13.074	$0.43	13.50
Oct	2047	13.003	$ (0.234)	$ 12.768	$0.42	13.19
Nov	2047	13.118	$ (0.232)	$ 12.886	$0.42	13.31
Dec	2047	13.170	$ (0.180)	$ 12.990	$0.43	13.42
Jan	2048	13.311	$ (0.123)	$ 13.188	$0.43	13.62
Feb	2048	13.174	$ (0.214)	$ 13.161	$0.43	13.59
Mar	2048	13.073	$ (0.225)	$ 12.848	$0.42	13.27
Apr	2048	12.884	$ (0.258)	$ 12.626	$0.41	13.04
May	2048	12.967	$ (0.252)	$ 12.704	$0.42	13.12
Jun	2048	13.091	$ (0.186)	$ 12.905	$0.42

Assumptions

Commodity (see NYMEX & Fundy tab)

1) 2019 - 2024 based on NYMEX gas from 9/6/19 settlement prices.
2) 2024 - 2028 transition from NYMEX to Fundamentals
3) 2029 - 2050 based on Natural Gas Basis Differential and Prices from the Fundamentals Department 9/17/19

Assumptions:

PEF Transportation Fixed Costs

Cypress Expansion Project (Southern Natural Gas ("SNG") and Florida Gas Transmission ("FGT" Phase VII Expansion)

1) Primary source of Natural Gas Supply is the SNG LNG Elba Island LNG Terminal located near Savannah, GA

SNG Cypress Expansion

1) Primary Receipt Pt: Elba Island, GA Primary Delivery Pt: FGT on the Jacksonville, FL Lateral (Delivers into PEF's FGT Phase VII FTS-2 Capacity)
2) Secondary / Alternate Receipt Pts: Any point on SNG system Secondary / Alternate Delivery Pts: Any point on SNG system
3) Expected in service no sooner than May 1, 2007
4) Eff: May 1, 2007, FT Capacity = 60,453 Dts/day May - Sep
5) Eff: October 1, 2007, FT Capacity = 25,189 Dts/day (Oct - Apr)
6) Eff: May 1, 2008, FT Capacity = 80,605 Dts/day (May-Sep)
7) Eff: October 1, 2008, FT Capacity = 40,302 Dts/day (Oct - Apr)
8) Eff: May 1, 2009, FT Capacity = 100,756 Dts/day (May-Sep)
9) Eff: October 1, 2009, FT Capacity = 50,378 Dts/day (Oct - Apr)
10) Fixed Daily Demand Rate = $.3547/dt Year Round (Negotiated Rate)

FGT Phase VII Expansion

1) Primary Receipt Pt: SNG Cypress on Jacksonville, FL Primary Delivery Pts: FGT @ PEF Hines Complex, FGT @ Mirant Shady Hills and FGT @ PEF Anclote
2) Secondary / Alternate Receipt rights to any point on FGT Secondary / Alternate Delivery rights to any PEF Delivery Point on FGT
3) Expected in service no sooner than May 1, 2007
4) Eff: May 1, 2007, FT Capacity = 60,00 Dts/day (May - Sep)
5) Eff: October 1, 2007, FT Capacity = 25,000 Dts/day (Oct - Apr)
6) Eff: May 1, 2008, FT Capacity = 80,000 Dts/day (May - Sep)
7) Eff: October 1, 2008, FT Capacity = 40,000 Dts/day (Oct - Apr)
8) Eff: May 1, 2009, FT Capacity = 100,000 Dts/day (May-Sep)
9) Eff: October 1, 2009, FT Capacity = 50,000 Dts/day (Oct - Apr)
10) Fixed Daily Demand Rate = $.100/dt Discounted FTS-2 Rate (Oct - Apr)
11) Fixed Daily Demand Rate = $0.7185/dt (FTS-2 Rate with Rate Cap) (May - Sep)

Gulfstream FT-6 Transportation

FT-6 Transportation

1) Primary Receipt Pts: Mobile Bay Area Points Primary Delivery Pts: GNGS @ PEF Hines Complex, GNGS @ Intercession City and GNGS @ PEF Tiger Bay
2) All Fixed Cost Daily Demand Rates = $.55/dt (Negotiated Rates)
3) 1 FT-6 Contract No. 9000105R1 capacity sculpted = 72,000 Dts/day (Nov - Mar) and 90,000 Dts/day (Apr - Oct)
4) 2 FT-6 Contracts Year Round Capacity (not sculpted)
   a) Contract No. 9000665 = 30,000 Dts/day
   b) Contract No. 9000666 = 50,000 Dts/day
5) 1 FT-6 Contract No. 9162020 Osprey PPA / AMA 68,000 Dts/day From: 10/01/2014 To: 12/31/2016

Bartow GNGS Phase IV

1) 80,000 Dts/day (Sep-Dec 2008) and 155,000 Dts/day (2009 and forward)
2) All Fixed Cost Daily Demand Rates = $.59/dt
3) Contract No. 9035943

Hines GNGS Phase V

1) 35,000 Dts/day (Apr 2011 and beyond)
2) All Fixed Cost Daily Demand Rates = $.80/dt

Bartow GNGS

1) MDTQ = 5,000 Dts/Day thru 12/31/2012, and 7,000 Dts/Day Eff. 01/01/2013
2) Fixed Cost = $0.7041/dt (Negotiated Daily Demand Rate)
3) Contract No. 9120402 R3

Bartow GNGS (see K# 9120402 R3)

1) 2,000 Dts/Day (August 1, 2012 for 1-Yr w/ Yr to Yr Evergreen)
2) Fixed Cost = $0.7041/dt (Negotiated Daily Demand Rate)
3) Contract No. 9126223 Terminated on December 31, 2012 and combined with 9120402R3
4) See Contract No. 9120402R3 above effective January 1, 2013.

Citrus Contract on FGT (Administered by Dominion Energy)

1) Bundled Service via FGT
2) Primary Delivery Pt: FGT @ PEF Hines Complex
3) Daily Demand Rates = FGT FTS-2 Max Rate $0.7185
4) Bundled Delivery Service (includes supply)
5) Contract MDQ = 12,000 Dts/day (Nov - Apr)
6) Contract MDQ = 21,000 Dts/day (May - Oct)
7) Contract Expires November 1, 2013
8) Citrus FTS-1 & FTS-2 Contracts were permanently released to DEF effective: November 1, 2013 (see below under FGT Existing FTS-1 and FTS-2 Contracts)
9) See Notes under "FGT Existing FTS-1 and FTS-2 Contracts" (below - Notes 7 & 8)

FGT Existing FTS-1 and FTS-2 Contracts (excludes FGT Phase VII see above)

1) FTS-1 Capacity at a Daily Demand Rate Max FTS-1 Rate = $0.4694/Dt Effective 04/01/2010 (Rate Settlement in Docket No. RP10-21)
2) FTS-2 Capacity at a Daily Demand Rate Max FTS-2 Rate = $0.7185/Dt Effective 10/01/2010 (Rate Settlement in Docket No. RP10-21)
   a) Subject to Rate Cap (includes base usage rate in cap calculation) including reservation/demand rate surcharges at Daily Demand Rate = $.80/dt
3) Rates stated above (1&2) were settled in FGT Rate Case FERC Docket No. RP10-21, 09/03/2010 Eff. 10/01/2010 Pending FERC approval
4) FGT has a mandatory comeback requirement to file an NGA Section 4 Rate Case with FERC
   a) File with FERC no earlier than January 1, 2013
   b) File with FERC no later than November 1, 2014
5) FTS-1 Capacity at a Daily Demand Rate Max FTS-1 Rate = $0.4694/Dt (No Rate Cap)
   a) Contract No. 5815
6) FTS-2 Capacity at a Daily Demand Rate Max FTS-2 Rate = $0.7185/Dt (Subject to Rate Cap)
   a) Contract No. 5816
   b) Contract No. 5295 (Tiger Bay)
   c) Contract No. 5935 (FGT Phase IV)
      i) Primary Delivery Pts: PEF@ Hines, PEF @ Anclote, & PEF @ Intercession City (via Cane Island Lateral)
      ii) Secondary / Alternate Delivery Pts: All PEF Plants on FGT
7) Citrus / Dominion (VPEM) Permanent Capacity Release FGT FTS-1 Contact Nos. 114929, 114930, 114931 & 114934
   a) Effective: November 1, 2013

b) Primary Delivery Point: Hines Energy Complex
c) Annual Average Aggregate MDTQ = 6,932 Dts/day
d) Max FTS-1 Recourse Rate = $.4694/Dt
e) Combined w/ Note 8c below MDTQ = 12,000 Dts/day (Nov-Apr) and 21,000 Dts/day (May-Sep)
f) 10 Year Rollover Option

8) Citrus / Dominion (VPEM) Permanent Capacity Release FGT FTS-2 Contact Nos. 114932 & 114933
a) Effective: November 1, 2013
b) Primary Delivery Point: Hines Energy Complex
c) Annual Average Aggregate MDTQ = 9,568 Dts/day
d) Max FTS-2 Recourse Rate = $.7185/Dt (Subject to Settlement Rate Cap)
e) Combined w/ Note 7c above MDTQ = 12,000 Dts/day (Nov-Apr) and 21,000 Dts/day (May-Sep)
f) ROFR rights

SGR Storage & Bay Gas

1) SGR based on 500,000 Dts/Mo (Nov-May) and 700,000 Dts/Mo (Jun-Oct) capacity
2) Bay Gas based on 500,000 Dts/Mo
3) Monthly Demand Rates = $0.22/dt thru 04/30/2013, then $0.24/dt 05/01/2013 thru 4/30/2018
4) Bay Gas negotiations completed
5) SGR contract expires 5/31/2018 (No Rollover Provision)

SESH

1) Based on 100,000 Dts/Day thru May2009, then 150,000 Dts/Day thru May2010 and then 200,000 Dts/Day
2) Monthly Demand Rates = $.275/dt

FGT Phase VIII Expansion (FTS-3) Contract # 111144

1) Eff April 2011, FTS-3 FT Capacity = 75,000 Dts/day
2) Fixed Daily Demand Rate = $1.30/dt

FGT (FTS-3) Contract # 113000

1) Eff April 2013, FTS-3 FT Capacity = 30,000 Dts/day
2) Fixed Daily Demand Rate = $1.25/dt

Transco Mobile Bay South Expansions Contract Nos. 9097513 (Ph I), 9109950 (Ph II) and 9111070 (BP Ph II)

1) Phase I - Based on 153,500 Dts/Day from May 2010
2) Monthly Demand Rates = $0.09958/dt (Eff: 03/01/2013) Settlement Rates Certified by FERC Presiding ALJ on 09/30/2013 & Subject to Final FERC Approval
3) Phase II - additional 50,000 Dts/Day effective May 1, 2011, at the same rate
4) Capacity Release From BP - additional 53,500 DTs/day eff. 6/1/16, at the same rate

Cost Allocation

1) Consumption percentage based on October 2013 FOF & Fall 2012 GFF

PGS Lateral for Vandolah

1) Vandolah only of $41,750/month beginning June 2012, expires May 31, 2027

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	Average MMBTU Variable Cost	Average Variable MMBTU Delivered Costs	Average MMBTU Fixed Costs	Average MMBtu Delivered Variable & Fixed Costs
Jan	2019	3.110	$ (0.046)	$ 3.064	$0.10	3.17	1.70	4.86
Feb	2019	2.690	$ (0.019)	$ 2.671	$0.09	2.76	1.70	4.46
Mar	2019	2.950	$ (0.003)	$ 2.947	$0.10	3.05	1.70	4.74
Apr	2019	2.650	$ (0.001)	$ 2.649	$0.09	2.74	1.70	4.44
May	2019	2.640	$ 0.005	$ 2.645	$0.09	2.74	1.70	4.43
Jun	2019	2.400	$ 0.037	$ 2.437	$0.09	2.52	1.70	4.22
Jul	2019	2.370	$ 0.048	$ 2.418	$0.09	2.50	1.70	4.20
Aug	2019	2.220	$ 0.056	$ 2.276	$0.08	2.36	1.70	4.06
Sep	2019	2.560	$ 0.016	$ 2.576	$0.09	2.67	1.43	4.10
Oct	2019	2.743	$ 0.010	$ 2.753	$0.09	2.85	1.43	4.28
Nov	2019	2.303	$ 0.012	$ 2.315	$0.08	2.40	1.43	3.83
Dec	2019	2.495	$ 0.023	$ 2.518	$0.09	2.61	1.43	4.04
Jan	2020	2.612	$ 0.035	$ 2.647	$0.07	2.71	1.44	4.15
Feb	2020	2.575	$ 0.024	$ 2.599	$0.07	2.67	1.44	4.10
Mar	2020	2.462	$ (0.020)	$ 2.442	$0.06	2.50	1.44	3.94
Apr	2020	2.247	$ (0.019)	$ 2.228	$0.06	2.29	1.44	3.72
May	2020	2.234	$ 0.005	$ 2.239	$0.06	2.30	1.44	3.73
Jun	2020	2.278	$ 0.026	$ 2.304	$0.06	2.36	1.44	3.80
Jul	2020	2.326	$ 0.048	$ 2.374	$0.06	2.43	1.44	3.87
Aug	2020	2.335	$ 0.055	$ 2.390	$0.06	2.45	1.44	3.89
Sep	2020	2.318	$ 0.012	$ 2.330	$0.06	2.39	1.44	3.83
Oct	2020	2.344	$ 0.016	$ 2.360	$0.06	2.42	1.44	3.86
Nov	2020	2.409	$ 0.025	$ 2.434	$0.06	2.50	1.44	3.93
Dec	2020	2.578	$ 0.034	$ 2.612	$0.07	2.68	1.44	4.12
Jan	2021	2.700	$ 0.038	$ 2.738	$0.07	2.81	1.41	4.22
Feb	2021	2.661	$ 0.033	$ 2.694	$0.07	2.76	1.41	4.17
Mar	2021	2.548	$ (0.015)	$ 2.533	$0.06	2.60	1.41	4.01
Apr	2021	2.284	$ (0.021)	$ 2.263	$0.06	2.32	1.41	3.73
May	2021	2.260	$ 0.005	$ 2.265	$0.06	2.32	1.41	3.73
Jun	2021	2.294	$ 0.025	$ 2.319	$0.06	2.38	1.41	3.79
Jul	2021	2.332	$ 0.047	$ 2.379	$0.06	2.44	1.41	3.85
Aug	2021	2.339	$ 0.058	$ 2.397	$0.06	2.46	1.41	3.87
Sep	2021	2.328	$ 0.011	$ 2.339	$0.06	2.40	1.41	3.81
Oct	2021	2.354	$ 0.018	$ 2.372	$0.06	2.43	1.41	3.84
Nov	2021	2.424	$ 0.027	$ 2.451	$0.06	2.51	1.41	3.92
Dec	2021	2.603	$ 0.038	$ 2.641	$0.07	2.71	1.41	4.12
Jan	2022	2.729	$ 0.041	$ 2.770	$0.07	2.84	1.40	4.24
Feb	2022	2.702	$ 0.036	$ 2.738	$0.07	2.81	1.40	4.21
Mar	2022	2.595	$ (0.013)	$ 2.582	$0.07	2.65	1.40	4.05
Apr	2022	2.340	$ (0.016)	$ 2.324	$0.06	2.38	1.40	3.78
May	2022	2.324	$ 0.007	$ 2.331	$0.06	2.39	1.40	3.79
Jun	2022	2.359	$ 0.034	$ 2.393	$0.06	2.45	1.40	3.85
Jul	2022	2.399	$ 0.059	$ 2.458	$0.06	2.52	1.40	3.92
Aug	2022	2.411	$ 0.066	$ 2.477	$0.06	2.54	1.40	3.94
Sep	2022	2.404	$ 0.021	$ 2.425	$0.06	2.49	1.40	3.89
Oct	2022	2.430	$ 0.024	$ 2.454	$0.06	2.52	1.40	3.92
Nov	2022	2.492	$ 0.034	$ 2.526	$0.06	2.59	1.40	3.99
Dec	2022	2.674	$ 0.044	$ 2.718	$0.07	2.79	1.40	4.19
Jan	2023	2.799	$ 0.052	$ 2.851	$0.07	2.92	1.41	4.34
Feb	2023	2.767	$ 0.047	$ 2.814	$0.07	2.89	1.46	4.35
Mar	2023	2.656	$ (0.003)	$ 2.653	$0.07	2.72	1.46	4.18
Apr	2023	2.401	$ (0.008)	$ 2.393	$0.06	2.45	1.46	3.92
May	2023	2.385	$ 0.016	$ 2.401	$0.06	2.46	1.46	3.93
Jun	2023	2.426	$ 0.042	$ 2.468	$0.06	2.53	1.46	3.99
Jul	2023	2.466	$ 0.068	$ 2.534	$0.06	2.60	1.46	4.06
Aug	2023	2.481	$ 0.076	$ 2.557	$0.07	2.62	1.46	4.09
Sep	2023	2.476	$ 0.029	$ 2.505	$0.06	2.57	1.46	4.03
Oct	2023	2.505	$ 0.030	$ 2.535	$0.06	2.60	1.46	4.06
Nov	2023	2.580	$ 0.037	$ 2.617	$0.07	2.68	1.46	4.15
Dec	2023	2.760	$ 0.053	$ 2.813	$0.07	2.88	1.46	4.35
Jan	2024	2.889	$ 0.058	$ 2.947	$0.07	3.02	1.37	4.39
Feb	2024	2.866	$ 0.050	$ 2.915	$0.07	2.99	1.37	4.36
Mar	2024	2.760	$ (0.002)	$ 2.758	$0.07	2.83	1.37	4.19
Apr	2024	2.534	$ (0.007)	$ 2.527	$0.06	2.59	1.37	3.96
May	2024	2.531	$ 0.017	$ 2.548	$0.06	2.61	1.37	3.98
Jun	2024	2.573	$ 0.046	$ 2.619	$0.07	2.69	1.37	4.05
Jul	2024	2.623	$ 0.077	$ 2.700	$0.07	2.77	1.37	4.13
Aug	2024	2.644	$ 0.077	$ 2.722	$0.07	2.79	1.37	4.16
Sep	2024	2.646	$ 0.047	$ 2.693	$0.07	2.76	1.37	4.13
Oct	2024	2.672	$ 0.040	$ 2.713	$0.07	2.78	1.37	4.15
Nov	2024	2.758	$ 0.044	$ 2.802	$0.07	2.87	1.37	4.24
Dec	2024	2.940	$ 0.056	$ 2.996	$0.08	3.07	1.37	4.44
Jan	2025	3.054	$ 0.061	$ 3.115	$0.08	3.19	1.44	4.64
Feb	2025	3.048	$ 0.055	$ 3.103	$0.08	3.18	1.44	4.62
Mar	2025	2.970	$ (0.001)	$ 2.969	$0.08	3.04	1.44	4.49
Apr	2025	2.799	$ (0.011)	$ 2.789	$0.07	2.86	1.44	4.30
May	2025	2.811	$ 0.016	$ 2.826	$0.07	2.90	1.44	4.34
Jun	2025	2.854	$ 0.054	$ 2.908	$0.07	2.98	1.44	4.42
Jul	2025	2.948	$ 0.078	$ 3.027	$0.08	3.10	1.44	4.55
Aug	2025	2.980	$ 0.078	$ 3.058	$0.08	3.14	1.44	4.58
Sep	2025	2.883	$ 0.045	$ 2.928	$0.07	3.00	1.44	4.44
Oct	2025	2.903	$ 0.035	$ 2.938	$0.07	3.01	1.44	4.46
Nov	2025	2.990	$ 0.036	$ 3.026	$0.08	3.10	1.44	4.55
Dec	2025	3.163	$ 0.051	$ 3.214	$0.08	3.30	1.44	4.74
Jan	2026	3.255	$ 0.057	$ 3.311	$0.08	3.40	1.44	4.84
Feb	2026	3.255	$ 0.053	$ 3.308	$0.08	3.39	1.44	4.83
Mar	2026	3.176	$ (0.003)	$ 3.172	$0.08	3.25	1.44	4.69
Apr	2026	3.042	$ (0.001)	$ 3.041	$0.08	3.12	1.44	4.56
May	2026	3.061	$ 0.022	$ 3.083	$0.08	3.16	1.44	4.60
Jun	2026	3.116	$ 0.053	$ 3.169	$0.08	3.25	1.44	4.69
Jul	2026	3.276	$ 0.077	$ 3.353	$0.09	3.44	1.44	4.88
Aug	2026	3.318	$ 0.078	$ 3.396	$0.09	3.48	1.44	4.92
Sep	2026	3.252	$ 0.041	$ 3.293	$0.08	3.38	1.44	4.82
Oct	2026	3.247	$ 0.034	$ 3.280	$0.08	3.36	1.44	4.81
Nov	2026	3.322	$ 0.042	$ 3.364	$0.09	3.45	1.44	4.89
Dec	2026	3.506	$ 0.054	$ 3.559	$0.09	3.65	1.44	5.09
Jan	2027	3.583	$ 0.062	$ 3.645	$0.09	3.74	1.45	5.19
Feb	2027	3.604	$ 0.057	$ 3.661	$0.09	3.75	1.45	5.20
Mar	2027	3.551	$ (0.002)	$ 3.549	$0.09	3.64	1.45	5.09
Apr	2027	3.396	$ (0.002)	$ 3.394	$0.09	3.48	1.45	4.93
May	2027	3.424	$ 0.021	$ 3.445	$0.09	3.53	1.45	4.98
Jun	2027	3.498	$ 0.051	$ 3.549	$0.09	3.64	1.45	5.09
Jul	2027	3.731	$ 0.079	$ 3.809	$0.10	3.91	1.45	5.35

Avg			
Current Yr	2019	√	DJ 10/11
Fuel Retention	2.48%		
100%-B	97.52%		
AVG Variable	0.0240		
Esc%	2.50%	√	DJ 10/11

GSNG	
Fuel Retention	1.85%
Variable	0.0200

Sabal Trail	
Fuel Retention	3.15%
Usage Rate	0.0021
ACA	0.0013
Total Variable	0.0034

FGT			
Fuel Retention	2.44%		
100%-B	97.56%		
Total Variable	0.0486		
Esc%	2.50%	√	DJ 10/11
Variable			
Usage Rate	0.0109		
ACA	0.0013		
UFS	0.0364		
Total Variable	0.0486		

2020	2.4133
2021	2.4493
2022	2.5163
2023	2.5951
2024	2.7450
2025	2.9918
2026	3.2774
2027	3.6809
2028	4.1964
2029	4.5833
2030	4.7978
2031	5.0828
2032	5.3705
2033	5.3389
2034	5.5652
2035	5.7756
2036	5.8596
2037	6.2643
2038	6.5621
2039	6.6829
2040	6.9677
2041	7.2071
2042	7.4720
2043	7.6479
2044	7.9488
2045	8.3878
2046	8.7065
2047	8.8470
2048	9.1401
2049	9.3609
2050	9.4540

Aug	2027	3.778	$ 0.082	$ 3.860	$0.10	3.96	1.45	5.41
Sep	2027	3.768	$ 0.043	$ 3.812	$0.10	3.91	1.45	5.36
Oct	2027	3.651	$ 0.038	$ 3.690	$0.09	3.78	1.45	5.23
Nov	2027	3.730	$ 0.043	$ 3.773	$0.10	3.87	1.45	5.32
Dec	2027	3.930	$ 0.054	$ 3.984	$0.10	4.09	1.45	5.53
Jan	2028	3.993	$ 0.063	$ 4.056	$0.10	4.16	1.45	5.61
Feb	2028	4.025	$ 0.047	$ 4.072	$0.10	4.18	1.45	5.63
Mar	2028	3.948	$ (0.002)	$ 3.946	$0.10	4.05	1.45	5.50
Apr	2028	3.907	$ (0.006)	$ 3.900	$0.10	4.00	1.45	5.45
May	2028	3.947	$ 0.024	$ 3.971	$0.10	4.07	1.45	5.53
Jun	2028	4.139	$ 0.059	$ 4.198	$0.11	4.30	1.45	5.76
Jul	2028	4.159	$ 0.091	$ 4.250	$0.11	4.36	1.45	5.81
Aug	2028	4.214	$ 0.089	$ 4.304	$0.11	4.41	1.45	5.87
Sep	2028	4.278	$ 0.048	$ 4.325	$0.11	4.43	1.45	5.89
Oct	2028	4.263	$ 0.044	$ 4.307	$0.11	4.42	1.45	5.87
Nov	2028	4.329	$ 0.046	$ 4.375	$0.11	4.49	1.45	5.94
Dec	2028	4.599	$ 0.054	$ 4.653	$0.12	4.77	1.45	6.23
Jan	2029	4.640	$ 0.075	$ 4.716	$0.12	4.84	1.46	6.30
Feb	2029	4.669	$ 0.068	$ 4.737	$0.12	4.86	1.46	6.32
Mar	2029	4.455	$ 0.007	$ 4.462	$0.11	4.58	1.46	6.04
Apr	2029	4.470	$ 0.002	$ 4.472	$0.11	4.59	1.46	6.05
May	2029	4.534	$ 0.027	$ 4.561	$0.12	4.68	1.46	6.14
Jun	2029	4.657	$ 0.062	$ 4.719	$0.12	4.84	1.46	6.30
Jul	2029	4.385	$ 0.091	$ 4.476	$0.11	4.59	1.46	6.05
Aug	2029	4.417	$ 0.098	$ 4.516	$0.11	4.63	1.46	6.10
Sep	2029	4.535	$ 0.053	$ 4.588	$0.12	4.70	1.46	6.17
Oct	2029	4.525	$ 0.040	$ 4.565	$0.12	4.68	1.46	6.15
Nov	2029	4.430	$ 0.063	$ 4.492	$0.11	4.61	1.46	6.07
Dec	2029	4.634	$ 0.062	$ 4.696	$0.12	4.82	1.46	6.28
Jan	2030	4.665	$ 0.075	$ 4.740	$0.12	4.86	1.46	6.32
Feb	2030	4.694	$ 0.069	$ 4.763	$0.12	4.88	1.46	6.34
Mar	2030	4.583	$ 0.004	$ 4.587	$0.12	4.70	1.46	6.16
Apr	2030	4.550	$ (0.008)	$ 4.543	$0.12	4.66	1.46	6.12
May	2030	4.578	$ 0.029	$ 4.607	$0.12	4.72	1.46	6.18
Jun	2030	4.653	$ 0.069	$ 4.721	$0.12	4.84	1.46	6.30
Jul	2030	4.983	$ 0.104	$ 5.086	$0.13	5.22	1.46	6.67
Aug	2030	5.019	$ 0.113	$ 5.132	$0.13	5.26	1.46	6.72
Sep	2030	4.946	$ 0.056	$ 5.002	$0.13	5.13	1.46	6.59
Oct	2030	4.722	$ 0.053	$ 4.775	$0.12	4.90	1.46	6.35
Nov	2030	4.635	$ 0.056	$ 4.692	$0.12	4.81	1.46	6.27
Dec	2030	4.861	$ 0.064	$ 4.925	$0.13	5.05	1.46	6.51
Jan	2031	4.892	$ 0.098	$ 4.989	$0.13	5.12	1.49	6.60
Feb	2031	4.922	$ 0.092	$ 5.015	$0.13	5.14	1.49	6.63
Mar	2031	4.825	$ 0.019	$ 4.845	$0.12	4.97	1.49	6.45
Apr	2031	4.785	$ 0.000	$ 4.785	$0.12	4.91	1.49	6.39
May	2031	4.814	$ 0.055	$ 4.869	$0.12	4.99	1.49	6.48
Jun	2031	4.879	$ 0.082	$ 4.962	$0.13	5.09	1.49	6.57
Jul	2031	5.209	$ 0.116	$ 5.325	$0.14	5.46	1.49	6.95
Aug	2031	5.261	$ 0.139	$ 5.400	$0.14	5.54	1.49	7.02
Sep	2031	5.164	$ 0.086	$ 5.250	$0.13	5.38	1.49	6.87
Oct	2031	5.003	$ 0.082	$ 5.085	$0.13	5.21	1.49	6.70
Nov	2031	5.073	$ 0.066	$ 5.139	$0.13	5.27	1.49	6.75
Dec	2031	5.249	$ 0.082	$ 5.330	$0.14	5.47	1.49	6.95
Jan	2032	5.281	$ 0.106	$ 5.388	$0.14	5.53	1.49	7.01
Feb	2032	5.310	$ 0.077	$ 5.387	$0.14	5.52	1.49	7.01
Mar	2032	5.289	$ 0.050	$ 5.339	$0.14	5.47	1.49	6.96
Apr	2032	5.127	$ 0.026	$ 5.153	$0.13	5.28	1.49	6.77
May	2032	5.155	$ 0.069	$ 5.224	$0.13	5.36	1.49	6.84
Jun	2032	5.188	$ 0.095	$ 5.283	$0.13	5.42	1.49	6.90
Jul	2032	5.333	$ 0.136	$ 5.469	$0.14	5.61	1.49	7.09
Aug	2032	5.378	$ 0.159	$ 5.538	$0.14	5.68	1.49	7.16
Sep	2032	5.301	$ 0.091	$ 5.392	$0.14	5.53	1.49	7.01
Oct	2032	5.266	$ 0.088	$ 5.355	$0.14	5.49	1.49	6.98
Nov	2032	5.389	$ 0.053	$ 5.443	$0.14	5.58	1.49	7.07
Dec	2032	5.402	$ 0.072	$ 5.475	$0.14	5.61	1.49	7.10
Jan	2033	5.137	$ 0.093	$ 5.230	$0.13	5.36	1.48	6.84
Feb	2033	5.172	$ 0.091	$ 5.263	$0.13	5.40	1.48	6.88
Mar	2033	5.121	$ 0.022	$ 5.143	$0.13	5.27	1.48	6.75
Apr	2033	5.120	$ 0.016	$ 5.136	$0.13	5.27	1.48	6.75
May	2033	5.153	$ 0.032	$ 5.185	$0.13	5.32	1.48	6.80
Jun	2033	5.189	$ 0.080	$ 5.269	$0.13	5.40	1.48	6.88
Jul	2033	5.348	$ 0.119	$ 5.467	$0.14	5.61	1.48	7.09
Aug	2033	5.395	$ 0.127	$ 5.522	$0.14	5.66	1.48	7.14
Sep	2033	5.324	$ 0.068	$ 5.393	$0.14	5.53	1.48	7.01
Oct	2033	5.275	$ 0.053	$ 5.328	$0.14	5.46	1.48	6.94
Nov	2033	5.430	$ 0.033	$ 5.463	$0.14	5.60	1.48	7.08
Dec	2033	5.620	$ 0.047	$ 5.668	$0.14	5.81	1.48	7.29
Jan	2034	5.658	$ 0.080	$ 5.738	$0.15	5.88	1.45	7.34
Feb	2034	5.495	$ 0.056	$ 5.550	$0.14	5.69	1.45	7.14
Mar	2034	5.336	$ (0.008)	$ 5.328	$0.14	5.46	1.45	6.92
Apr	2034	5.273	$ 0.009	$ 5.282	$0.13	5.42	1.45	6.87
May	2034	5.307	$ 0.039	$ 5.346	$0.14	5.48	1.45	6.93
Jun	2034	5.342	$ 0.084	$ 5.426	$0.14	5.56	1.45	7.02
Jul	2034	5.598	$ 0.125	$ 5.723	$0.15	5.87	1.45	7.32
Aug	2034	5.641	$ 0.144	$ 5.785	$0.15	5.93	1.45	7.38
Sep	2034	5.534	$ 0.074	$ 5.608	$0.14	5.75	1.45	7.20
Oct	2034	5.398	$ 0.049	$ 5.447	$0.14	5.59	1.45	7.04
Nov	2034	5.631	$ 0.034	$ 5.665	$0.14	5.81	1.45	7.26
Dec	2034	5.829	$ 0.055	$ 5.884	$0.15	6.03	1.45	7.49
Jan	2035	5.870	$ 0.086	$ 5.956	$0.15	6.11	1.43	7.54
Feb	2035	5.900	$ 0.065	$ 5.965	$0.15	6.12	1.43	7.55
Mar	2035	5.720	$ 0.018	$ 5.739	$0.15	5.88	1.43	7.32
Apr	2035	5.462	$ 0.023	$ 5.485	$0.14	5.62	1.43	7.06
May	2035	5.496	$ 0.046	$ 5.542	$0.14	5.68	1.43	7.12
Jun	2035	5.531	$ 0.091	$ 5.623	$0.14	5.77	1.43	7.20
Jul	2035	5.817	$ 0.130	$ 5.947	$0.15	6.10	1.43	7.53
Aug	2035	5.854	$ 0.147	$ 6.001	$0.15	6.15	1.43	7.59
Sep	2035	5.756	$ 0.075	$ 5.831	$0.15	5.98	1.43	7.41
Oct	2035	5.608	$ 0.048	$ 5.656	$0.14	5.80	1.43	7.23
Nov	2035	5.657	$ 0.033	$ 5.690	$0.14	5.83	1.43	7.27
Dec	2035	5.813	$ 0.058	$ 5.872	$0.15	6.02	1.43	7.46
Jan	2036	5.851	$ 0.093	$ 5.944	$0.15	6.10	1.44	7.53
Feb	2036	5.876	$ 0.034	$ 5.911	$0.15	6.06	1.44	7.50
Mar	2036	5.778	$ 0.020	$ 5.798	$0.15	5.95	1.44	7.38
Apr	2036	5.552	$ 0.023	$ 5.575	$0.14	5.72	1.44	7.15
May	2036	5.586	$ 0.049	$ 5.636	$0.14	5.78	1.44	7.21
Jun	2036	5.627	$ 0.096	$ 5.723	$0.15	5.87	1.44	7.30
Jul	2036	5.794	$ 0.135	$ 5.929	$0.15	6.08	1.44	7.52
Aug	2036	5.835	$ 0.150	$ 5.985	$0.15	6.14	1.44	7.57

Sep	2036	5.807	$ 0.089	$ 5.896	$0.15	6.05	1.44	7.48
Oct	2036	5.768	$ 0.076	$ 5.844	$0.15	5.99	1.44	7.43
Nov	2036	5.846	$ 0.051	$ 5.897	$0.15	6.05	1.44	7.48
Dec	2036	6.113	$ 0.064	$ 6.177	$0.16	6.33	1.44	7.77
Jan	2037	6.160	$ 0.105	$ 6.266	$0.16	6.43	1.43	7.86
Feb	2037	6.199	$ 0.081	$ 6.281	$0.16	6.44	1.43	7.87
Mar	2037	6.107	$ 0.024	$ 6.132	$0.16	6.29	1.43	7.72
Apr	2037	5.931	$ 0.021	$ 5.952	$0.15	6.10	1.43	7.54
May	2037	5.968	$ 0.055	$ 6.023	$0.15	6.18	1.43	7.61
Jun	2037	6.027	$ 0.111	$ 6.138	$0.16	6.29	1.43	7.73
Jul	2037	6.286	$ 0.147	$ 6.433	$0.16	6.60	1.43	8.03
Aug	2037	6.327	$ 0.147	$ 6.474	$0.16	6.64	1.43	8.07
Sep	2037	6.240	$ 0.096	$ 6.336	$0.16	6.50	1.43	7.93
Oct	2037	6.172	$ 0.074	$ 6.246	$0.16	6.40	1.43	7.84
Nov	2037	6.250	$ 0.052	$ 6.302	$0.16	6.46	1.43	7.89
Dec	2037	6.511	$ 0.078	$ 6.589	$0.17	6.76	1.43	8.19
Jan	2038	6.552	$ 0.111	$ 6.663	$0.17	6.83	1.42	8.25
Feb	2038	6.592	$ 0.088	$ 6.681	$0.17	6.85	1.42	8.27
Mar	2038	6.491	$ 0.026	$ 6.517	$0.17	6.68	1.42	8.10
Apr	2038	6.270	$ 0.044	$ 6.314	$0.16	6.47	1.42	7.89
May	2038	6.308	$ 0.060	$ 6.369	$0.16	6.53	1.42	7.95
Jun	2038	6.354	$ 0.118	$ 6.472	$0.16	6.64	1.42	8.06
Jul	2038	6.534	$ 0.152	$ 6.686	$0.17	6.86	1.42	8.28
Aug	2038	6.580	$ 0.145	$ 6.725	$0.17	6.90	1.42	8.32
Sep	2038	6.432	$ 0.104	$ 6.536	$0.17	6.70	1.42	8.12
Oct	2038	6.367	$ 0.064	$ 6.431	$0.16	6.59	1.42	8.01
Nov	2038	6.473	$ 0.073	$ 6.546	$0.17	6.71	1.42	8.13
Dec	2038	6.705	$ 0.100	$ 6.805	$0.17	6.98	1.42	8.40
Jan	2039	6.748	$ 0.119	$ 6.866	$0.17	7.04		7.04
Feb	2039	6.789	$ 0.101	$ 6.891	$0.18	7.07		7.07
Mar	2039	6.627	$ 0.032	$ 6.660	$0.17	6.83		6.83
Apr	2039	6.202	$ 0.041	$ 6.243	$0.16	6.40		6.40
May	2039	6.237	$ 0.052	$ 6.290	$0.16	6.45		6.45
Jun	2039	6.278	$ 0.115	$ 6.392	$0.16	6.55		6.55
Jul	2039	6.341	$ 0.129	$ 6.470	$0.16	6.63		6.63
Aug	2039	6.890	$ 0.145	$ 7.035	$0.18	7.21		7.21
Sep	2039	6.860	$ 0.088	$ 6.948	$0.18	7.12		7.12
Oct	2039	6.605	$ 0.081	$ 6.686	$0.17	6.86		6.86
Nov	2039	6.680	$ 0.063	$ 6.743	$0.17	6.91		6.91
Dec	2039	6.885	$ 0.087	$ 6.971	$0.18	7.15		7.15
Jan	2040	6.925	$ 0.098	$ 7.023	$0.18	7.20		7.20
Feb	2040	6.962	$ 0.061	$ 7.022	$0.18	7.20		7.20
Mar	2040	6.849	$ 0.033	$ 6.882	$0.18	7.06		7.06
Apr	2040	6.622	$ 0.013	$ 6.635	$0.17	6.80		6.80
May	2040	6.660	$ 0.058	$ 6.718	$0.17	6.89		6.89
Jun	2040	6.717	$ 0.108	$ 6.824	$0.17	7.00		7.00
Jul	2040	6.962	$ 0.144	$ 7.107	$0.18	7.29		7.29
Aug	2040	7.005	$ 0.155	$ 7.160	$0.18	7.34		7.34
Sep	2040	6.991	$ 0.098	$ 7.089	$0.18	7.27		7.27
Oct	2040	6.835	$ 0.086	$ 6.921	$0.18	7.10		7.10
Nov	2040	6.907	$ 0.069	$ 6.976	$0.18	7.15		7.15
Dec	2040	7.143	$ 0.111	$ 7.255	$0.18	7.44		7.44
Jan	2041	7.186	$ 0.113	$ 7.298	$0.19	7.48		7.48
Feb	2041	7.213	$ 0.083	$ 7.296	$0.19	7.48		7.48
Mar	2041	7.060	$ 0.037	$ 7.097	$0.18	7.28		7.28
Apr	2041	6.802	$ 0.048	$ 6.850	$0.17	7.02		7.02
May	2041	6.844	$ 0.061	$ 6.905	$0.18	7.08		7.08
Jun	2041	6.917	$ 0.124	$ 7.041	$0.18	7.22		7.22
Jul	2041	7.221	$ 0.166	$ 7.387	$0.19	7.57		7.57
Aug	2041	7.264	$ 0.158	$ 7.421	$0.19	7.61		7.61
Sep	2041	7.266	$ 0.116	$ 7.382	$0.19	7.57		7.57
Oct	2041	7.027	$ 0.061	$ 7.088	$0.18	7.27		7.27
Nov	2041	7.157	$ 0.077	$ 7.234	$0.18	7.42		7.42
Dec	2041	7.359	$ 0.127	$ 7.486	$0.19	7.68		7.68
Jan	2042	7.402	$ 0.120	$ 7.523	$0.19	7.71		7.71
Feb	2042	7.433	$ 0.089	$ 7.522	$0.19	7.71		7.71
Mar	2042	7.276	$ 0.033	$ 7.309	$0.19	7.49		7.49
Apr	2042	7.072	$ 0.045	$ 7.117	$0.18	7.30		7.30
May	2042	7.115	$ 0.063	$ 7.179	$0.18	7.36		7.36
Jun	2042	7.185	$ 0.134	$ 7.319	$0.19	7.51		7.51
Jul	2042	7.551	$ 0.168	$ 7.719	$0.20	7.92		7.92
Aug	2042	7.599	$ 0.171	$ 7.770	$0.20	7.97		7.97
Sep	2042	7.574	$ 0.120	$ 7.694	$0.20	7.89		7.89
Oct	2042	7.314	$ 0.080	$ 7.394	$0.19	7.58		7.58
Nov	2042	7.355	$ 0.075	$ 7.429	$0.19	7.62		7.62
Dec	2042	7.587	$ 0.102	$ 7.689	$0.20	7.88		7.88
Jan	2043	7.632	$ 0.105	$ 7.737	$0.20	7.93		7.93
Feb	2043	7.656	$ 0.058	$ 7.715	$0.20	7.91		7.91
Mar	2043	7.507	$ 0.035	$ 7.542	$0.19	7.73		7.73
Apr	2043	7.246	$ 0.028	$ 7.275	$0.19	7.46		7.46
May	2043	7.291	$ 0.050	$ 7.341	$0.19	7.53		7.53
Jun	2043	7.346	$ 0.106	$ 7.452	$0.19	7.64		7.64
Jul	2043	7.705	$ 0.164	$ 7.869	$0.20	8.07		8.07
Aug	2043	7.751	$ 0.156	$ 7.907	$0.20	8.11		8.11
Sep	2043	7.776	$ 0.091	$ 7.866	$0.20	8.07		8.07
Oct	2043	7.486	$ 0.077	$ 7.562	$0.19	7.75		7.75
Nov	2043	7.551	$ 0.066	$ 7.617	$0.19	7.81		7.81
Dec	2043	7.795	$ 0.097	$ 7.892	$0.20	8.09		8.09
Jan	2044	7.843	$ 0.099	$ 7.942	$0.20	8.14		8.14
Feb	2044	7.877	$ 0.059	$ 7.936	$0.20	8.14		8.14
Mar	2044	7.712	$ 0.025	$ 7.737	$0.20	7.93		7.93
Apr	2044	7.571	$ 0.029	$ 7.600	$0.19	7.79		7.79
May	2044	7.615	$ 0.040	$ 7.655	$0.19	7.85		7.85
Jun	2044	7.661	$ 0.105	$ 7.766	$0.20	7.96		7.96
Jul	2044	8.012	$ 0.160	$ 8.173	$0.21	8.38		8.38
Aug	2044	8.062	$ 0.162	$ 8.224	$0.21	8.43		8.43
Sep	2044	8.047	$ 0.080	$ 8.127	$0.21	8.33		8.33
Oct	2044	7.844	$ 0.045	$ 7.889	$0.20	8.09		8.09
Nov	2044	7.965	$ 0.060	$ 8.025	$0.20	8.23		8.23
Dec	2044	8.212	$ 0.099	$ 8.311	$0.21	8.52		8.52
Jan	2045	8.261	$ 0.107	$ 8.368	$0.21	8.58		8.58
Feb	2045	8.310	$ 0.056	$ 8.366	$0.21	8.58		8.58
Mar	2045	8.177	$ 0.031	$ 8.208	$0.21	8.42		8.42
Apr	2045	7.989	$ 0.026	$ 8.015	$0.20	8.22		8.22
May	2045	8.031	$ 0.042	$ 8.072	$0.21	8.28		8.28
Jun	2045	8.080	$ 0.109	$ 8.189	$0.21	8.40		8.40
Jul	2045	8.453	$ 0.157	$ 8.610	$0.22	8.83		8.83
Aug	2045	8.506	$ 0.169	$ 8.676	$0.22	8.90		8.90
Sep	2045	8.521	$ 0.085	$ 8.606	$0.22	8.82		8.82

Oct	2045	8.268	$ 0.062	$ 8.331	$0.21	8.54	8.54
Nov	2045	8.402	$ 0.062	$ 8.464	$0.22	8.68	8.68
Dec	2045	8.652	$ 0.096	$ 8.748	$0.22	8.97	8.97
Jan	2046	8.703	$ 0.115	$ 8.818	$0.22	9.04	9.04
Feb	2046	8.730	$ 0.062	$ 8.792	$0.22	9.02	9.02
Mar	2046	8.526	$ 0.022	$ 8.549	$0.22	8.77	8.77
Apr	2046	8.288	$ 0.018	$ 8.306	$0.21	8.52	8.52
May	2046	8.324	$ 0.043	$ 8.368	$0.21	8.58	8.58
Jun	2046	8.374	$ 0.110	$ 8.484	$0.22	8.70	8.70
Jul	2046	8.801	$ 0.158	$ 8.959	$0.23	9.19	9.19
Aug	2046	8.857	$ 0.176	$ 9.033	$0.23	9.26	9.26
Sep	2046	8.828	$ 0.081	$ 8.909	$0.23	9.14	9.14
Oct	2046	8.549	$ 0.062	$ 8.611	$0.22	8.83	8.83
Nov	2046	8.628	$ 0.064	$ 8.692	$0.22	8.91	8.91
Dec	2046	8.854	$ 0.103	$ 8.957	$0.23	9.18	9.18
Jan	2047	8.906	$ 0.126	$ 9.032	$0.23	9.26	9.26
Feb	2047	8.921	$ 0.058	$ 8.979	$0.23	9.21	9.21
Mar	2047	8.604	$ 0.019	$ 8.622	$0.22	8.84	8.84
Apr	2047	8.403	$ 0.022	$ 8.425	$0.21	8.64	8.64
May	2047	8.437	$ 0.039	$ 8.476	$0.22	8.69	8.69
Jun	2047	8.486	$ 0.123	$ 8.610	$0.22	8.83	8.83
Jul	2047	8.902	$ 0.165	$ 9.067	$0.23	9.30	9.30
Aug	2047	8.958	$ 0.182	$ 9.140	$0.23	9.37	9.37
Sep	2047	8.954	$ 0.088	$ 9.042	$0.23	9.27	9.27
Oct	2047	8.794	$ 0.052	$ 8.846	$0.22	9.07	9.07
Nov	2047	8.872	$ 0.052	$ 8.924	$0.23	9.15	9.15
Dec	2047	8.907	$ 0.093	$ 9.001	$0.23	9.23	9.23
Jan	2048	8.959	$ 0.109	$ 9.068	$0.23	9.30	9.30
Feb	2048	9.002	$ 0.036	$ 9.038	$0.23	9.27	9.27
Mar	2048	8.799	$ 0.007	$ 8.806	$0.22	9.03	9.03
Apr	2048	8.672	$ 0.022	$ 8.694	$0.22	8.92	8.92
May	2048	8.721	$ 0.032	$ 8.753	$0.22	8.98	8.98
Jun	2048	8.811	$ 0.099	$ 8.910	$0.23	9.14	9.14
Jul	2048	9.345	$ 0.136	$ 9.480	$0.24	9.72	9.72
Aug	2048	9.410	$ 0.181	$ 9.591	$0.24	9.83	9.83
Sep	2048	9.428	$ 0.072	$ 9.500	$0.24	9.74	9.74
Oct	2048	9.043	$ 0.058	$ 9.101	$0.23	9.33	9.33
Nov	2048	9.185	$ 0.046	$ 9.231	$0.23	9.47	9.47
Dec	2048	9.448	$ 0.061	$ 9.509	$0.24	9.75	9.75
Jan	2049	9.502	$ 0.085	$ 9.587	$0.24	9.83	9.83
Feb	2049	9.512	$ 0.031	$ 9.544	$0.24	9.79	9.79
Mar	2049	9.452	$ 0.007	$ 9.458	$0.24	9.70	9.70
Apr	2049	9.346	$ 0.019	$ 9.365	$0.24	9.60	9.60
May	2049	8.991	$ 0.033	$ 9.023	$0.23	9.25	9.25
Jun	2049	9.041	$ 0.089	$ 9.130	$0.23	9.36	9.36
Jul	2049	9.257	$ 0.124	$ 9.381	$0.24	9.62	9.62
Aug	2049	9.309	$ 0.151	$ 9.460	$0.24	9.70	9.70
Sep	2049	9.142	$ 0.071	$ 9.214	$0.23	9.45	9.45
Oct	2049	8.977	$ 0.058	$ 9.035	$0.23	9.26	9.26
Nov	2049	9.324	$ 0.046	$ 9.370	$0.24	9.61	9.61
Dec	2049	9.702	$ 0.062	$ 9.764	$0.25	10.01	10.01
Jan	2050	9.755	$ 0.086	$ 9.841	$0.25	10.09	10.09
Feb	2050	9.783	$ 0.033	$ 9.816	$0.25	10.07	10.07
Mar	2050	9.486	$ 0.006	$ 9.492	$0.24	9.73	9.73
Apr	2050	9.015	$ 0.023	$ 9.038	$0.23	9.27	9.27
May	2050	9.058	$ 0.032	$ 9.090	$0.23	9.32	9.32
Jun	2050	9.108	$ 0.097	$ 9.204	$0.23	9.44	9.44
Jul	2050	9.393	$ 0.124	$ 9.517	$0.24	9.76	9.76
Aug	2050	9.450	$ 0.158	$ 9.608	$0.24	9.85	9.85
Sep	2050	9.423	$ 0.072	$ 9.496	$0.24	9.74	9.74
Oct	2050	9.119	$ 0.063	$ 9.182	$0.23	9.42	9.42
Nov	2050	9.368	$ 0.047	$ 9.416	$0.24	9.66	9.66
Dec	2050	9.683	$ 0.065	$ 9.748	$0.25	10.00	10.00

HENRY HUB DATA

year	Date	Henry Hub	NYMEX	Blend NYMEX/ Fundamental (%)	Blend NYMEX/ Fundamental ($)
2019	1/1/2019	$3.07	$3.11	100%	3.11
2019	2/1/2019	$2.65	$2.69	100%	2.69
2019	3/1/2019	$2.60	$2.95	100%	2.95
2019	4/1/2019	$2.50	$2.65	100%	2.65
2019	5/1/2019	$2.59	$2.64	100%	2.64
2019	6/1/2019	$2.57	$2.40	100%	2.40
2019	7/1/2019	$2.64	$2.37	100%	2.37
2019	8/1/2019	$2.66	$2.22	100%	2.22
2019	9/1/2019	$2.11	$2.56	100%	2.56
2019	10/1/2019	$2.04	$2.74	100%	2.74
2019	11/1/2019	$2.09	$2.30	100%	2.30
2019	12/1/2019	$2.15	$2.50	100%	2.50
2020	1/1/2020	$2.06	$2.61	100%	2.61
2020	2/1/2020	$2.06	$2.58	100%	2.58
2020	3/1/2020	$1.97	$2.46	100%	2.46
2020	4/1/2020	$1.81	$2.25	100%	2.25
2020	5/1/2020	$1.61	$2.23	100%	2.23
2020	6/1/2020	$1.57	$2.28	100%	2.28
2020	7/1/2020	$1.72	$2.33	100%	2.33
2020	8/1/2020	$1.91	$2.34	100%	2.34
2020	9/1/2020	$2.06	$2.32	100%	2.32
2020	10/1/2020	$2.09	$2.34	100%	2.34
2020	11/1/2020	$2.08	$2.41	100%	2.41
2020	12/1/2020	$2.14	$2.58	100%	2.58
2021	1/1/2021	$2.20	$2.70	100%	2.70
2021	2/1/2021	$2.24	$2.66	100%	2.66
2021	3/1/2021	$2.16	$2.55	100%	2.55
2021	4/1/2021	$2.11	$2.28	100%	2.28
2021	5/1/2021	$2.15	$2.26	100%	2.26
2021	6/1/2021	$2.18	$2.29	100%	2.29
2021	7/1/2021	$2.21	$2.33	100%	2.33
2021	8/1/2021	$2.24	$2.34	100%	2.34
2021	9/1/2021	$2.27	$2.33	100%	2.33
2021	10/1/2021	$2.27	$2.35	100%	2.35
2021	11/1/2021	$2.33	$2.42	100%	2.42
2021	12/1/2021	$2.44	$2.60	100%	2.60
2022	1/1/2022	$2.46	$2.73	100%	2.73
2022	2/1/2022	$2.47	$2.70	100%	2.70
2022	3/1/2022	$2.48	$2.60	100%	2.60
2022	4/1/2022	$2.50	$2.34	100%	2.34
2022	5/1/2022	$2.52	$2.32	100%	2.32
2022	6/1/2022	$2.54	$2.36	100%	2.36
2022	7/1/2022	$2.61	$2.40	100%	2.40
2022	8/1/2022	$2.63	$2.41	100%	2.41
2022	9/1/2022	$2.63	$2.40	100%	2.40
2022	10/1/2022	$2.62	$2.43	100%	2.43
2022	11/1/2022	$2.70	$2.49	100%	2.49
2022	12/1/2022	$2.79	$2.67	100%	2.67
2023	1/1/2023	$2.81	$2.80	100%	2.80
2023	2/1/2023	$2.83	$2.77	100%	2.77
2023	3/1/2023	$2.77	$2.66	100%	2.66
2023	4/1/2023	$2.73	$2.40	100%	2.40
2023	5/1/2023	$2.75	$2.39	100%	2.39
2023	6/1/2023	$2.78	$2.43	100%	2.43
2023	7/1/2023	$2.87	$2.47	100%	2.47
2023	8/1/2023	$2.89	$2.48	100%	2.48
2023	9/1/2023	$2.87	$2.48	100%	2.48
2023	10/1/2023	$2.85	$2.51	100%	2.51
2023	11/1/2023	$3.01	$2.58	100%	2.58
2023	12/1/2023	$3.07	$2.76	100%	2.76
2024	1/1/2024	$3.10	$2.89	98%	2.89
2024	2/1/2024	$3.12	$2.86	97%	2.87
2024	3/1/2024	$3.10	$2.74	95%	2.76
2024	4/1/2024	$3.08	$2.50	93%	2.53

Historical Henry Hub
NYMEX - Close 4/15/19
NYMEX - Close 10/16/19
Grow at inflation of same month previous year

2024	5/1/2024	$3.10	$2.48	92%	2.53
2024	6/1/2024	$3.16	$2.51	90%	2.57
2024	7/1/2024	$3.27	$2.54	88%	2.62
2024	8/1/2024	$3.30	$2.54	87%	2.64
2024	9/1/2024	$3.26	$2.54	85%	2.65
2024	10/1/2024	$3.24	$2.56	83%	2.67
2024	11/1/2024	$3.37	$2.62	82%	2.76
2024	12/1/2024	$3.50	$2.80	80%	2.94
2025	1/1/2025	$3.52	$2.93	78%	3.05
2025	2/1/2025	$3.54	$2.90	77%	3.05
2025	3/1/2025	$3.48	$2.80	75%	2.97
2025	4/1/2025	$3.42	$2.57	73%	2.80
2025	5/1/2025	$3.44	$2.56	72%	2.81
2025	6/1/2025	$3.47	$2.59	70%	2.85
2025	7/1/2025	$3.65	$2.62	68%	2.95
2025	8/1/2025	$3.68	$2.63	67%	2.98
2025	9/1/2025	$3.37	$2.62	65%	2.88
2025	10/1/2025	$3.35	$2.65	63%	2.90
2025	11/1/2025	$3.44	$2.71	62%	2.99
2025	12/1/2025	$3.60	$2.87	60%	3.16
2026	1/1/2026	$3.62	$2.99	58%	3.25
2026	2/1/2026	$3.64	$2.96	57%	3.25
2026	3/1/2026	$3.56	$2.86	55%	3.18
2026	4/1/2026	$3.50	$2.64	53%	3.04
2026	5/1/2026	$3.52	$2.63	52%	3.06
2026	6/1/2026	$3.57	$2.66	50%	3.12
2026	7/1/2026	$3.82	$2.70	48%	3.28
2026	8/1/2026	$3.85	$2.71	47%	3.32
2026	9/1/2026	$3.70	$2.71	45%	3.25
2026	10/1/2026	$3.64	$2.73	43%	3.25
2026	11/1/2026	$3.70	$2.79	42%	3.32
2026	12/1/2026	$3.87	$2.97	40%	3.51
2027	1/1/2027	$3.89	$3.09	38%	3.58
2027	2/1/2027	$3.91	$3.07	37%	3.60
2027	3/1/2027	$3.85	$2.99	35%	3.55
2027	4/1/2027	$3.71	$2.76	33%	3.40
2027	5/1/2027	$3.74	$2.75	32%	3.42
2027	6/1/2027	$3.81	$2.78	30%	3.50
2027	7/1/2027	$4.10	$2.81	28%	3.73
2027	8/1/2027	$4.12	$2.83	27%	3.78
2027	9/1/2027	$4.08	$2.83	25%	3.77
2027	10/1/2027	$3.89	$2.86	23%	3.65
2027	11/1/2027	$3.95	$2.92	22%	3.73
2027	12/1/2027	$4.14	$3.08	20%	3.93
2028	1/1/2028	$4.17	$3.20	18%	3.99
2028	2/1/2028	$4.20	$3.16	17%	4.02
2028	3/1/2028	$4.10	$3.10	15%	3.95
2028	4/1/2028	$4.07	$2.84	13%	3.91
2028	5/1/2028	$4.10	$2.82	12%	3.95
2028	6/1/2028	$4.28	$2.85	10%	4.14
2028	7/1/2028	$4.27	$2.89	8%	4.16
2028	8/1/2028	$4.31	$2.93	7%	4.21
2028	9/1/2028	$4.35	$2.94	5%	4.28
2028	10/1/2028	$4.31	$2.98	3%	4.26
2028	11/1/2028	$4.35	$3.05	2%	4.33
2028	12/1/2028	$4.60	$3.20	0%	4.60
2029	1/1/2029	$4.64	$3.33	0%	4.64
2029	2/1/2029	$4.67	$3.29	0%	4.67
2029	3/1/2029	$4.45	$3.23	0%	4.45
2029	4/1/2029	$4.47	$2.93	0%	4.47
2029	5/1/2029	$4.53	$2.91	0%	4.53
2029	6/1/2029	$4.66	$2.94	0%	4.66
2029	7/1/2029	$4.39	$2.98	0%	4.39
2029	8/1/2029	$4.42	$3.02	0%	4.42
2029	9/1/2029	$4.54	$3.04	0%	4.54
2029	10/1/2029	$4.52	$3.08	0%	4.52
2029	11/1/2029	$4.43	$3.16	0%	4.43
2029	12/1/2029	$4.63	$3.31	0%	4.63
2030	1/1/2030	$4.67	$3.44	0%	4.67

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2030	2/1/2030	$4.69	$3.41	0%	4.69
2030	3/1/2030	$4.58	$3.34	0%	4.58
2030	4/1/2030	$4.55	$3.04	0%	4.55
2030	5/1/2030	$4.58	$3.01	0%	4.58
2030	6/1/2030	$4.65	$3.05	0%	4.65
2030	7/1/2030	$4.98	$3.09	0%	4.98
2030	8/1/2030	$5.02	$3.13	0%	5.02
2030	9/1/2030	$4.95	$3.14	0%	4.95
2030	10/1/2030	$4.72	$3.19	0%	4.72
2030	11/1/2030	$4.64	$3.26	0%	4.64
2030	12/1/2030	$4.86	$3.42	0%	4.86
2031	1/1/2031	$4.89	$3.55	0%	4.89
2031	2/1/2031	$4.92	$3.51	0%	4.92
2031	3/1/2031	$4.83	$3.45	0%	4.83
2031	4/1/2031	$4.78	$3.15	0%	4.78
2031	5/1/2031	$4.81	$3.12	0%	4.81
2031	6/1/2031	$4.88	$3.16	0%	4.88
2031	7/1/2031	$5.21	$3.20	0%	5.21
2031	8/1/2031	$5.26	$3.24	0%	5.26
2031	9/1/2031	$5.16	$3.25	0%	5.16
2031	10/1/2031	$5.00	$3.30	0%	5.00
2031	11/1/2031	$5.07	$3.37	0%	5.07
2031	12/1/2031	$5.25	$3.53	0%	5.25
2032	1/1/2032	$5.28	$3.66	0%	5.28
2032	2/1/2032	$5.31	$3.62	0%	5.31
2032	3/1/2032	$5.29	$3.56	0%	5.29
2032	4/1/2032	$5.13	$3.25	0%	5.13
2032	5/1/2032	$5.16	$3.22	0%	5.16
2032	6/1/2032	$5.19	$3.26	0%	5.19
2032	7/1/2032	$5.33	$3.30	0%	5.33
2032	8/1/2032	$5.38	$3.34	0%	5.38
2032	9/1/2032	$5.30	$3.36	0%	5.30
2032	10/1/2032	$5.27	$3.40	0%	5.27
2032	11/1/2032	$5.39	$3.48	0%	5.39
2032	12/1/2032	$5.40	$3.64	0%	5.40
2033	1/1/2033	$5.14	$3.82	0%	5.14
2033	2/1/2033	$5.17	$3.78	0%	5.17
2033	3/1/2033	$5.12	$3.71	0%	5.12
2033	4/1/2033	$5.12	$3.39	0%	5.12
2033	5/1/2033	$5.15	$3.36	0%	5.15
2033	6/1/2033	$5.19	$3.40	0%	5.19
2033	7/1/2033	$5.35	$3.44	0%	5.35
2033	8/1/2033	$5.39	$3.49	0%	5.39
2033	9/1/2033	$5.32	$3.50	0%	5.32
2033	10/1/2033	$5.27	$3.55	0%	5.27
2033	11/1/2033	$5.43	$3.63	0%	5.43
2033	12/1/2033	$5.62	$3.80	0%	5.62
2034	1/1/2034	$5.66	$4.06	0%	5.66
2034	2/1/2034	$5.49	$4.02	0%	5.49
2034	3/1/2034	$5.34	$3.94	0%	5.34
2034	4/1/2034	$5.27	$3.60	0%	5.27
2034	5/1/2034	$5.31	$3.57	0%	5.31
2034	6/1/2034	$5.34	$3.61	0%	5.34
2034	7/1/2034	$5.60	$3.66	0%	5.60
2034	8/1/2034	$5.64	$3.71	0%	5.64
2034	9/1/2034	$5.53	$3.72	0%	5.53
2034	10/1/2034	$5.40	$3.78	0%	5.40
2034	11/1/2034	$5.63	$3.86	0%	5.63
2034	12/1/2034	$5.83	$4.03	0%	5.83
2035	1/1/2035	$5.87	$4.35	0%	5.87
2035	2/1/2035	$5.90	$4.31	0%	5.90
2035	3/1/2035	$5.72	$4.23	0%	5.72
2035	4/1/2035	$5.46	$3.86	0%	5.46
2035	5/1/2035	$5.50	$3.83	0%	5.50
2035	6/1/2035	$5.53	$3.87	0%	5.53
2035	7/1/2035	$5.82	$3.92	0%	5.82
2035	8/1/2035	$5.85	$3.97	0%	5.85
2035	9/1/2035	$5.76	$3.99	0%	5.76
2035	10/1/2035	$5.61	$4.05	0%	5.61

2035	11/1/2035	$5.66	$4.13	0%	5.66
2035	12/1/2035	$5.81	$4.33	0%	5.81
2036	1/1/2036	$5.85	$4.70	0%	5.85
2036	2/1/2036	$5.88	$4.66	0%	5.88
2036	3/1/2036	$5.78	$4.57	0%	5.78
2036	4/1/2036	$5.55	$4.17	0%	5.55
2036	5/1/2036	$5.59	$4.14	0%	5.59
2036	6/1/2036	$5.63	$4.19	0%	5.63
2036	7/1/2036	$5.79	$4.24	0%	5.79
2036	8/1/2036	$5.83	$4.29	0%	5.83
2036	9/1/2036	$5.81	$4.31	0%	5.81
2036	10/1/2036	$5.77	$4.37	0%	5.77
2036	11/1/2036	$5.85	$4.47	0%	5.85
2036	12/1/2036	$6.11	$4.67	0%	6.11
2037	1/1/2037	$6.16	$5.06	0%	6.16
2037	2/1/2037	$6.20	$5.01	0%	6.20
2037	3/1/2037	$6.11	$4.91	0%	6.11
2037	4/1/2037	$5.93	$4.48	0%	5.93
2037	5/1/2037	$5.97	$4.45	0%	5.97
2037	6/1/2037	$6.03	$4.50	0%	6.03
2037	7/1/2037	$6.29	$4.56	0%	6.29
2037	8/1/2037	$6.33	$4.61	0%	6.33
2037	9/1/2037	$6.24	$4.64	0%	6.24
2037	10/1/2037	$6.17	$4.70	0%	6.17
2037	11/1/2037	$6.25	$4.80	0%	6.25
2037	12/1/2037	$6.51	$5.03	0%	6.51
2038	1/1/2038	$6.55	$5.40	0%	6.55
2038	2/1/2038	$6.59	$5.34	0%	6.59
2038	3/1/2038	$6.49	$5.24	0%	6.49
2038	4/1/2038	$6.27	$4.78	0%	6.27
2038	5/1/2038	$6.31	$4.75	0%	6.31
2038	6/1/2038	$6.35	$4.80	0%	6.35
2038	7/1/2038	$6.53	$4.86	0%	6.53
2038	8/1/2038	$6.58	$4.93	0%	6.58
2038	9/1/2038	$6.43	$4.95	0%	6.43
2038	10/1/2038	$6.37	$5.02	0%	6.37
2038	11/1/2038	$6.47	$5.13	0%	6.47
2038	12/1/2038	$6.70	$5.36	0%	6.70
2039	1/1/2039	$6.75	$5.76	0%	6.75
2039	2/1/2039	$6.79	$5.70	0%	6.79
2039	3/1/2039	$6.63	$5.60	0%	6.63
2039	4/1/2039	$6.20	$5.11	0%	6.20
2039	5/1/2039	$6.24	$5.07	0%	6.24
2039	6/1/2039	$6.28	$5.13	0%	6.28
2039	7/1/2039	$6.34	$5.19	0%	6.34
2039	8/1/2039	$6.89	$5.26	0%	6.89
2039	9/1/2039	$6.86	$5.28	0%	6.86
2039	10/1/2039	$6.60	$5.36	0%	6.60
2039	11/1/2039	$6.68	$5.47	0%	6.68
2039	12/1/2039	$6.88	$5.72	0%	6.88
2040	1/1/2040	$6.93	$6.14	0%	6.93
2040	2/1/2040	$6.96	$6.08	0%	6.96
2040	3/1/2040	$6.85	$5.97	0%	6.85
2040	4/1/2040	$6.62	$5.45	0%	6.62
2040	5/1/2040	$6.66	$5.41	0%	6.66
2040	6/1/2040	$6.72	$5.47	0%	6.72
2040	7/1/2040	$6.96	$5.54	0%	6.96
2040	8/1/2040	$7.01	$5.61	0%	7.01
2040	9/1/2040	$6.99	$5.64	0%	6.99
2040	10/1/2040	$6.83	$5.72	0%	6.83
2040	11/1/2040	$6.91	$5.84	0%	6.91
2040	12/1/2040	$7.14	$6.11	0%	7.14
2041	1/1/2041	$7.19	$6.56	0%	7.19
2041	2/1/2041	$7.21	$6.49	0%	7.21
2041	3/1/2041	$7.06	$6.37	0%	7.06
2041	4/1/2041	$6.80	$5.81	0%	6.80
2041	5/1/2041	$6.84	$5.77	0%	6.84
2041	6/1/2041	$6.92	$5.84	0%	6.92
2041	7/1/2041	$7.22	$5.91	0%	7.22

2041	8/1/2041	$7.26	$5.99	0%	7.26
2041	9/1/2041	$7.27	$6.01	0%	7.27
2041	10/1/2041	$7.03	$6.10	0%	7.03
2041	11/1/2041	$7.16	$6.23	0%	7.16
2041	12/1/2041	$7.36	$6.52	0%	7.36
2042	1/1/2042	$7.40	$7.00	0%	7.40
2042	2/1/2042	$7.43	$6.93	0%	7.43
2042	3/1/2042	$7.28	$6.80	0%	7.28
2042	4/1/2042	$7.07	$6.21	0%	7.07
2042	5/1/2042	$7.12	$6.16	0%	7.12
2042	6/1/2042	$7.18	$6.23	0%	7.18
2042	7/1/2042	$7.55	$6.31	0%	7.55
2042	8/1/2042	$7.60	$6.39	0%	7.60
2042	9/1/2042	$7.57	$6.42	0%	7.57
2042	10/1/2042	$7.31	$6.51	0%	7.31
2042	11/1/2042	$7.35	$6.65	0%	7.35
2042	12/1/2042	$7.59	$6.96	0%	7.59
2043	1/1/2043	$7.63	$7.47	0%	7.63
2043	2/1/2043	$7.66	$7.40	0%	7.66
2043	3/1/2043	$7.51	$7.26	0%	7.51
2043	4/1/2043	$7.25	$6.62	0%	7.25
2043	5/1/2043	$7.29	$6.58	0%	7.29
2043	6/1/2043	$7.35	$6.65	0%	7.35
2043	7/1/2043	$7.70	$6.73	0%	7.70
2043	8/1/2043	$7.75	$6.82	0%	7.75
2043	9/1/2043	$7.78	$6.85	0%	7.78
2043	10/1/2043	$7.49	$6.95	0%	7.49
2043	11/1/2043	$7.55	$7.10	0%	7.55
2043	12/1/2043	$7.80	$7.42	0%	7.80
2044	1/1/2044	$7.84	$7.97	0%	7.84
2044	2/1/2044	$7.88	$7.89	0%	7.88
2044	3/1/2044	$7.71	$7.75	0%	7.71
2044	4/1/2044	$7.57	$7.07	0%	7.57
2044	5/1/2044	$7.62	$7.02	0%	7.62
2044	6/1/2044	$7.66	$7.10	0%	7.66
2044	7/1/2044	$8.01	$7.19	0%	8.01
2044	8/1/2044	$8.06	$7.28	0%	8.06
2044	9/1/2044	$8.05	$7.31	0%	8.05
2044	10/1/2044	$7.84	$7.41	0%	7.84
2044	11/1/2044	$7.97	$7.58	0%	7.97
2044	12/1/2044	$8.21	$7.92	0%	8.21
2045	1/1/2045	$8.26	$8.51	0%	8.26
2045	2/1/2045	$8.31	$8.42	0%	8.31
2045	3/1/2045	$8.18	$8.27	0%	8.18
2045	4/1/2045	$7.99	$7.54	0%	7.99
2045	5/1/2045	$8.03	$7.49	0%	8.03
2045	6/1/2045	$8.08	$7.57	0%	8.08
2045	7/1/2045	$8.45	$7.67	0%	8.45
2045	8/1/2045	$8.51	$7.77	0%	8.51
2045	9/1/2045	$8.52	$7.80	0%	8.52
2045	10/1/2045	$8.27	$7.91	0%	8.27
2045	11/1/2045	$8.40	$8.08	0%	8.40
2045	12/1/2045	$8.65	$8.46	0%	8.65
2046	1/1/2046	$8.70	$9.08	0%	8.70
2046	2/1/2046	$8.73	$8.99	0%	8.73
2046	3/1/2046	$8.53	$8.82	0%	8.53
2046	4/1/2046	$8.29	$8.05	0%	8.29
2046	5/1/2046	$8.32	$7.99	0%	8.32
2046	6/1/2046	$8.37	$8.08	0%	8.37
2046	7/1/2046	$8.80	$8.19	0%	8.80
2046	8/1/2046	$8.86	$8.29	0%	8.86
2046	9/1/2046	$8.83	$8.33	0%	8.83
2046	10/1/2046	$8.55	$8.44	0%	8.55
2046	11/1/2046	$8.63	$8.63	0%	8.63
2046	12/1/2046	$8.85	$9.03	0%	8.85
2047	1/1/2047	$8.91	$9.69	0%	8.91
2047	2/1/2047	$8.92	$9.59	0%	8.92
2047	3/1/2047	$8.60	$9.42	0%	8.60
2047	4/1/2047	$8.40	$8.59	0%	8.40

2047	5/1/2047	$8.44	$8.19	0%	8.44
2047	6/1/2047	$8.49	$8.29	0%	8.49
2047	7/1/2047	$8.90	$8.39	0%	8.90
2047	8/1/2047	$8.96	$8.50	0%	8.96
2047	9/1/2047	$8.95	$8.53	0%	8.95
2047	10/1/2047	$8.79	$8.66	0%	8.79
2047	11/1/2047	$8.87	$8.84	0%	8.87
2047	12/1/2047	$8.91	$9.25	0%	8.91
2048	1/1/2048	$8.96	$9.93	0%	8.96
2048	2/1/2048	$9.00	$9.83	0%	9.00
2048	3/1/2048	$8.80	$9.65	0%	8.80
2048	4/1/2048	$8.67	$8.81	0%	8.67
2048	5/1/2048	$8.72	$8.40	0%	8.72
2048	6/1/2048	$8.81	$8.49	0%	8.81
2048	7/1/2048	$9.34	$8.60	0%	9.34
2048	8/1/2048	$9.41	$8.71	0%	9.41
2048	9/1/2048	$9.43	$8.75	0%	9.43
2048	10/1/2048	$9.04	$8.87	0%	9.04
2048	11/1/2048	$9.18	$9.07	0%	9.18
2048	12/1/2048	$9.45	$9.48	0%	9.45
2049	1/1/2049	$9.50	$10.18	0%	9.50
2049	2/1/2049	$9.51	$10.08	0%	9.51
2049	3/1/2049	$9.45	$9.89	0%	9.45
2049	4/1/2049	$9.35	$9.03	0%	9.35
2049	5/1/2049	$8.99	$8.61	0%	8.99
2049	6/1/2049	$9.04	$8.70	0%	9.04
2049	7/1/2049	$9.26	$8.82	0%	9.26
2049	8/1/2049	$9.31	$8.93	0%	9.31
2049	9/1/2049	$9.14	$8.97	0%	9.14
2049	10/1/2049	$8.98	$9.09	0%	8.98
2049	11/1/2049	$9.32	$9.29	0%	9.32
2049	12/1/2049	$9.70	$9.72	0%	9.70
2050	1/1/2050	$9.76	$10.43	0%	9.76
2050	2/1/2050	$9.78	$10.33	0%	9.78
2050	3/1/2050	$9.49	$10.14	0%	9.49
2050	4/1/2050	$9.02	$9.25	0%	9.02
2050	5/1/2050	$9.06	$8.82	0%	9.06
2050	6/1/2050	$9.11	$8.92	0%	9.11
2050	7/1/2050	$9.39	$9.04	0%	9.39
2050	8/1/2050	$9.45	$9.15	0%	9.45
2050	9/1/2050	$9.42	$9.19	0%	9.42
2050	10/1/2050	$9.12	$9.32	0%	9.12
2050	11/1/2050	$9.37	$9.52	0%	9.37
2050	12/1/2050	$9.68	$9.96	0%	9.68

US Gas Prices Nominal $

	Henry Hub	Transco Z4	FGT Z3 Gas Prices	Transco Z4	FGT Z3 Bassis Differentials
Jan-19	3.07	$3.02	3.03	($0.06)	($0.046)
Feb-19	2.65	$2.62	2.63	($0.03)	($0.019)
Mar-19	2.60	$2.55	2.60	($0.05)	($0.003)
Apr-19	2.50	$2.47	2.50	($0.03)	($0.001)
May-19	2.59	$2.59	2.60	($0.00)	$0.005
Jun-19	2.57	$2.57	2.60	$0.00	$0.037
Jul-19	2.64	$2.65	2.69	$0.01	$0.048
Aug-19	2.66	$2.68	2.72	$0.01	$0.056
Sep-19	2.11	$2.11	2.13	$0.00	$0.016
Oct-19	2.04	$2.01	2.04	($0.03)	$0.010
Nov-19	2.09	$2.07	2.10	($0.02)	$0.012
Dec-19	2.15	$2.15	2.18	($0.01)	$0.023
Jan-20	2.06	$2.05	2.09	($0.01)	$0.035
Feb-20	2.06	$2.04	2.09	($0.02)	$0.024
Mar-20	1.97	$1.95	1.96	($0.02)	($0.020)
Apr-20	1.81	$1.76	1.79	($0.05)	($0.019)
May-20	1.61	$1.56	1.62	($0.05)	$0.005
Jun-20	1.57	$1.53	1.60	($0.04)	$0.026
Jul-20	1.72	$1.70	1.77	($0.03)	$0.048
Aug-20	1.91	$1.91	1.97	($0.01)	$0.055
Sep-20	2.06	$2.02	2.08	($0.04)	$0.012
Oct-20	2.09	$2.02	2.10	($0.06)	$0.016
Nov-20	2.08	$2.05	2.10	($0.03)	$0.025
Dec-20	2.14	$2.12	2.17	($0.02)	$0.034
Jan-21	2.20	$2.19	2.24	($0.01)	$0.038
Feb-21	2.24	$2.22	2.28	($0.03)	$0.033
Mar-21	2.16	$2.14	2.14	($0.02)	($0.015)
Apr-21	2.11	$2.03	2.08	($0.07)	($0.021)
May-21	2.15	$2.08	2.15	($0.07)	$0.005
Jun-21	2.18	$2.13	2.21	($0.05)	$0.025
Jul-21	2.21	$2.17	2.25	($0.04)	$0.047
Aug-21	2.24	$2.22	2.30	($0.02)	$0.058
Sep-21	2.27	$2.22	2.29	($0.05)	$0.011
Oct-21	2.27	$2.21	2.29	($0.06)	$0.018
Nov-21	2.33	$2.30	2.36	($0.04)	$0.027
Dec-21	2.44	$2.42	2.48	($0.02)	$0.038
Jan-22	2.46	$2.44	2.50	($0.02)	$0.041
Feb-22	2.47	$2.44	2.51	($0.03)	$0.036
Mar-22	2.48	$2.45	2.46	($0.03)	($0.013)
Apr-22	2.50	$2.43	2.49	($0.07)	($0.016)
May-22	2.52	$2.45	2.52	($0.07)	$0.007
Jun-22	2.54	$2.50	2.58	($0.04)	$0.034
Jul-22	2.61	$2.58	2.67	($0.02)	$0.059
Aug-22	2.63	$2.62	2.70	($0.02)	$0.066
Sep-22	2.63	$2.58	2.65	($0.05)	$0.021
Oct-22	2.62	$2.56	2.65	($0.06)	$0.024
Nov-22	2.70	$2.67	2.74	($0.03)	$0.034
Dec-22	2.79	$2.78	2.84	($0.01)	$0.044
Jan-23	2.81	$2.79	2.86	($0.02)	$0.052

Feb-23	2.83	$2.79	2.87	($0.03)	$0.047
Mar-23	2.77	$2.74	2.77	($0.03)	($0.003)
Apr-23	2.73	$2.66	2.72	($0.07)	($0.008)
May-23	2.75	$2.68	2.76	($0.06)	$0.016
Jun-23	2.78	$2.73	2.82	($0.05)	$0.042
Jul-23	2.87	$2.83	2.94	($0.04)	$0.068
Aug-23	2.89	$2.87	2.97	($0.03)	$0.076
Sep-23	2.87	$2.82	2.90	($0.05)	$0.029
Oct-23	2.85	$2.79	2.88	($0.06)	$0.030
Nov-23	3.01	$2.97	3.05	($0.05)	$0.037
Dec-23	3.07	$3.05	3.12	($0.02)	$0.053
Jan-24	3.10	$3.07	3.15	($0.03)	$0.058
Feb-24	3.12	$3.07	3.17	($0.04)	$0.050
Mar-24	3.10	$3.06	3.10	($0.05)	($0.002)
Apr-24	3.08	$3.00	3.08	($0.09)	($0.007)
May-24	3.10	$3.02	3.12	($0.08)	$0.017
Jun-24	3.16	$3.10	3.21	($0.06)	$0.046
Jul-24	3.27	$3.22	3.34	($0.04)	$0.077
Aug-24	3.30	$3.27	3.37	($0.03)	$0.077
Sep-24	3.26	$3.20	3.31	($0.06)	$0.047
Oct-24	3.24	$3.18	3.28	($0.06)	$0.040
Nov-24	3.37	$3.33	3.42	($0.05)	$0.044
Dec-24	3.50	$3.46	3.56	($0.04)	$0.056
Jan-25	3.52	$3.49	3.58	($0.03)	$0.061
Feb-25	3.54	$3.50	3.60	($0.04)	$0.055
Mar-25	3.48	$3.43	3.47	($0.05)	($0.001)
Apr-25	3.42	$3.33	3.41	($0.10)	($0.011)
May-25	3.44	$3.35	3.46	($0.09)	$0.016
Jun-25	3.47	$3.41	3.52	($0.06)	$0.054
Jul-25	3.65	$3.61	3.73	($0.04)	$0.078
Aug-25	3.68	$3.66	3.76	($0.03)	$0.078
Sep-25	3.37	$3.31	3.41	($0.06)	$0.045
Oct-25	3.35	$3.27	3.38	($0.08)	$0.035
Nov-25	3.44	$3.38	3.48	($0.07)	$0.036
Dec-25	3.60	$3.55	3.65	($0.05)	$0.051
Jan-26	3.62	$3.58	3.68	($0.05)	$0.057
Feb-26	3.64	$3.59	3.70	($0.05)	$0.053
Mar-26	3.56	$3.50	3.55	($0.06)	($0.003)
Apr-26	3.50	$3.41	3.50	($0.09)	($0.001)
May-26	3.52	$3.43	3.54	($0.09)	$0.022
Jun-26	3.57	$3.51	3.62	($0.06)	$0.053
Jul-26	3.82	$3.78	3.90	($0.04)	$0.077
Aug-26	3.85	$3.81	3.93	($0.04)	$0.078
Sep-26	3.70	$3.64	3.74	($0.06)	$0.041
Oct-26	3.64	$3.55	3.68	($0.09)	$0.034
Nov-26	3.70	$3.64	3.74	($0.06)	$0.042
Dec-26	3.87	$3.82	3.92	($0.05)	$0.054
Jan-27	3.89	$3.85	3.95	($0.04)	$0.062
Feb-27	3.91	$3.86	3.97	($0.05)	$0.057
Mar-27	3.85	$3.79	3.85	($0.06)	($0.002)
Apr-27	3.71	$3.62	3.71	($0.10)	($0.002)
May-27	3.74	$3.64	3.76	($0.10)	$0.021

Jun-27	3.81	$3.75	3.86		($0.06)	$0.051
Jul-27	4.10	$4.05	4.17		($0.04)	$0.079
Aug-27	4.12	$4.09	4.21		($0.03)	$0.082
Sep-27	4.08	$4.01	4.12		($0.07)	$0.043
Oct-27	3.89	$3.80	3.93		($0.09)	$0.038
Nov-27	3.95	$3.89	4.00		($0.06)	$0.043
Dec-27	4.14	$4.10	4.20		($0.05)	$0.054
Jan-28	4.17	$4.14	4.23		($0.03)	$0.063
Feb-28	4.20	$4.14	4.24		($0.06)	$0.047
Mar-28	4.10	$4.03	4.10		($0.07)	($0.002)
Apr-28	4.07	$3.96	4.06		($0.11)	($0.006)
May-28	4.10	$4.00	4.12		($0.10)	$0.024
Jun-28	4.28	$4.22	4.34		($0.06)	$0.059
Jul-28	4.27	$4.24	4.37		($0.04)	$0.091
Aug-28	4.31	$4.28	4.40		($0.03)	$0.089
Sep-28	4.35	$4.29	4.40		($0.06)	$0.048
Oct-28	4.31	$4.22	4.35		($0.09)	$0.044
Nov-28	4.35	$4.28	4.40		($0.07)	$0.046
Dec-28	4.60	$4.54	4.65		($0.05)	$0.054
Jan-29	4.64	$4.61	4.72		($0.03)	$0.075
Feb-29	4.67	$4.62	4.74		($0.05)	$0.068
Mar-29	4.45	$4.39	4.46		($0.06)	$0.007
Apr-29	4.47	$4.36	4.47		($0.11)	$0.002
May-29	4.53	$4.43	4.56		($0.10)	$0.027
Jun-29	4.66	$4.58	4.72		($0.07)	$0.062
Jul-29	4.39	$4.34	4.48		($0.05)	$0.091
Aug-29	4.42	$4.38	4.52		($0.03)	$0.098
Sep-29	4.54	$4.46	4.59		($0.07)	$0.053
Oct-29	4.52	$4.43	4.57		($0.10)	$0.040
Nov-29	4.43	$4.39	4.49		($0.04)	$0.063
Dec-29	4.63	$4.59	4.70		($0.04)	$0.062
Jan-30	4.67	$4.64	4.74		($0.03)	$0.075
Feb-30	4.69	$4.65	4.76		($0.04)	$0.069
Mar-30	4.58	$4.53	4.59		($0.05)	$0.004
Apr-30	4.55	$4.43	4.54		($0.12)	($0.008)
May-30	4.58	$4.48	4.61		($0.10)	$0.029
Jun-30	4.65	$4.61	4.72		($0.05)	$0.069
Jul-30	4.98	$4.96	5.09		($0.02)	$0.104
Aug-30	5.02	$5.02	5.13		$0.00	$0.113
Sep-30	4.95	$4.89	5.00		($0.05)	$0.056
Oct-30	4.72	$4.64	4.77		($0.08)	$0.053
Nov-30	4.64	$4.59	4.69		($0.04)	$0.056
Dec-30	4.86	$4.82	4.93		($0.04)	$0.064
Jan-31	4.89	$4.85	4.99		($0.04)	$0.098
Feb-31	4.92	$4.87	5.01		($0.05)	$0.092
Mar-31	4.83	$4.76	4.84		($0.06)	$0.019
Apr-31	4.78	$4.66	4.78		($0.13)	$0.000
May-31	4.81	$4.71	4.87		($0.10)	$0.055
Jun-31	4.88	$4.82	4.96		($0.06)	$0.082
Jul-31	5.21	$5.17	5.33		($0.03)	$0.116
Aug-31	5.26	$5.22	5.40		($0.04)	$0.139
Sep-31	5.16	$5.11	5.25		($0.05)	$0.086

Oct-31	5.00	$4.92	5.09	($0.08)	$0.082
Nov-31	5.07	$5.01	5.14	($0.06)	$0.066
Dec-31	5.25	$5.20	5.33	($0.05)	$0.082
Jan-32	5.28	$5.23	5.39	($0.05)	$0.106
Feb-32	5.31	$5.25	5.39	($0.06)	$0.077
Mar-32	5.29	$5.22	5.34	($0.07)	$0.050
Apr-32	5.13	$5.00	5.15	($0.13)	$0.026
May-32	5.16	$5.05	5.22	($0.10)	$0.069
Jun-32	5.19	$5.13	5.28	($0.06)	$0.095
Jul-32	5.33	$5.29	5.47	($0.04)	$0.136
Aug-32	5.38	$5.35	5.54	($0.03)	$0.159
Sep-32	5.30	$5.25	5.39	($0.05)	$0.091
Oct-32	5.27	$5.19	5.35	($0.08)	$0.088
Nov-32	5.39	$5.28	5.44	($0.11)	$0.053
Dec-32	5.40	$5.33	5.47	($0.08)	$0.072
Jan-33	5.14	$5.07	5.23	($0.06)	$0.093
Feb-33	5.17	$5.10	5.26	($0.07)	$0.091
Mar-33	5.12	$5.02	5.14	($0.10)	$0.022
Apr-33	5.12	$4.98	5.14	($0.14)	$0.016
May-33	5.15	$5.02	5.19	($0.14)	$0.032
Jun-33	5.19	$5.11	5.27	($0.08)	$0.080
Jul-33	5.35	$5.31	5.47	($0.04)	$0.119
Aug-33	5.39	$5.37	5.52	($0.02)	$0.127
Sep-33	5.32	$5.25	5.39	($0.08)	$0.068
Oct-33	5.27	$5.15	5.33	($0.12)	$0.053
Nov-33	5.43	$5.32	5.46	($0.11)	$0.033
Dec-33	5.62	$5.54	5.67	($0.08)	$0.047
Jan-34	5.66	$5.59	5.74	($0.06)	$0.080
Feb-34	5.49	$5.42	5.55	($0.07)	$0.056
Mar-34	5.34	$5.23	5.33	($0.11)	($0.008)
Apr-34	5.27	$5.14	5.28	($0.13)	$0.009
May-34	5.31	$5.17	5.35	($0.13)	$0.039
Jun-34	5.34	$5.26	5.43	($0.08)	$0.084
Jul-34	5.60	$5.55	5.72	($0.04)	$0.125
Aug-34	5.64	$5.62	5.78	($0.02)	$0.144
Sep-34	5.53	$5.46	5.61	($0.08)	$0.074
Oct-34	5.40	$5.27	5.45	($0.13)	$0.049
Nov-34	5.63	$5.52	5.67	($0.11)	$0.034
Dec-34	5.83	$5.76	5.88	($0.07)	$0.055
Jan-35	5.87	$5.81	5.96	($0.06)	$0.086
Feb-35	5.90	$5.83	5.96	($0.07)	$0.065
Mar-35	5.72	$5.61	5.74	($0.11)	$0.018
Apr-35	5.46	$5.32	5.49	($0.14)	$0.023
May-35	5.50	$5.36	5.54	($0.13)	$0.046
Jun-35	5.53	$5.45	5.62	($0.08)	$0.091
Jul-35	5.82	$5.78	5.95	($0.04)	$0.130
Aug-35	5.85	$5.83	6.00	($0.03)	$0.147
Sep-35	5.76	$5.68	5.83	($0.08)	$0.075
Oct-35	5.61	$5.48	5.66	($0.13)	$0.048
Nov-35	5.66	$5.55	5.69	($0.11)	$0.033
Dec-35	5.81	$5.74	5.87	($0.07)	$0.058
Jan-36	5.85	$5.79	5.94	($0.06)	$0.093

Feb-36	5.88	$5.80	5.91		($0.08)	$0.034
Mar-36	5.78	$5.67	5.80		($0.11)	$0.020
Apr-36	5.55	$5.41	5.57		($0.14)	$0.023
May-36	5.59	$5.45	5.64		($0.13)	$0.049
Jun-36	5.63	$5.54	5.72		($0.08)	$0.096
Jul-36	5.79	$5.75	5.93		($0.04)	$0.135
Aug-36	5.83	$5.80	5.98		($0.03)	$0.150
Sep-36	5.81	$5.73	5.90		($0.07)	$0.089
Oct-36	5.77	$5.64	5.84		($0.12)	$0.076
Nov-36	5.85	$5.74	5.90		($0.11)	$0.051
Dec-36	6.11	$6.04	6.18		($0.07)	$0.064
Jan-37	6.16	$6.10	6.27		($0.06)	$0.105
Feb-37	6.20	$6.13	6.28		($0.07)	$0.081
Mar-37	6.11	$5.99	6.13		($0.11)	$0.024
Apr-37	5.93	$5.79	5.95		($0.14)	$0.021
May-37	5.97	$5.83	6.02		($0.14)	$0.055
Jun-37	6.03	$5.95	6.14		($0.08)	$0.111
Jul-37	6.29	$6.25	6.43		($0.04)	$0.147
Aug-37	6.33	$6.30	6.47		($0.03)	$0.147
Sep-37	6.24	$6.17	6.34		($0.07)	$0.096
Oct-37	6.17	$6.04	6.25		($0.14)	$0.074
Nov-37	6.25	$6.13	6.30		($0.12)	$0.052
Dec-37	6.51	$6.44	6.59		($0.07)	$0.078
Jan-38	6.55	$6.49	6.66		($0.06)	$0.111
Feb-38	6.59	$6.52	6.68		($0.08)	$0.088
Mar-38	6.49	$6.37	6.52		($0.12)	$0.026
Apr-38	6.27	$6.13	6.31		($0.14)	$0.044
May-38	6.31	$6.17	6.37		($0.14)	$0.060
Jun-38	6.35	$6.27	6.47		($0.08)	$0.118
Jul-38	6.53	$6.49	6.69		($0.04)	$0.152
Aug-38	6.58	$6.54	6.73		($0.04)	$0.145
Sep-38	6.43	$6.36	6.54		($0.07)	$0.104
Oct-38	6.37	$6.23	6.43		($0.14)	$0.064
Nov-38	6.47	$6.35	6.55		($0.12)	$0.073
Dec-38	6.70	$6.63	6.80		($0.07)	$0.100
Jan-39	6.75	$6.68	6.87		($0.06)	$0.119
Feb-39	6.79	$6.72	6.89		($0.07)	$0.101
Mar-39	6.63	$6.51	6.66		($0.12)	$0.032
Apr-39	6.20	$6.05	6.24		($0.15)	$0.041
May-39	6.24	$6.09	6.29		($0.15)	$0.052
Jun-39	6.28	$6.19	6.39		($0.09)	$0.115
Jul-39	6.34	$6.28	6.47		($0.06)	$0.129
Aug-39	6.89	$6.84	7.04		($0.05)	$0.145
Sep-39	6.86	$6.78	6.95		($0.08)	$0.088
Oct-39	6.60	$6.46	6.69		($0.14)	$0.081
Nov-39	6.68	$6.56	6.74		($0.12)	$0.063
Dec-39	6.88	$6.80	6.97		($0.09)	$0.087
Jan-40	6.93	$6.86	7.02		($0.07)	$0.098
Feb-40	6.96	$6.85	7.02		($0.11)	$0.061
Mar-40	6.85	$6.72	6.88		($0.12)	$0.033
Apr-40	6.62	$6.47	6.63		($0.15)	$0.013
May-40	6.66	$6.51	6.72		($0.15)	$0.058

Jun-40	6.72	$6.62	6.82		($0.10)	$0.108
Jul-40	6.96	$6.91	7.11		($0.05)	$0.144
Aug-40	7.01	$6.97	7.16		($0.04)	$0.155
Sep-40	6.99	$6.91	7.09		($0.08)	$0.098
Oct-40	6.83	$6.68	6.92		($0.15)	$0.086
Nov-40	6.91	$6.78	6.98		($0.13)	$0.069
Dec-40	7.14	$7.07	7.25		($0.07)	$0.111
Jan-41	7.19	$7.12	7.30		($0.06)	$0.113
Feb-41	7.21	$7.12	7.30		($0.09)	$0.083
Mar-41	7.06	$6.93	7.10		($0.13)	$0.037
Apr-41	6.80	$6.65	6.85		($0.15)	$0.048
May-41	6.84	$6.69	6.90		($0.15)	$0.061
Jun-41	6.92	$6.83	7.04		($0.09)	$0.124
Jul-41	7.22	$7.18	7.39		($0.04)	$0.166
Aug-41	7.26	$7.24	7.42		($0.03)	$0.158
Sep-41	7.27	$7.19	7.38		($0.08)	$0.116
Oct-41	7.03	$6.87	7.09		($0.16)	$0.061
Nov-41	7.16	$7.03	7.23		($0.13)	$0.077
Dec-41	7.36	$7.30	7.49		($0.06)	$0.127
Jan-42	7.40	$7.35	7.52		($0.05)	$0.120
Feb-42	7.43	$7.35	7.52		($0.09)	$0.089
Mar-42	7.28	$7.14	7.31		($0.14)	$0.033
Apr-42	7.07	$6.91	7.12		($0.16)	$0.045
May-42	7.12	$6.96	7.18		($0.16)	$0.063
Jun-42	7.18	$7.10	7.32		($0.08)	$0.134
Jul-42	7.55	$7.51	7.72		($0.05)	$0.168
Aug-42	7.60	$7.59	7.77		($0.01)	$0.171
Sep-42	7.57	$7.50	7.69		($0.07)	$0.120
Oct-42	7.31	$7.16	7.39		($0.15)	$0.080
Nov-42	7.35	$7.22	7.43		($0.14)	$0.075
Dec-42	7.59	$7.46	7.69		($0.13)	$0.102
Jan-43	7.63	$7.53	7.74		($0.10)	$0.105
Feb-43	7.66	$7.50	7.71		($0.15)	$0.058
Mar-43	7.51	$7.37	7.54		($0.14)	$0.035
Apr-43	7.25	$7.05	7.27		($0.19)	$0.028
May-43	7.29	$7.10	7.34		($0.19)	$0.050
Jun-43	7.35	$7.19	7.45		($0.16)	$0.106
Jul-43	7.70	$7.63	7.87		($0.08)	$0.164
Aug-43	7.75	$7.69	7.91		($0.06)	$0.156
Sep-43	7.78	$7.61	7.87		($0.17)	$0.091
Oct-43	7.49	$7.32	7.56		($0.17)	$0.077
Nov-43	7.55	$7.39	7.62		($0.16)	$0.066
Dec-43	7.80	$7.65	7.89		($0.14)	$0.097
Jan-44	7.84	$7.72	7.94		($0.12)	$0.099
Feb-44	7.88	$7.72	7.94		($0.16)	$0.059
Mar-44	7.71	$7.55	7.74		($0.16)	$0.025
Apr-44	7.57	$7.36	7.60		($0.21)	$0.029
May-44	7.62	$7.40	7.65		($0.22)	$0.040
Jun-44	7.66	$7.49	7.77		($0.17)	$0.105
Jul-44	8.01	$7.93	8.17		($0.08)	$0.160
Aug-44	8.06	$8.00	8.22		($0.06)	$0.162
Sep-44	8.05	$7.85	8.13		($0.19)	$0.080

Oct-44	7.84	$7.63	7.89		($0.22)	$0.045
Nov-44	7.97	$7.78	8.03		($0.18)	$0.060
Dec-44	8.21	$8.06	8.31		($0.15)	$0.099
Jan-45	8.26	$8.14	8.37		($0.12)	$0.107
Feb-45	8.31	$8.14	8.37		($0.17)	$0.056
Mar-45	8.18	$8.01	8.21		($0.16)	$0.031
Apr-45	7.99	$7.76	8.01		($0.23)	$0.026
May-45	8.03	$7.81	8.07		($0.22)	$0.042
Jun-45	8.08	$7.91	8.19		($0.17)	$0.109
Jul-45	8.45	$8.36	8.61		($0.09)	$0.157
Aug-45	8.51	$8.44	8.68		($0.06)	$0.169
Sep-45	8.52	$8.32	8.61		($0.20)	$0.085
Oct-45	8.27	$8.05	8.33		($0.22)	$0.062
Nov-45	8.40	$8.21	8.46		($0.19)	$0.062
Dec-45	8.65	$8.49	8.75		($0.16)	$0.096
Jan-46	8.70	$8.59	8.82		($0.11)	$0.115
Feb-46	8.73	$8.56	8.79		($0.17)	$0.062
Mar-46	8.53	$8.34	8.55		($0.19)	$0.022
Apr-46	8.29	$8.05	8.31		($0.24)	$0.018
May-46	8.32	$8.10	8.37		($0.23)	$0.043
Jun-46	8.37	$8.20	8.48		($0.18)	$0.110
Jul-46	8.80	$8.70	8.96		($0.10)	$0.158
Aug-46	8.86	$8.80	9.03		($0.06)	$0.176
Sep-46	8.83	$8.63	8.91		($0.20)	$0.081
Oct-46	8.55	$8.33	8.61		($0.22)	$0.062
Nov-46	8.63	$8.43	8.69		($0.19)	$0.064
Dec-46	8.85	$8.70	8.96		($0.15)	$0.103
Jan-47	8.91	$8.80	9.03		($0.10)	$0.126
Feb-47	8.92	$8.73	8.98		($0.19)	$0.058
Mar-47	8.60	$8.39	8.62		($0.21)	$0.019
Apr-47	8.40	$8.15	8.43		($0.25)	$0.022
May-47	8.44	$8.19	8.48		($0.24)	$0.039
Jun-47	8.49	$8.33	8.61		($0.15)	$0.123
Jul-47	8.90	$8.81	9.07		($0.09)	$0.165
Aug-47	8.96	$8.90	9.14		($0.05)	$0.182
Sep-47	8.95	$8.79	9.04		($0.17)	$0.088
Oct-47	8.79	$8.56	8.85		($0.23)	$0.052
Nov-47	8.87	$8.64	8.92		($0.23)	$0.052
Dec-47	8.91	$8.73	9.00		($0.18)	$0.093
Jan-48	8.96	$8.84	9.07		($0.12)	$0.109
Feb-48	9.00	$8.79	9.04		($0.21)	$0.036
Mar-48	8.80	$8.57	8.81		($0.23)	$0.007
Apr-48	8.67	$8.41	8.69		($0.26)	$0.022
May-48	8.72	$8.47	8.75		($0.25)	$0.032
Jun-48	8.81	$8.63	8.91		($0.19)	$0.099
Jul-48	9.34	$9.22	9.48		($0.13)	$0.136
Aug-48	9.41	$9.35	9.59		($0.06)	$0.181
Sep-48	9.43	$9.23	9.50		($0.20)	$0.072
Oct-48	9.04	$8.79	9.10		($0.25)	$0.058
Nov-48	9.18	$8.94	9.23		($0.24)	$0.046
Dec-48	9.45	$9.23	9.51		($0.22)	$0.061
Jan-49	9.50	$9.32	9.59		($0.18)	$0.085

Feb-49	9.51	$9.28	9.54	($0.23)	$0.031
Mar-49	9.45	$9.22	9.46	($0.23)	$0.007
Apr-49	9.35	$9.09	9.36	($0.26)	$0.019
May-49	8.99	$8.74	9.02	($0.25)	$0.033
Jun-49	9.04	$8.83	9.13	($0.21)	$0.089
Jul-49	9.26	$9.11	9.38	($0.15)	$0.124
Aug-49	9.31	$9.18	9.46	($0.13)	$0.151
Sep-49	9.14	$8.95	9.21	($0.19)	$0.071
Oct-49	8.98	$8.73	9.03	($0.24)	$0.058
Nov-49	9.32	$9.08	9.37	($0.24)	$0.046
Dec-49	9.70	$9.49	9.76	($0.22)	$0.062
Jan-50	9.76	$9.58	9.84	($0.17)	$0.086
Feb-50	9.78	$9.55	9.82	($0.23)	$0.033
Mar-50	9.49	$9.26	9.49	($0.23)	$0.006
Apr-50	9.02	$8.76	9.04	($0.26)	$0.023
May-50	9.06	$8.81	9.09	($0.25)	$0.032
Jun-50	9.11	$8.91	9.20	($0.20)	$0.097
Jul-50	9.39	$9.24	9.52	($0.15)	$0.124
Aug-50	9.45	$9.33	9.61	($0.12)	$0.158
Sep-50	9.42	$9.23	9.50	($0.19)	$0.072
Oct-50	9.12	$8.89	9.18	($0.23)	$0.063
Nov-50	9.37	$9.13	9.42	($0.24)	$0.047
Dec-50	9.68	$9.47	9.75	($0.21)	$0.065

IHS Markit North American Natural Gas Long-Term Outlook, August 2019
Nominal $/MMBtu
Henry Hub and additional hubs

Month-Year	<Year>	Henry Hub	FGT Z3	Transco Z4	FGT Z3	Transco Z4
Jan-19	2019	$ 3.07	$ (0.05)	$ (0.06)	$ 3.03	$ 3.02
Feb-19	2019	$ 2.65	$ (0.02)	$ (0.03)	$ 2.63	$ 2.62
Mar-19	2019	$ 2.60	$ (0.00)	$ (0.05)	$ 2.60	$ 2.55
Apr-19	2019	$ 2.50	$ (0.00)	$ (0.03)	$ 2.50	$ 2.47
May-19	2019	$ 2.59	$ 0.01	$ (0.00)	$ 2.60	$ 2.59
Jun-19	2019	$ 2.57	$ 0.04	$ 0.00	$ 2.60	$ 2.57
Jul-19	2019	$ 2.64	$ 0.05	$ 0.01	$ 2.69	$ 2.65
Aug-19	2019	$ 2.66	$ 0.06	$ 0.01	$ 2.72	$ 2.68
Sep-19	2019	$ 2.11	$ 0.02	$ 0.00	$ 2.13	$ 2.11
Oct-19	2019	$ 2.04	$ 0.01	$ (0.03)	$ 2.04	$ 2.01
Nov-19	2019	$ 2.09	$ 0.01	$ (0.02)	$ 2.10	$ 2.07
Dec-19	2019	$ 2.15	$ 0.02	$ (0.01)	$ 2.18	$ 2.15
Jan-20	2020	$ 2.06	$ 0.03	$ (0.01)	$ 2.09	$ 2.05
Feb-20	2020	$ 2.06	$ 0.02	$ (0.02)	$ 2.09	$ 2.04
Mar-20	2020	$ 1.97	$ (0.02)	$ (0.02)	$ 1.96	$ 1.95
Apr-20	2020	$ 1.81	$ (0.02)	$ (0.05)	$ 1.79	$ 1.76
May-20	2020	$ 1.61	$ 0.01	$ (0.05)	$ 1.62	$ 1.56
Jun-20	2020	$ 1.57	$ 0.03	$ (0.04)	$ 1.60	$ 1.53
Jul-20	2020	$ 1.72	$ 0.05	$ (0.03)	$ 1.77	$ 1.70
Aug-20	2020	$ 1.91	$ 0.05	$ (0.01)	$ 1.97	$ 1.91
Sep-20	2020	$ 2.06	$ 0.01	$ (0.04)	$ 2.08	$ 2.02
Oct-20	2020	$ 2.09	$ 0.02	$ (0.06)	$ 2.10	$ 2.02
Nov-20	2020	$ 2.08	$ 0.02	$ (0.03)	$ 2.10	$ 2.05
Dec-20	2020	$ 2.14	$ 0.03	$ (0.02)	$ 2.17	$ 2.12
Jan-21	2021	$ 2.20	$ 0.04	$ (0.01)	$ 2.24	$ 2.19
Feb-21	2021	$ 2.24	$ 0.03	$ (0.03)	$ 2.28	$ 2.22
Mar-21	2021	$ 2.16	$ (0.01)	$ (0.02)	$ 2.14	$ 2.14
Apr-21	2021	$ 2.11	$ (0.02)	$ (0.07)	$ 2.08	$ 2.03
May-21	2021	$ 2.15	$ 0.01	$ (0.07)	$ 2.15	$ 2.08
Jun-21	2021	$ 2.18	$ 0.03	$ (0.05)	$ 2.21	$ 2.13
Jul-21	2021	$ 2.21	$ 0.05	$ (0.04)	$ 2.25	$ 2.17
Aug-21	2021	$ 2.24	$ 0.06	$ (0.02)	$ 2.30	$ 2.22
Sep-21	2021	$ 2.27	$ 0.01	$ (0.05)	$ 2.29	$ 2.22
Oct-21	2021	$ 2.27	$ 0.02	$ (0.06)	$ 2.29	$ 2.21
Nov-21	2021	$ 2.33	$ 0.03	$ (0.04)	$ 2.36	$ 2.30
Dec-21	2021	$ 2.44	$ 0.04	$ (0.02)	$ 2.48	$ 2.42
Jan-22	2022	$ 2.46	$ 0.04	$ (0.02)	$ 2.50	$ 2.44
Feb-22	2022	$ 2.47	$ 0.04	$ (0.03)	$ 2.51	$ 2.44
Mar-22	2022	$ 2.48	$ (0.01)	$ (0.03)	$ 2.46	$ 2.45
Apr-22	2022	$ 2.50	$ (0.02)	$ (0.07)	$ 2.49	$ 2.43
May-22	2022	$ 2.52	$ 0.01	$ (0.07)	$ 2.52	$ 2.45
Jun-22	2022	$ 2.54	$ 0.03	$ (0.04)	$ 2.58	$ 2.50
Jul-22	2022	$ 2.61	$ 0.06	$ (0.02)	$ 2.67	$ 2.58
Aug-22	2022	$ 2.63	$ 0.07	$ (0.02)	$ 2.70	$ 2.62
Sep-22	2022	$ 2.63	$ 0.02	$ (0.05)	$ 2.65	$ 2.58
Oct-22	2022	$ 2.62	$ 0.02	$ (0.06)	$ 2.65	$ 2.56
Nov-22	2022	$ 2.70	$ 0.03	$ (0.03)	$ 2.74	$ 2.67
Dec-22	2022	$ 2.79	$ 0.04	$ (0.01)	$ 2.84	$ 2.78
Jan-23	2023	$ 2.81	$ 0.05	$ (0.02)	$ 2.86	$ 2.79
Feb-23	2023	$ 2.83	$ 0.05	$ (0.03)	$ 2.87	$ 2.79
Mar-23	2023	$ 2.77	$ (0.00)	$ (0.03)	$ 2.77	$ 2.74
Apr-23	2023	$ 2.73	$ (0.01)	$ (0.07)	$ 2.72	$ 2.66
May-23	2023	$ 2.75	$ 0.02	$ (0.06)	$ 2.76	$ 2.68
Jun-23	2023	$ 2.78	$ 0.04	$ (0.05)	$ 2.82	$ 2.73
Jul-23	2023	$ 2.87	$ 0.07	$ (0.04)	$ 2.94	$ 2.83
Aug-23	2023	$ 2.89	$ 0.08	$ (0.03)	$ 2.97	$ 2.87
Sep-23	2023	$ 2.87	$ 0.03	$ (0.05)	$ 2.90	$ 2.82
Oct-23	2023	$ 2.85	$ 0.03	$ (0.06)	$ 2.88	$ 2.79
Nov-23	2023	$ 3.01	$ 0.04	$ (0.05)	$ 3.05	$ 2.97
Dec-23	2023	$ 3.07	$ 0.05	$ (0.02)	$ 3.12	$ 3.05
Jan-24	2024	$ 3.10	$ 0.06	$ (0.03)	$ 3.15	$ 3.07
Feb-24	2024	$ 3.12	$ 0.05	$ (0.04)	$ 3.17	$ 3.07
Mar-24	2024	$ 3.10	$ (0.00)	$ (0.05)	$ 3.10	$ 3.06
Apr-24	2024	$ 3.08	$ (0.01)	$ (0.09)	$ 3.08	$ 3.00
May-24	2024	$ 3.10	$ 0.02	$ (0.08)	$ 3.12	$ 3.02
Jun-24	2024	$ 3.16	$ 0.05	$ (0.06)	$ 3.21	$ 3.10
Jul-24	2024	$ 3.27	$ 0.08	$ (0.04)	$ 3.34	$ 3.22
Aug-24	2024	$ 3.30	$ 0.08	$ (0.03)	$ 3.37	$ 3.27
Sep-24	2024	$ 3.26	$ 0.05	$ (0.06)	$ 3.31	$ 3.20
Oct-24	2024	$ 3.24	$ 0.04	$ (0.06)	$ 3.28	$ 3.18
Nov-24	2024	$ 3.37	$ 0.04	$ (0.05)	$ 3.42	$ 3.33
Dec-24	2024	$ 3.50	$ 0.06	$ (0.04)	$ 3.56	$ 3.46
Jan-25	2025	$ 3.52	$ 0.06	$ (0.03)	$ 3.58	$ 3.49
Feb-25	2025	$ 3.54	$ 0.06	$ (0.04)	$ 3.60	$ 3.50
Mar-25	2025	$ 3.48	$ (0.00)	$ (0.05)	$ 3.47	$ 3.43
Apr-25	2025	$ 3.42	$ (0.01)	$ (0.10)	$ 3.41	$ 3.33
May-25	2025	$ 3.44	$ 0.02	$ (0.09)	$ 3.46	$ 3.35
Jun-25	2025	$ 3.47	$ 0.05	$ (0.06)	$ 3.52	$ 3.41
Jul-25	2025	$ 3.65	$ 0.08	$ (0.04)	$ 3.73	$ 3.61
Aug-25	2025	$ 3.68	$ 0.08	$ (0.03)	$ 3.76	$ 3.66
Sep-25	2025	$ 3.37	$ 0.05	$ (0.06)	$ 3.41	$ 3.31
Oct-25	2025	$ 3.35	$ 0.04	$ (0.08)	$ 3.38	$ 3.27
Nov-25	2025	$ 3.44	$ 0.04	$ (0.07)	$ 3.48	$ 3.38
Dec-25	2025	$ 3.60	$ 0.05	$ (0.05)	$ 3.65	$ 3.55
Jan-26	2026	$ 3.62	$ 0.06	$ (0.05)	$ 3.68	$ 3.58
Feb-26	2026	$ 3.64	$ 0.05	$ (0.05)	$ 3.70	$ 3.59
Mar-26	2026	$ 3.56	$ (0.00)	$ (0.06)	$ 3.55	$ 3.50
Apr-26	2026	$ 3.50	$ (0.00)	$ (0.09)	$ 3.50	$ 3.41
May-26	2026	$ 3.52	$ 0.02	$ (0.09)	$ 3.54	$ 3.43
Jun-26	2026	$ 3.57	$ 0.05	$ (0.06)	$ 3.62	$ 3.51
Jul-26	2026	$ 3.82	$ 0.08	$ (0.04)	$ 3.90	$ 3.78
Aug-26	2026	$ 3.85	$ 0.08	$ (0.04)	$ 3.93	$ 3.81
Sep-26	2026	$ 3.70	$ 0.04	$ (0.06)	$ 3.74	$ 3.64
Oct-26	2026	$ 3.64	$ 0.03	$ (0.09)	$ 3.68	$ 3.55
Nov-26	2026	$ 3.70	$ 0.04	$ (0.06)	$ 3.74	$ 3.64
Dec-26	2026	$ 3.87	$ 0.05	$ (0.05)	$ 3.92	$ 3.82
Jan-27	2027	$ 3.89	$ 0.06	$ (0.04)	$ 3.95	$ 3.85
Feb-27	2027	$ 3.91	$ 0.06	$ (0.05)	$ 3.97	$ 3.86
Mar-27	2027	$ 3.85	$ (0.00)	$ (0.06)	$ 3.85	$ 3.79
Apr-27	2027	$ 3.71	$ (0.00)	$ (0.10)	$ 3.71	$ 3.62
May-27	2027	$ 3.74	$ 0.02	$ (0.10)	$ 3.76	$ 3.64
Jun-27	2027	$ 3.81	$ 0.05	$ (0.06)	$ 3.86	$ 3.75
Jul-27	2027	$ 4.10	$ 0.08	$ (0.04)	$ 4.17	$ 4.05
Aug-27	2027	$ 4.12	$ 0.08	$ (0.03)	$ 4.21	$ 4.09
Sep-27	2027	$ 4.08	$ 0.04	$ (0.07)	$ 4.12	$ 4.01
Oct-27	2027	$ 3.89	$ 0.04	$ (0.09)	$ 3.93	$ 3.80
Nov-27	2027	$ 3.95	$ 0.04	$ (0.06)	$ 4.00	$ 3.89
Dec-27	2027	$ 4.14	$ 0.05	$ (0.05)	$ 4.20	$ 4.10
Jan-28	2028	$ 4.17	$ 0.06	$ (0.03)	$ 4.23	$ 4.14
Feb-28	2028	$ 4.20	$ 0.05	$ (0.06)	$ 4.24	$ 4.14
Mar-28	2028	$ 4.10	$ (0.00)	$ (0.07)	$ 4.10	$ 4.03
Apr-28	2028	$ 4.07	$ (0.01)	$ (0.11)	$ 4.06	$ 3.96
May-28	2028	$ 4.10	$ 0.02	$ (0.10)	$ 4.12	$ 4.00
Jun-28	2028	$ 4.28	$ 0.06	$ (0.06)	$ 4.34	$ 4.22
Jul-28	2028	$ 4.27	$ 0.09	$ (0.04)	$ 4.37	$ 4.24
Aug-28	2028	$ 4.31	$ 0.09	$ (0.03)	$ 4.40	$ 4.28
Sep-28	2028	$ 4.35	$ 0.05	$ (0.06)	$ 4.40	$ 4.29
Oct-28	2028	$ 4.31	$ 0.04	$ (0.09)	$ 4.35	$ 4.22
Nov-28	2028	$ 4.35	$ 0.05	$ (0.07)	$ 4.40	$ 4.28
Dec-28	2028	$ 4.60	$ 0.05	$ (0.05)	$ 4.65	$ 4.54

ANNUAL ROLLUP --- CHECK AGAINST IHSM FILE

Year	Henry Hub	ANR SE	FGT Z3	TGP 800	SONAT LA	nion, South	TETCO M1	ANR ML7	TETCO M2	Transco Z3	Transco Z4	Transco Z5
2019	$ 2.47	$ 2.38	$ 2.48	$ 2.39	$ 2.43	$ 2.09	$ 2.36	$ 2.43	$ 2.09	$ 2.44	$ 2.46	$ 2.64
2020	$ 1.92	$ 1.82	$ 1.94	$ 1.84	$ 1.90	$ 1.59	$ 1.80	$ 1.79	$ 1.56	$ 1.90	$ 1.89	$ 1.99
2021	$ 2.23	$ 2.14	$ 2.26	$ 2.15	$ 2.21	$ 1.94	$ 2.12	$ 2.10	$ 1.93	$ 2.20	$ 2.19	$ 2.27
2022	$ 2.58	$ 2.49	$ 2.61	$ 2.49	$ 2.56	$ 2.25	$ 2.45	$ 2.43	$ 2.25	$ 2.55	$ 2.54	$ 2.61
2023	$ 2.85	$ 2.76	$ 2.89	$ 2.76	$ 2.84	$ 2.46	$ 2.71	$ 2.68	$ 2.35	$ 2.82	$ 2.81	$ 2.87
2024	$ 3.22	$ 3.11	$ 3.26	$ 3.11	$ 3.20	$ 2.76	$ 3.05	$ 3.03	$ 2.61	$ 3.19	$ 3.16	$ 3.22
2025	$ 3.50	$ 3.38	$ 3.54	$ 3.38	$ 3.49	$ 3.01	$ 3.33	$ 3.32	$ 2.80	$ 3.47	$ 3.44	$ 3.47
2026	$ 3.67	$ 3.53	$ 3.71	$ 3.54	$ 3.64	$ 3.11	$ 3.48	$ 3.48	$ 2.93	$ 3.64	$ 3.60	$ 3.63
2027	$ 3.93	$ 3.78	$ 3.98	$ 3.79	$ 3.91	$ 3.23	$ 3.73	$ 3.72	$ 3.14	$ 3.90	$ 3.87	$ 3.85
2028	$ 4.26	$ 4.09	$ 4.30	$ 4.12	$ 4.23	$ 3.38	$ 4.03	$ 4.02	$ 3.37	$ 4.23	$ 4.20	$ 4.12
2029	$ 4.53	$ 4.34	$ 4.58	$ 4.38	$ 4.48	$ 3.53	$ 4.28	$ 4.29	$ 3.62	$ 4.51	$ 4.47	$ 4.33
2030	$ 4.74	$ 4.55	$ 4.80	$ 4.59	$ 4.66	$ 4.02	$ 4.47	$ 4.47	$ 3.59	$ 4.73	$ 4.69	$ 4.66
2031	$ 5.01	$ 4.82	$ 5.08	$ 4.86	$ 4.94	$ 4.33	$ 4.74	$ 4.82	$ 4.14	$ 4.99	$ 4.94	$ 4.95
2032	$ 5.29	$ 5.10	$ 5.37	$ 5.15	$ 5.23	$ 4.64	$ 5.02	$ 5.07	$ 4.50	$ 5.27	$ 5.21	$ 5.26
2033	$ 5.27	$ 5.09	$ 5.34	$ 5.13	$ 5.20	$ 4.55	$ 5.00	$ 5.05	$ 4.51	$ 5.26	$ 5.19	$ 5.25
2034	$ 5.50	$ 5.32	$ 5.57	$ 5.36	$ 5.44	$ 4.69	$ 5.22	$ 5.30	$ 4.85	$ 5.49	$ 5.42	$ 5.48
2035	$ 5.71	$ 5.52	$ 5.78	$ 5.56	$ 5.63	$ 5.00	$ 5.42	$ 5.52	$ 5.07	$ 5.69	$ 5.62	$ 5.70
2036	$ 5.79	$ 5.60	$ 5.86	$ 5.64	$ 5.73	$ 5.16	$ 5.50	$ 5.59	$ 5.16	$ 5.77	$ 5.70	$ 5.79
2037	$ 6.18	$ 5.99	$ 6.26	$ 6.01	$ 6.12	$ 5.50	$ 5.88	$ 5.96	$ 5.40	$ 6.17	$ 6.09	$ 6.18
2038	$ 6.47	$ 6.26	$ 6.56	$ 6.28	$ 6.40	$ 5.76	$ 6.16	$ 6.23	$ 5.61	$ 6.47	$ 6.38	$ 6.43
2039	$ 6.60	$ 6.36	$ 6.68	$ 6.38	$ 6.53	$ 5.77	$ 6.26	$ 6.33	$ 5.67	$ 6.60	$ 6.50	$ 6.50
2040	$ 6.88	$ 6.63	$ 6.97	$ 6.65	$ 6.80	$ 6.11	$ 6.53	$ 6.60	$ 5.89	$ 6.88	$ 6.78	$ 6.81
2041	$ 7.11	$ 6.85	$ 7.21	$ 6.85	$ 7.03	$ 6.18	$ 6.76	$ 6.84	$ 6.14	$ 7.12	$ 7.01	$ 6.98
2042	$ 7.37	$ 7.10	$ 7.47	$ 7.10	$ 7.29	$ 6.39	$ 7.00	$ 7.07	$ 6.38	$ 7.38	$ 7.27	$ 7.23
2043	$ 7.56	$ 7.29	$ 7.65	$ 7.29	$ 7.49	$ 6.59	$ 7.18	$ 7.25	$ 6.63	$ 7.58	$ 7.42	$ 7.40
2044	$ 7.87	$ 7.59	$ 7.95	$ 7.59	$ 7.79	$ 7.01	$ 7.48	$ 7.54	$ 6.99	$ 7.88	$ 7.71	$ 7.76
2045	$ 8.30	$ 8.00	$ 8.39	$ 7.98	$ 8.25	$ 7.39	$ 7.91	$ 7.96	$ 7.27	$ 8.32	$ 8.14	$ 8.17
2046	$ 8.62	$ 8.30	$ 8.71	$ 8.29	$ 8.59	$ 7.65	$ 8.22	$ 8.26	$ 7.57	$ 8.65	$ 8.45	$ 8.44
2047	$ 8.76	$ 8.43	$ 8.85	$ 8.43	$ 8.72	$ 7.68	$ 8.35	$ 8.38	$ 7.72	$ 8.78	$ 8.59	$ 8.56
2048	$ 9.07	$ 8.73	$ 9.14	$ 8.73	$ 9.04	$ 7.90	$ 8.67	$ 8.67	$ 7.99	$ 9.10	$ 8.87	$ 8.83
2049	$ 9.30	$ 8.96	$ 9.36	$ 8.94	$ 9.26	$ 8.30	$ 8.90	$ 8.93	$ 8.26	$ 9.33	$ 9.09	$ 9.07
2050	$ 9.39	$ 9.04	$ 9.45	$ 9.01	$ 9.36	$ 8.32	$ 8.99	$ 8.98	$ 8.39	$ 9.41	$ 9.18	$ 9.13

Jan-29	2029	$ 4.64	$ 0.08	$ (0.03)	$ 4.72	$ 4.61
Feb-29	2029	$ 4.67	$ 0.07	$ (0.05)	$ 4.74	$ 4.62
Mar-29	2029	$ 4.45	$ 0.01	$ (0.06)	$ 4.46	$ 4.39
Apr-29	2029	$ 4.47	$ 0.00	$ (0.11)	$ 4.47	$ 4.36
May-29	2029	$ 4.53	$ 0.03	$ (0.10)	$ 4.56	$ 4.43
Jun-29	2029	$ 4.66	$ 0.06	$ (0.07)	$ 4.72	$ 4.58
Jul-29	2029	$ 4.39	$ 0.09	$ (0.05)	$ 4.48	$ 4.34
Aug-29	2029	$ 4.42	$ 0.10	$ (0.03)	$ 4.52	$ 4.38
Sep-29	2029	$ 4.54	$ 0.05	$ (0.07)	$ 4.59	$ 4.46
Oct-29	2029	$ 4.52	$ 0.04	$ (0.10)	$ 4.57	$ 4.43
Nov-29	2029	$ 4.43	$ 0.06	$ (0.04)	$ 4.49	$ 4.39
Dec-29	2029	$ 4.63	$ 0.06	$ (0.04)	$ 4.70	$ 4.59
Jan-30	2030	$ 4.67	$ 0.08	$ (0.03)	$ 4.74	$ 4.64
Feb-30	2030	$ 4.69	$ 0.07	$ (0.04)	$ 4.76	$ 4.65
Mar-30	2030	$ 4.58	$ 0.00	$ (0.05)	$ 4.59	$ 4.53
Apr-30	2030	$ 4.55	$ (0.01)	$ (0.12)	$ 4.54	$ 4.43
May-30	2030	$ 4.58	$ 0.03	$ (0.10)	$ 4.61	$ 4.48
Jun-30	2030	$ 4.65	$ 0.07	$ (0.05)	$ 4.72	$ 4.61
Jul-30	2030	$ 4.98	$ 0.10	$ (0.02)	$ 5.09	$ 4.96
Aug-30	2030	$ 5.02	$ 0.11	$ 0.00	$ 5.13	$ 5.02
Sep-30	2030	$ 4.95	$ 0.06	$ (0.05)	$ 5.00	$ 4.89
Oct-30	2030	$ 4.72	$ 0.05	$ (0.08)	$ 4.77	$ 4.64
Nov-30	2030	$ 4.64	$ 0.06	$ (0.04)	$ 4.69	$ 4.59
Dec-30	2030	$ 4.86	$ 0.06	$ (0.04)	$ 4.93	$ 4.82
Jan-31	2031	$ 4.89	$ 0.10	$ (0.04)	$ 4.99	$ 4.85
Feb-31	2031	$ 4.92	$ 0.09	$ (0.05)	$ 5.01	$ 4.87
Mar-31	2031	$ 4.83	$ 0.02	$ (0.06)	$ 4.84	$ 4.76
Apr-31	2031	$ 4.78	$ 0.00	$ (0.13)	$ 4.78	$ 4.66
May-31	2031	$ 4.81	$ 0.06	$ (0.10)	$ 4.87	$ 4.71
Jun-31	2031	$ 4.88	$ 0.08	$ (0.06)	$ 4.96	$ 4.82
Jul-31	2031	$ 5.21	$ 0.12	$ (0.03)	$ 5.33	$ 5.17
Aug-31	2031	$ 5.26	$ 0.14	$ (0.04)	$ 5.40	$ 5.22
Sep-31	2031	$ 5.16	$ 0.09	$ (0.05)	$ 5.25	$ 5.11
Oct-31	2031	$ 5.00	$ 0.08	$ (0.08)	$ 5.09	$ 4.92
Nov-31	2031	$ 5.07	$ 0.07	$ (0.06)	$ 5.14	$ 5.01
Dec-31	2031	$ 5.25	$ 0.08	$ (0.05)	$ 5.33	$ 5.20
Jan-32	2032	$ 5.28	$ 0.11	$ (0.05)	$ 5.39	$ 5.23
Feb-32	2032	$ 5.31	$ 0.08	$ (0.06)	$ 5.39	$ 5.25
Mar-32	2032	$ 5.29	$ 0.05	$ (0.07)	$ 5.34	$ 5.22
Apr-32	2032	$ 5.13	$ 0.03	$ (0.13)	$ 5.15	$ 5.00
May-32	2032	$ 5.16	$ 0.07	$ (0.10)	$ 5.22	$ 5.05
Jun-32	2032	$ 5.19	$ 0.09	$ (0.06)	$ 5.28	$ 5.13
Jul-32	2032	$ 5.33	$ 0.14	$ (0.04)	$ 5.47	$ 5.29
Aug-32	2032	$ 5.38	$ 0.16	$ (0.03)	$ 5.54	$ 5.35
Sep-32	2032	$ 5.30	$ 0.09	$ (0.05)	$ 5.39	$ 5.25
Oct-32	2032	$ 5.27	$ 0.09	$ (0.08)	$ 5.35	$ 5.19
Nov-32	2032	$ 5.39	$ 0.05	$ (0.11)	$ 5.44	$ 5.28
Dec-32	2032	$ 5.40	$ 0.07	$ (0.08)	$ 5.47	$ 5.33
Jan-33	2033	$ 5.14	$ 0.09	$ (0.06)	$ 5.23	$ 5.07
Feb-33	2033	$ 5.17	$ 0.09	$ (0.07)	$ 5.26	$ 5.10
Mar-33	2033	$ 5.12	$ 0.02	$ (0.10)	$ 5.14	$ 5.02
Apr-33	2033	$ 5.12	$ 0.02	$ (0.14)	$ 5.14	$ 4.98
May-33	2033	$ 5.15	$ 0.03	$ (0.14)	$ 5.19	$ 5.02
Jun-33	2033	$ 5.19	$ 0.08	$ (0.08)	$ 5.27	$ 5.11
Jul-33	2033	$ 5.35	$ 0.12	$ (0.04)	$ 5.47	$ 5.31
Aug-33	2033	$ 5.39	$ 0.13	$ (0.02)	$ 5.52	$ 5.37
Sep-33	2033	$ 5.32	$ 0.07	$ (0.08)	$ 5.39	$ 5.25
Oct-33	2033	$ 5.27	$ 0.05	$ (0.12)	$ 5.33	$ 5.15
Nov-33	2033	$ 5.43	$ 0.03	$ (0.11)	$ 5.46	$ 5.32
Dec-33	2033	$ 5.62	$ 0.05	$ (0.08)	$ 5.67	$ 5.54
Jan-34	2034	$ 5.66	$ 0.08	$ (0.06)	$ 5.74	$ 5.59
Feb-34	2034	$ 5.49	$ 0.06	$ (0.07)	$ 5.55	$ 5.42
Mar-34	2034	$ 5.34	$ (0.01)	$ (0.11)	$ 5.33	$ 5.23
Apr-34	2034	$ 5.27	$ 0.01	$ (0.13)	$ 5.28	$ 5.14
May-34	2034	$ 5.31	$ 0.04	$ (0.13)	$ 5.35	$ 5.17
Jun-34	2034	$ 5.34	$ 0.08	$ (0.08)	$ 5.43	$ 5.26
Jul-34	2034	$ 5.60	$ 0.12	$ (0.04)	$ 5.72	$ 5.55
Aug-34	2034	$ 5.64	$ 0.14	$ (0.02)	$ 5.78	$ 5.62
Sep-34	2034	$ 5.53	$ 0.07	$ (0.08)	$ 5.61	$ 5.46
Oct-34	2034	$ 5.40	$ 0.05	$ (0.13)	$ 5.45	$ 5.27
Nov-34	2034	$ 5.63	$ 0.03	$ (0.11)	$ 5.67	$ 5.52
Dec-34	2034	$ 5.83	$ 0.06	$ (0.07)	$ 5.88	$ 5.76
Jan-35	2035	$ 5.87	$ 0.09	$ (0.06)	$ 5.96	$ 5.81
Feb-35	2035	$ 5.90	$ 0.06	$ (0.07)	$ 5.96	$ 5.83
Mar-35	2035	$ 5.72	$ 0.02	$ (0.11)	$ 5.74	$ 5.61
Apr-35	2035	$ 5.46	$ 0.02	$ (0.14)	$ 5.49	$ 5.32
May-35	2035	$ 5.50	$ 0.05	$ (0.13)	$ 5.54	$ 5.36
Jun-35	2035	$ 5.53	$ 0.09	$ (0.08)	$ 5.62	$ 5.45
Jul-35	2035	$ 5.82	$ 0.13	$ (0.04)	$ 5.95	$ 5.78
Aug-35	2035	$ 5.85	$ 0.15	$ (0.03)	$ 6.00	$ 5.83
Sep-35	2035	$ 5.76	$ 0.07	$ (0.08)	$ 5.83	$ 5.68
Oct-35	2035	$ 5.61	$ 0.05	$ (0.13)	$ 5.66	$ 5.48
Nov-35	2035	$ 5.66	$ 0.03	$ (0.11)	$ 5.69	$ 5.55
Dec-35	2035	$ 5.81	$ 0.06	$ (0.07)	$ 5.87	$ 5.74
Jan-36	2036	$ 5.85	$ 0.09	$ (0.06)	$ 5.94	$ 5.79
Feb-36	2036	$ 5.88	$ 0.03	$ (0.08)	$ 5.91	$ 5.80
Mar-36	2036	$ 5.78	$ 0.02	$ (0.11)	$ 5.80	$ 5.67
Apr-36	2036	$ 5.55	$ 0.02	$ (0.14)	$ 5.57	$ 5.41
May-36	2036	$ 5.59	$ 0.05	$ (0.13)	$ 5.64	$ 5.45
Jun-36	2036	$ 5.63	$ 0.10	$ (0.08)	$ 5.72	$ 5.54
Jul-36	2036	$ 5.79	$ 0.13	$ (0.04)	$ 5.93	$ 5.75
Aug-36	2036	$ 5.83	$ 0.15	$ (0.03)	$ 5.98	$ 5.80
Sep-36	2036	$ 5.81	$ 0.09	$ (0.07)	$ 5.90	$ 5.73
Oct-36	2036	$ 5.77	$ 0.08	$ (0.12)	$ 5.84	$ 5.64
Nov-36	2036	$ 5.85	$ 0.05	$ (0.11)	$ 5.90	$ 5.74
Dec-36	2036	$ 6.11	$ 0.06	$ (0.07)	$ 6.18	$ 6.04
Jan-37	2037	$ 6.16	$ 0.11	$ (0.06)	$ 6.27	$ 6.10
Feb-37	2037	$ 6.20	$ 0.08	$ (0.07)	$ 6.28	$ 6.13
Mar-37	2037	$ 6.11	$ 0.02	$ (0.11)	$ 6.13	$ 5.99
Apr-37	2037	$ 5.93	$ 0.02	$ (0.14)	$ 5.95	$ 5.79
May-37	2037	$ 5.97	$ 0.05	$ (0.14)	$ 6.02	$ 5.83
Jun-37	2037	$ 6.03	$ 0.11	$ (0.08)	$ 6.14	$ 5.95
Jul-37	2037	$ 6.29	$ 0.15	$ (0.04)	$ 6.43	$ 6.25
Aug-37	2037	$ 6.33	$ 0.15	$ (0.03)	$ 6.47	$ 6.30
Sep-37	2037	$ 6.24	$ 0.10	$ (0.07)	$ 6.34	$ 6.17
Oct-37	2037	$ 6.17	$ 0.07	$ (0.14)	$ 6.25	$ 6.04
Nov-37	2037	$ 6.25	$ 0.05	$ (0.12)	$ 6.30	$ 6.13
Dec-37	2037	$ 6.51	$ 0.08	$ (0.07)	$ 6.59	$ 6.44
Jan-38	2038	$ 6.55	$ 0.11	$ (0.06)	$ 6.66	$ 6.49
Feb-38	2038	$ 6.59	$ 0.09	$ (0.08)	$ 6.68	$ 6.52
Mar-38	2038	$ 6.49	$ 0.03	$ (0.12)	$ 6.52	$ 6.37
Apr-38	2038	$ 6.27	$ 0.04	$ (0.14)	$ 6.31	$ 6.13
May-38	2038	$ 6.31	$ 0.06	$ (0.14)	$ 6.37	$ 6.17
Jun-38	2038	$ 6.35	$ 0.12	$ (0.08)	$ 6.47	$ 6.27
Jul-38	2038	$ 6.53	$ 0.15	$ (0.04)	$ 6.69	$ 6.49
Aug-38	2038	$ 6.58	$ 0.14	$ (0.04)	$ 6.73	$ 6.54
Sep-38	2038	$ 6.43	$ 0.10	$ (0.07)	$ 6.54	$ 6.36
Oct-38	2038	$ 6.37	$ 0.06	$ (0.14)	$ 6.43	$ 6.23
Nov-38	2038	$ 6.47	$ 0.07	$ (0.12)	$ 6.55	$ 6.35
Dec-38	2038	$ 6.70	$ 0.10	$ (0.07)	$ 6.80	$ 6.63
Jan-39	2039	$ 6.75	$ 0.12	$ (0.06)	$ 6.87	$ 6.68
Feb-39	2039	$ 6.79	$ 0.10	$ (0.07)	$ 6.89	$ 6.72
Mar-39	2039	$ 6.63	$ 0.03	$ (0.12)	$ 6.66	$ 6.51
Apr-39	2039	$ 6.20	$ 0.04	$ (0.15)	$ 6.24	$ 6.05
May-39	2039	$ 6.24	$ 0.05	$ (0.15)	$ 6.29	$ 6.09
Jun-39	2039	$ 6.28	$ 0.11	$ (0.09)	$ 6.39	$ 6.19
Jul-39	2039	$ 6.34	$ 0.13	$ (0.06)	$ 6.47	$ 6.28
Aug-39	2039	$ 6.89	$ 0.15	$ (0.05)	$ 7.04	$ 6.84

Sep-39	2039	$ 6.86	$ 0.09	$ (0.08)	$ 6.95	$ 6.78
Oct-39	2039	$ 6.60	$ 0.08	$ (0.14)	$ 6.69	$ 6.46
Nov-39	2039	$ 6.68	$ 0.06	$ (0.12)	$ 6.74	$ 6.56
Dec-39	2039	$ 6.88	$ 0.09	$ (0.09)	$ 6.97	$ 6.80
Jan-40	2040	$ 6.93	$ 0.10	$ (0.07)	$ 7.02	$ 6.86
Feb-40	2040	$ 6.96	$ 0.06	$ (0.11)	$ 7.02	$ 6.85
Mar-40	2040	$ 6.85	$ 0.03	$ (0.12)	$ 6.88	$ 6.72
Apr-40	2040	$ 6.62	$ 0.01	$ (0.15)	$ 6.63	$ 6.47
May-40	2040	$ 6.66	$ 0.06	$ (0.15)	$ 6.72	$ 6.51
Jun-40	2040	$ 6.72	$ 0.11	$ (0.10)	$ 6.82	$ 6.62
Jul-40	2040	$ 6.96	$ 0.14	$ (0.05)	$ 7.11	$ 6.91
Aug-40	2040	$ 7.01	$ 0.15	$ (0.04)	$ 7.16	$ 6.97
Sep-40	2040	$ 6.99	$ 0.10	$ (0.08)	$ 7.09	$ 6.91
Oct-40	2040	$ 6.83	$ 0.09	$ (0.15)	$ 6.92	$ 6.68
Nov-40	2040	$ 6.91	$ 0.07	$ (0.13)	$ 6.98	$ 6.78
Dec-40	2040	$ 7.14	$ 0.11	$ (0.07)	$ 7.25	$ 7.07
Jan-41	2041	$ 7.19	$ 0.11	$ (0.06)	$ 7.30	$ 7.12
Feb-41	2041	$ 7.21	$ 0.08	$ (0.09)	$ 7.30	$ 7.12
Mar-41	2041	$ 7.06	$ 0.04	$ (0.13)	$ 7.10	$ 6.93
Apr-41	2041	$ 6.80	$ 0.05	$ (0.15)	$ 6.85	$ 6.65
May-41	2041	$ 6.84	$ 0.06	$ (0.15)	$ 6.90	$ 6.69
Jun-41	2041	$ 6.92	$ 0.12	$ (0.09)	$ 7.04	$ 6.83
Jul-41	2041	$ 7.22	$ 0.17	$ (0.04)	$ 7.39	$ 7.18
Aug-41	2041	$ 7.26	$ 0.16	$ (0.03)	$ 7.42	$ 7.24
Sep-41	2041	$ 7.27	$ 0.12	$ (0.08)	$ 7.38	$ 7.19
Oct-41	2041	$ 7.03	$ 0.06	$ (0.16)	$ 7.09	$ 6.87
Nov-41	2041	$ 7.16	$ 0.08	$ (0.13)	$ 7.23	$ 7.03
Dec-41	2041	$ 7.36	$ 0.13	$ (0.06)	$ 7.49	$ 7.30
Jan-42	2042	$ 7.40	$ 0.12	$ (0.05)	$ 7.52	$ 7.35
Feb-42	2042	$ 7.43	$ 0.09	$ (0.09)	$ 7.52	$ 7.35
Mar-42	2042	$ 7.28	$ 0.03	$ (0.14)	$ 7.31	$ 7.14
Apr-42	2042	$ 7.07	$ 0.05	$ (0.16)	$ 7.12	$ 6.91
May-42	2042	$ 7.12	$ 0.06	$ (0.16)	$ 7.18	$ 6.96
Jun-42	2042	$ 7.18	$ 0.13	$ (0.08)	$ 7.32	$ 7.10
Jul-42	2042	$ 7.55	$ 0.17	$ (0.05)	$ 7.72	$ 7.51
Aug-42	2042	$ 7.60	$ 0.17	$ (0.01)	$ 7.77	$ 7.59
Sep-42	2042	$ 7.57	$ 0.12	$ (0.07)	$ 7.69	$ 7.50
Oct-42	2042	$ 7.31	$ 0.08	$ (0.15)	$ 7.39	$ 7.16
Nov-42	2042	$ 7.35	$ 0.07	$ (0.14)	$ 7.43	$ 7.22
Dec-42	2042	$ 7.59	$ 0.10	$ (0.13)	$ 7.69	$ 7.46
Jan-43	2043	$ 7.63	$ 0.10	$ (0.10)	$ 7.74	$ 7.53
Feb-43	2043	$ 7.66	$ 0.06	$ (0.15)	$ 7.71	$ 7.50
Mar-43	2043	$ 7.51	$ 0.04	$ (0.14)	$ 7.54	$ 7.37
Apr-43	2043	$ 7.25	$ 0.03	$ (0.19)	$ 7.27	$ 7.05
May-43	2043	$ 7.29	$ 0.05	$ (0.19)	$ 7.34	$ 7.10
Jun-43	2043	$ 7.35	$ 0.11	$ (0.16)	$ 7.45	$ 7.19
Jul-43	2043	$ 7.70	$ 0.16	$ (0.08)	$ 7.87	$ 7.63
Aug-43	2043	$ 7.75	$ 0.16	$ (0.06)	$ 7.91	$ 7.69
Sep-43	2043	$ 7.78	$ 0.09	$ (0.17)	$ 7.87	$ 7.61
Oct-43	2043	$ 7.49	$ 0.08	$ (0.17)	$ 7.56	$ 7.32
Nov-43	2043	$ 7.55	$ 0.07	$ (0.16)	$ 7.62	$ 7.39
Dec-43	2043	$ 7.80	$ 0.10	$ (0.14)	$ 7.89	$ 7.65
Jan-44	2044	$ 7.84	$ 0.10	$ (0.12)	$ 7.94	$ 7.72
Feb-44	2044	$ 7.88	$ 0.06	$ (0.16)	$ 7.94	$ 7.72
Mar-44	2044	$ 7.71	$ 0.03	$ (0.16)	$ 7.74	$ 7.55
Apr-44	2044	$ 7.57	$ 0.03	$ (0.21)	$ 7.60	$ 7.36
May-44	2044	$ 7.62	$ 0.04	$ (0.22)	$ 7.65	$ 7.40
Jun-44	2044	$ 7.66	$ 0.11	$ (0.17)	$ 7.77	$ 7.49
Jul-44	2044	$ 8.01	$ 0.16	$ (0.08)	$ 8.17	$ 7.93
Aug-44	2044	$ 8.06	$ 0.16	$ (0.06)	$ 8.22	$ 8.00
Sep-44	2044	$ 8.05	$ 0.08	$ (0.19)	$ 8.13	$ 7.85
Oct-44	2044	$ 7.84	$ 0.05	$ (0.22)	$ 7.89	$ 7.63
Nov-44	2044	$ 7.97	$ 0.06	$ (0.18)	$ 8.03	$ 7.78
Dec-44	2044	$ 8.21	$ 0.10	$ (0.15)	$ 8.31	$ 8.06
Jan-45	2045	$ 8.26	$ 0.11	$ (0.12)	$ 8.37	$ 8.14
Feb-45	2045	$ 8.31	$ 0.06	$ (0.17)	$ 8.37	$ 8.14
Mar-45	2045	$ 8.18	$ 0.03	$ (0.16)	$ 8.21	$ 8.01
Apr-45	2045	$ 7.99	$ 0.03	$ (0.23)	$ 8.01	$ 7.76
May-45	2045	$ 8.03	$ 0.04	$ (0.22)	$ 8.07	$ 7.81
Jun-45	2045	$ 8.08	$ 0.11	$ (0.17)	$ 8.19	$ 7.91
Jul-45	2045	$ 8.45	$ 0.16	$ (0.09)	$ 8.61	$ 8.36
Aug-45	2045	$ 8.51	$ 0.17	$ (0.06)	$ 8.68	$ 8.44
Sep-45	2045	$ 8.52	$ 0.08	$ (0.20)	$ 8.61	$ 8.32
Oct-45	2045	$ 8.27	$ 0.06	$ (0.22)	$ 8.33	$ 8.05
Nov-45	2045	$ 8.40	$ 0.06	$ (0.19)	$ 8.46	$ 8.21
Dec-45	2045	$ 8.65	$ 0.10	$ (0.16)	$ 8.75	$ 8.49
Jan-46	2046	$ 8.70	$ 0.11	$ (0.11)	$ 8.82	$ 8.59
Feb-46	2046	$ 8.73	$ 0.06	$ (0.17)	$ 8.79	$ 8.56
Mar-46	2046	$ 8.53	$ 0.02	$ (0.19)	$ 8.55	$ 8.34
Apr-46	2046	$ 8.29	$ 0.02	$ (0.24)	$ 8.31	$ 8.05
May-46	2046	$ 8.32	$ 0.04	$ (0.23)	$ 8.37	$ 8.10
Jun-46	2046	$ 8.37	$ 0.11	$ (0.18)	$ 8.48	$ 8.20
Jul-46	2046	$ 8.80	$ 0.16	$ (0.10)	$ 8.96	$ 8.70
Aug-46	2046	$ 8.86	$ 0.18	$ (0.06)	$ 9.03	$ 8.80
Sep-46	2046	$ 8.83	$ 0.08	$ (0.20)	$ 8.91	$ 8.63
Oct-46	2046	$ 8.55	$ 0.06	$ (0.22)	$ 8.61	$ 8.33
Nov-46	2046	$ 8.63	$ 0.06	$ (0.19)	$ 8.69	$ 8.43
Dec-46	2046	$ 8.85	$ 0.10	$ (0.15)	$ 8.96	$ 8.70
Jan-47	2047	$ 8.91	$ 0.13	$ (0.10)	$ 9.03	$ 8.80
Feb-47	2047	$ 8.92	$ 0.06	$ (0.19)	$ 8.98	$ 8.73
Mar-47	2047	$ 8.60	$ 0.02	$ (0.21)	$ 8.62	$ 8.39
Apr-47	2047	$ 8.40	$ 0.02	$ (0.25)	$ 8.43	$ 8.15
May-47	2047	$ 8.44	$ 0.04	$ (0.24)	$ 8.48	$ 8.19
Jun-47	2047	$ 8.49	$ 0.12	$ (0.15)	$ 8.61	$ 8.33
Jul-47	2047	$ 8.90	$ 0.16	$ (0.09)	$ 9.07	$ 8.81
Aug-47	2047	$ 8.96	$ 0.18	$ (0.05)	$ 9.14	$ 8.90
Sep-47	2047	$ 8.95	$ 0.09	$ (0.17)	$ 9.04	$ 8.79
Oct-47	2047	$ 8.79	$ 0.05	$ (0.23)	$ 8.85	$ 8.56
Nov-47	2047	$ 8.87	$ 0.05	$ (0.23)	$ 8.92	$ 8.64
Dec-47	2047	$ 8.91	$ 0.09	$ (0.18)	$ 9.00	$ 8.73
Jan-48	2048	$ 8.96	$ 0.11	$ (0.12)	$ 9.07	$ 8.84
Feb-48	2048	$ 9.00	$ 0.04	$ (0.21)	$ 9.04	$ 8.79
Mar-48	2048	$ 8.80	$ 0.01	$ (0.23)	$ 8.81	$ 8.57
Apr-48	2048	$ 8.67	$ 0.02	$ (0.26)	$ 8.69	$ 8.41
May-48	2048	$ 8.72	$ 0.03	$ (0.25)	$ 8.75	$ 8.47
Jun-48	2048	$ 8.81	$ 0.10	$ (0.19)	$ 8.91	$ 8.63
Jul-48	2048	$ 9.34	$ 0.14	$ (0.13)	$ 9.48	$ 9.22
Aug-48	2048	$ 9.41	$ 0.18	$ (0.06)	$ 9.59	$ 9.35
Sep-48	2048	$ 9.43	$ 0.07	$ (0.20)	$ 9.50	$ 9.23
Oct-48	2048	$ 9.04	$ 0.06	$ (0.25)	$ 9.10	$ 8.79
Nov-48	2048	$ 9.18	$ 0.05	$ (0.24)	$ 9.23	$ 8.94
Dec-48	2048	$ 9.45	$ 0.06	$ (0.22)	$ 9.51	$ 9.23
Jan-49	2049	$ 9.50	$ 0.08	$ (0.18)	$ 9.59	$ 9.32
Feb-49	2049	$ 9.51	$ 0.03	$ (0.23)	$ 9.54	$ 9.28
Mar-49	2049	$ 9.45	$ 0.01	$ (0.23)	$ 9.46	$ 9.22
Apr-49	2049	$ 9.35	$ 0.02	$ (0.26)	$ 9.36	$ 9.09
May-49	2049	$ 8.99	$ 0.03	$ (0.25)	$ 9.02	$ 8.74
Jun-49	2049	$ 9.04	$ 0.09	$ (0.21)	$ 9.13	$ 8.83
Jul-49	2049	$ 9.26	$ 0.12	$ (0.15)	$ 9.38	$ 9.11
Aug-49	2049	$ 9.31	$ 0.15	$ (0.13)	$ 9.46	$ 9.18
Sep-49	2049	$ 9.14	$ 0.07	$ (0.19)	$ 9.21	$ 8.95
Oct-49	2049	$ 8.98	$ 0.06	$ (0.24)	$ 9.03	$ 8.73
Nov-49	2049	$ 9.32	$ 0.05	$ (0.24)	$ 9.37	$ 9.08
Dec-49	2049	$ 9.70	$ 0.06	$ (0.22)	$ 9.76	$ 9.49
Jan-50	2050	$ 9.76	$ 0.09	$ (0.17)	$ 9.84	$ 9.58
Feb-50	2050	$ 9.78	$ 0.03	$ (0.23)	$ 9.82	$ 9.55
Mar-50	2050	$ 9.49	$ 0.01	$ (0.23)	$ 9.49	$ 9.26
Apr-50	2050	$ 9.02	$ 0.02	$ (0.26)	$ 9.04	$ 8.76

May-50	2050	$ 9.06	$ 0.03	$ (0.25)	$ 9.09	$ 8.81
Jun-50	2050	$ 9.11	$ 0.10	$ (0.20)	$ 9.20	$ 8.91
Jul-50	2050	$ 9.39	$ 0.12	$ (0.15)	$ 9.52	$ 9.24
Aug-50	2050	$ 9.45	$ 0.16	$ (0.12)	$ 9.61	$ 9.33
Sep-50	2050	$ 9.42	$ 0.07	$ (0.19)	$ 9.50	$ 9.23
Oct-50	2050	$ 9.12	$ 0.06	$ (0.23)	$ 9.18	$ 8.89
Nov-50	2050	$ 9.37	$ 0.05	$ (0.24)	$ 9.42	$ 9.13
Dec-50	2050	$ 9.68	$ 0.07	$ (0.21)	$ 9.75	$ 9.47

FL June 2019 FOF

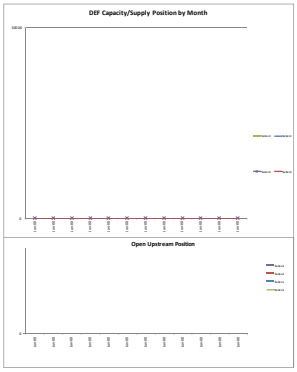
Natural Gas Report

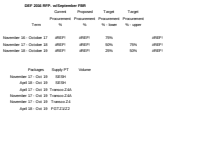
MMBtu = Dt

MMBtu (000)

Plant	Unit	2019	2020	2021	2022	2023
ANCLOTE	1	5,725,519.967	5,057,647.146	6,204,051.752	8,448,913.808	6,721,040.467
ANCLOTE	2	3,993,127.573	3,120,861.778	4,906,149.624	2,223,286.471	1,894,315.903
ANCLOTE	*Total*	***9,718,647.540***	***8,178,508.925***	***11,110,201.376***	***10,672,200.279***	***8,615,356.370***
AVON PK	P 1	.000	.000	.000	.000	.000
AVON PK	*Total*	***.000***	***.000***	***.000***	***.000***	***.000***
BARTOW	CC1	23,157,747.439	55,794,749.663	55,348,300.707	55,109,823.646	54,944,546.049
BARTOW	P 2	3,892.042	7,025.668	5,986.380	6,468.973	6,811.767
BARTOW	P 4	5,830.031	8,417.662	8,363.979	9,641.229	6,299.716
BARTOW	*Total*	***23,167,469.511***	***55,810,192.992***	***55,362,651.065***	***55,125,933.849***	***54,957,657.532***
Citrus CC #1	1	20,678,864.852	41,415,942.741	41,309,760.894	41,496,989.884	41,471,709.073
Citrus CC #1	*Total*	***20,678,864.852***	***41,415,942.741***	***41,309,760.894***	***41,496,989.884***	***41,471,709.073***
Citrus CC #2	1	20,526,481.161	41,341,557.256	41,574,498.947	41,336,340.197	41,514,692.387
Citrus CC #2	*Total*	***20,526,481.161***	***41,341,557.256***	***41,574,498.947***	***41,336,340.197***	***41,514,692.387***
DEBARY	P 7	269,390.385	360,105.282	374,198.701	475,267.146	470,704.634
DEBARY	P 8	160,350.261	190,118.447	186,923.627	234,503.817	191,787.853
DEBARY	P 9	328,047.299	441,791.553	545,985.617	582,987.413	614,755.194
DEBARY	*Total*	***757,787.945***	***992,015.282***	***1,107,107.946***	***1,292,758.376***	***1,277,247.681***
HIGGINS	P 1	0.000	0.000	0.000	0.000	0.000
HIGGINS	P 2	904.703	1,050.310	0.000	0.000	0.000
HIGGINS	P 3	4,437.949	4,049.245	0.000	0.000	0.000
HIGGINS	P 4	5,398.830	4,992.561	0.000	0.000	0.000
HIGGINS	*Total*	***10,741.481***	***10,092.116***	***.000***	***.000***	***.000***
HINES	1	12,676,475.855	22,277,822.109	21,765,706.117	23,089,199.097	22,864,999.481
HINES	2	12,179,056.870	21,090,125.016	22,047,818.960	20,563,455.713	22,347,448.592
HINES	3	11,069,071.225	23,568,446.242	20,918,240.431	23,246,826.556	23,217,632.190
HINES	4	11,820,825.918	25,341,724.876	26,883,761.652	24,859,943.901	24,564,743.041
HINES	*Total*	***47,745,429.868***	***92,278,118.243***	***91,615,527.161***	***91,759,425.267***	***92,994,823.305***
INT CITY	P 7	124,440.073	121,793.566	126,356.043	138,774.686	136,269.017
INT CITY	P 8	210,789.836	260,365.053	315,709.987	334,336.389	297,680.610
INT CITY	P 9	216,916.865	266,450.466	318,494.417	252,301.309	344,891.640
INT CITY	P10	119,334.821	125,907.311	91,750.140	145,585.394	132,809.890
INT CITY	P12	22,514.713	27,163.780	42,155.279	43,384.841	40,278.127
INT CITY	P13	62,379.893	62,027.291	44,430.899	59,687.655	52,717.012
INT CITY	P14	10,755.056	18,022.529	23,049.699	22,516.202	15,079.727
INT CITY	*Total*	***767,131.256***	***881,729.996***	***961,946.465***	***996,586.477***	***1,019,726.023***
Osprey 2017	1	12,112,151.229	13,600,566.130	11,407,637.240	11,442,740.440	11,243,453.190
Osprey 2017	*Total*	***12,112,151.229***	***13,600,566.130***	***11,407,637.240***	***11,442,740.440***	***11,243,453.190***
Osprey PPA		.000	.000	.000	.000	.000
Osprey PPA	*Total*	***.000***	***.000***	***.000***	***.000***	***.000***
Shady Hills	1	1,248,676.277	1,028,608.323	1,732,052.434	1,961,818.091	1,939,198.606
Shady Hills	2	1,301,016.042	1,060,593.146	1,888,539.527	2,213,353.854	2,043,555.050
Shady Hills	3	1,395,505.498	1,151,769.883	1,798,265.840	2,015,087.688	1,953,103.810
Shady Hills	*Total*	***3,945,197.818***	***3,240,971.351***	***5,418,857.801***	***6,190,259.633***	***5,935,857.466***
SUWANNEE	1	.000	.000	.000	.000	.000
SUWANNEE	2	.000	.000	.000	.000	.000
SUWANNEE	3	.000	.000	.000	.000	.000
SUWANNEE	P 1	123,629.808	182,701.577	234,113.811	235,450.154	237,939.708
SUWANNEE	P 3	135,848.367	223,660.381	249,518.268	283,623.349	271,915.862
SUWANNEE	*Total*	***259,478.175***	***406,361.959***	***483,632.079***	***519,073.503***	***509,855.569***
TIGERBAY	1	4,295,906.643	6,328,843.964	6,767,734.546	7,138,022.829	6,433,670.738
TIGERBAY	*Total*	***4,295,906.643***	***6,328,843.964***	***6,767,734.546***	***7,138,022.829***	***6,433,670.738***
U OF FL	P 1	1,641,841.291	2,912,322.316	3,266,074.538	3,266,700.778	3,266,039.851
U OF FL	*Total*	***1,641,841.291***	***2,912,322.316***	***3,266,074.538***	***3,266,700.778***	***3,266,039.851***
Vandolah (NSG)	1	187,362.334	221,784.676	263,300.783	352,410.271	297,840.652
Vandolah (NSG)	2	186,363.911	249,792.142	301,630.904	394,291.197	297,000.280
Vandolah (NSG)	3	190,672.401	229,393.647	317,779.248	372,806.384	316,043.236
Vandolah (NSG)	4	223,240.821	294,660.535	320,464.557	382,482.946	338,576.134
Vandolah (NSG)	*Total*	***787,639.466***	***995,631.000***	***1,203,175.492***	***1,501,990.797***	***1,249,460.302***
TOTAL		**146,414,768.235**	**268,392,854.271**	**271,588,805.550**	**272,739,022.309**	**270,489,549.487**

DEF August 2019 FSP (published 8/19/19) | 2019 Spring Generation and Fuel Forecast (published 7/30/19)





DEP GAS TRANSPORTATION SCHEDULES

updated 6/28/19

FT CAPACITY

(MMBTU/d/D)

FT DEMAND RATES

($/MMBTU/d/M)

Non-Executed - Subject to Change Exhibits

| | | |

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	Cypress MMBTU Variable Cost	Cypress Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.046)	$ 3.064	$0.12	3.19
Feb	2019	2.690	$ (0.019)	$ 2.671	$0.12	2.79
Mar	2019	2.950	$ (0.003)	$ 2.947	$0.12	3.07
Apr	2019	2.650	$ (0.001)	$ 2.649	$0.12	2.77
May	2019	2.640	$ 0.005	$ 2.645	$0.12	2.76
Jun	2019	2.400	$ 0.037	$ 2.437	$0.12	2.55
Jul	2019	2.370	$ 0.048	$ 2.418	$0.12	2.53
Aug	2019	2.220	$ 0.056	$ 2.276	$0.11	2.39
Sep	2019	2.560	$ 0.016	$ 2.576	$0.12	2.69
Oct	2019	2.743	$ 0.010	$ 2.753	$0.12	2.87
Nov	2019	2.303	$ 0.012	$ 2.315	$0.11	2.43
Dec	2019	2.495	$ 0.023	$ 2.518	$0.12	2.63
Jan	2020	2.612	$ 0.035	$ 2.647	$0.12	2.77
Feb	2020	2.575	$ 0.024	$ 2.599	$0.12	2.72
Mar	2020	2.462	$ (0.020)	$ 2.442	$0.12	2.56
Apr	2020	2.247	$ (0.019)	$ 2.228	$0.11	2.34
May	2020	2.234	$ 0.005	$ 2.239	$0.11	2.35
Jun	2020	2.278	$ 0.026	$ 2.304	$0.11	2.42
Jul	2020	2.326	$ 0.048	$ 2.374	$0.11	2.49
Aug	2020	2.335	$ 0.055	$ 2.390	$0.11	2.50
Sep	2020	2.318	$ 0.012	$ 2.330	$0.11	2.44
Oct	2020	2.344	$ 0.016	$ 2.360	$0.11	2.47
Nov	2020	2.409	$ 0.025	$ 2.434	$0.12	2.55
Dec	2020	2.578	$ 0.034	$ 2.612	$0.12	2.73
Jan	2021	2.700	$ 0.038	$ 2.738	$0.12	2.86
Feb	2021	2.661	$ 0.033	$ 2.694	$0.12	2.81
Mar	2021	2.548	$ (0.015)	$ 2.533	$0.12	2.65
Apr	2021	2.284	$ (0.021)	$ 2.263	$0.11	2.38
May	2021	2.260	$ 0.005	$ 2.265	$0.11	2.38
Jun	2021	2.294	$ 0.025	$ 2.319	$0.11	2.43
Jul	2021	2.332	$ 0.047	$ 2.379	$0.11	2.49
Aug	2021	2.339	$ 0.058	$ 2.397	$0.11	2.51
Sep	2021	2.328	$ 0.011	$ 2.339	$0.11	2.45
Oct	2021	2.354	$ 0.018	$ 2.372	$0.11	2.49
Nov	2021	2.424	$ 0.027	$ 2.451	$0.12	2.57
Dec	2021	2.603	$ 0.038	$ 2.641	$0.12	2.76
Jan	2022	2.729	$ 0.041	$ 2.770	$0.12	2.89
Feb	2022	2.702	$ 0.036	$ 2.738	$0.12	2.86
Mar	2022	2.595	$ (0.013)	$ 2.582	$0.12	2.70
Apr	2022	2.340	$ (0.016)	$ 2.324	$0.11	2.44
May	2022	2.324	$ 0.007	$ 2.331	$0.11	2.45
Jun	2022	2.359	$ 0.034	$ 2.393	$0.11	2.51
Jul	2022	2.399	$ 0.059	$ 2.458	$0.12	2.57
Aug	2022	2.411	$ 0.066	$ 2.477	$0.12	2.59
Sep	2022	2.404	$ 0.021	$ 2.425	$0.12	2.54
Oct	2022	2.430	$ 0.024	$ 2.454	$0.12	2.57
Nov	2022	2.492	$ 0.034	$ 2.526	$0.12	2.64
Dec	2022	2.674	$ 0.044	$ 2.718	$0.12	2.84
Jan	2023	2.799	$ 0.052	$ 2.851	$0.12	2.97
Feb	2023	2.767	$ 0.047	$ 2.814	$0.12	2.93
Mar	2023	2.656	$ (0.003)	$ 2.653	$0.12	2.77
Apr	2023	2.401	$ (0.008)	$ 2.393	$0.11	2.51
May	2023	2.385	$ 0.016	$ 2.401	$0.11	2.52
Jun	2023	2.426	$ 0.042	$ 2.468	$0.12	2.58
Jul	2023	2.466	$ 0.068	$ 2.534	$0.12	2.65
Aug	2023	2.481	$ 0.076	$ 2.557	$0.12	2.67
Sep	2023	2.476	$ 0.029	$ 2.505	$0.12	2.62
Oct	2023	2.505	$ 0.030	$ 2.535	$0.12	2.65
Nov	2023	2.580	$ 0.037	$ 2.617	$0.12	2.73
Dec	2023	2.760	$ 0.053	$ 2.813	$0.12	2.93
Jan	2024	2.889	$ 0.058	$ 2.947	$0.12	3.07
Feb	2024	2.866	$ 0.050	$ 2.915	$0.12	3.04
Mar	2024	2.760	$ (0.002)	$ 2.758	$0.12	2.88
Apr	2024	2.534	$ (0.007)	$ 2.527	$0.12	2.64
May	2024	2.531	$ 0.017	$ 2.548	$0.12	2.66
Jun	2024	2.573	$ 0.046	$ 2.619	$0.12	2.74
Jul	2024	2.623	$ 0.077	$ 2.700	$0.12	2.82
Aug	2024	2.644	$ 0.077	$ 2.722	$0.12	2.84
Sep	2024	2.646	$ 0.047	$ 2.693	$0.12	2.81
Oct	2024	2.672	$ 0.040	$ 2.713	$0.12	2.83
Nov	2024	2.758	$ 0.044	$ 2.802	$0.12	2.92
Dec	2024	2.940	$ 0.056	$ 2.996	$0.12	3.12
Jan	2025	3.054	$ 0.061	$ 3.115	$0.12	3.24
Feb	2025	3.048	$ 0.055	$ 3.103	$0.12	3.23
Mar	2025	2.970	$ (0.001)	$ 2.969	$0.12	3.09
Apr	2025	2.799	$ (0.011)	$ 2.789	$0.12	2.91
May	2025	2.811	$ 0.016	$ 2.826	$0.12	2.95
Jun	2025	2.854	$ 0.054	$ 2.908	$0.12	3.03
Jul	2025	2.948	$ 0.078	$ 3.027	$0.12	3.15
Aug	2025	2.980	$ 0.078	$ 3.058	$0.12	3.18
Sep	2025	2.883	$ 0.045	$ 2.928	$0.12	3.05
Oct	2025	2.903	$ 0.035	$ 2.938	$0.12	3.06
Nov	2025	2.990	$ 0.036	$ 3.026	$0.12	3.15
Dec	2025	3.163	$ 0.051	$ 3.214	$0.13	3.34
Jan	2026	3.255	$ 0.057	$ 3.311	$0.13	3.44
Feb	2026	3.255	$ 0.053	$ 3.308	$0.13	3.43
Mar	2026	3.176	$ (0.003)	$ 3.172	$0.13	3.30
Apr	2026	3.042	$ (0.001)	$ 3.041	$0.12	3.16
May	2026	3.061	$ 0.022	$ 3.083	$0.12	3.21
Jun	2026	3.116	$ 0.053	$ 3.169	$0.13	3.29
Jul	2026	3.276	$ 0.077	$ 3.353	$0.13	3.48
Aug	2026	3.318	$ 0.078	$ 3.396	$0.13	3.52
Sep	2026	3.252	$ 0.041	$ 3.293	$0.13	3.42
Oct	2026	3.247	$ 0.034	$ 3.280	$0.13	3.41
Nov	2026	3.322	$ 0.042	$ 3.364	$0.13	3.49

FGT + SONAT (Cypress)			
Current Yr	2019	√	DJ 10/11
Fuel Retention	1.29%		
100%-B	98.71%		
Total Variable	0.0836		
Esc%	100.00%	√	DJ 10/11

FGT Cypress			
Fuel Retention	0.75%	√	DJ 10/11
Usage Rate	0.0156	√	DJ 10/11
ACA	0.0013	√	DJ 10/11
UFS	0.0364	√	DJ 10/11
FGT Cypress Variable	0.0533		

SONAT Cypress			
Current Yr	2019	√	
Fuel Retention	0.54%	√	DJ 10/11
100%-B	99.46%		
Total Variable	0.0303		DJ 10/11
Esc%	2.50%	√	DJ 10/11
Variable			
Usage Rate	0.0290	√	DJ 10/11
ACA	0.0013	√	DJ 10/11
SG Surcharge	0.0000	√	DJ 10/11
SONAT Cypress Variable	0.0303		

Dec	2026	3.506	$ 0.054	$	3.559	$0.13	3.69
Jan	2027	3.583	$ 0.062	$	3.645	$0.13	3.78
Feb	2027	3.604	$ 0.057	$	3.661	$0.13	3.79
Mar	2027	3.551	$ (0.002)	$	3.549	$0.13	3.68
Apr	2027	3.396	$ (0.002)	$	3.394	$0.13	3.52
May	2027	3.424	$ 0.021	$	3.445	$0.13	3.57
Jun	2027	3.498	$ 0.051	$	3.549	$0.13	3.68
Jul	2027	3.731	$ 0.079	$	3.809	$0.13	3.94
Aug	2027	3.778	$ 0.082	$	3.860	$0.13	3.99
Sep	2027	3.768	$ 0.043	$	3.812	$0.13	3.95
Oct	2027	3.651	$ 0.038	$	3.690	$0.13	3.82
Nov	2027	3.730	$ 0.043	$	3.773	$0.13	3.91
Dec	2027	3.930	$ 0.054	$	3.984	$0.14	4.12
Jan	2028	3.993	$ 0.063	$	4.056	$0.14	4.19
Feb	2028	4.025	$ 0.047	$	4.072	$0.14	4.21
Mar	2028	3.948	$ (0.002)	$	3.946	$0.14	4.08
Apr	2028	3.907	$ (0.006)	$	3.900	$0.13	4.03
May	2028	3.947	$ 0.024	$	3.971	$0.14	4.11
Jun	2028	4.139	$ 0.059	$	4.198	$0.14	4.34
Jul	2028	4.159	$ 0.091	$	4.250	$0.14	4.39
Aug	2028	4.214	$ 0.089	$	4.304	$0.14	4.44
Sep	2028	4.278	$ 0.048	$	4.325	$0.14	4.47
Oct	2028	4.263	$ 0.044	$	4.307	$0.14	4.45
Nov	2028	4.329	$ 0.046	$	4.375	$0.14	4.52
Dec	2028	4.599	$ 0.054	$	4.653	$0.14	4.80
Jan	2029	4.640	$ 0.075	$	4.716	$0.15	4.86
Feb	2029	4.669	$ 0.068	$	4.737	$0.15	4.88
Mar	2029	4.455	$ 0.007	$	4.462	$0.14	4.60
Apr	2029	4.470	$ 0.002	$	4.472	$0.14	4.61
May	2029	4.534	$ 0.027	$	4.561	$0.14	4.70
Jun	2029	4.657	$ 0.062	$	4.719	$0.15	4.86
Jul	2029	4.385	$ 0.091	$	4.476	$0.14	4.62
Aug	2029	4.417	$ 0.098	$	4.516	$0.14	4.66
Sep	2029	4.535	$ 0.053	$	4.588	$0.14	4.73
Oct	2029	4.525	$ 0.040	$	4.565	$0.14	4.71
Nov	2029	4.430	$ 0.063	$	4.492	$0.14	4.63
Dec	2029	4.634	$ 0.062	$	4.696	$0.14	4.84
Jan	2030	4.665	$ 0.075	$	4.740	$0.15	4.89
Feb	2030	4.694	$ 0.069	$	4.763	$0.15	4.91
Mar	2030	4.583	$ 0.004	$	4.587	$0.14	4.73
Apr	2030	4.550	$ (0.008)	$	4.543	$0.14	4.69
May	2030	4.578	$ 0.029	$	4.607	$0.14	4.75
Jun	2030	4.653	$ 0.069	$	4.721	$0.15	4.87
Jul	2030	4.983	$ 0.104	$	5.086	$0.15	5.24
Aug	2030	5.019	$ 0.113	$	5.132	$0.15	5.28
Sep	2030	4.946	$ 0.056	$	5.002	$0.15	5.15
Oct	2030	4.722	$ 0.053	$	4.775	$0.15	4.92
Nov	2030	4.635	$ 0.056	$	4.692	$0.14	4.84
Dec	2030	4.861	$ 0.064	$	4.925	$0.15	5.07
Jan	2031	4.892	$ 0.098	$	4.989	$0.15	5.14
Feb	2031	4.922	$ 0.092	$	5.015	$0.15	5.16
Mar	2031	4.825	$ 0.019	$	4.845	$0.15	4.99
Apr	2031	4.785	$ 0.000	$	4.785	$0.15	4.93
May	2031	4.814	$ 0.055	$	4.869	$0.15	5.02
Jun	2031	4.879	$ 0.082	$	4.962	$0.15	5.11
Jul	2031	5.209	$ 0.116	$	5.325	$0.15	5.48
Aug	2031	5.261	$ 0.139	$	5.400	$0.15	5.55
Sep	2031	5.164	$ 0.086	$	5.250	$0.15	5.40
Oct	2031	5.003	$ 0.082	$	5.085	$0.15	5.24
Nov	2031	5.073	$ 0.066	$	5.139	$0.15	5.29
Dec	2031	5.249	$ 0.082	$	5.330	$0.15	5.48
Jan	2032	5.281	$ 0.106	$	5.388	$0.15	5.54
Feb	2032	5.310	$ 0.077	$	5.387	$0.15	5.54
Mar	2032	5.289	$ 0.050	$	5.339	$0.15	5.49
Apr	2032	5.127	$ 0.026	$	5.153	$0.15	5.30
May	2032	5.155	$ 0.069	$	5.224	$0.15	5.38
Jun	2032	5.188	$ 0.095	$	5.283	$0.15	5.44
Jul	2032	5.333	$ 0.136	$	5.469	$0.16	5.62
Aug	2032	5.378	$ 0.159	$	5.538	$0.16	5.69
Sep	2032	5.301	$ 0.091	$	5.392	$0.15	5.55
Oct	2032	5.266	$ 0.088	$	5.355	$0.15	5.51
Nov	2032	5.389	$ 0.053	$	5.443	$0.15	5.60
Dec	2032	5.402	$ 0.072	$	5.475	$0.16	5.63
Jan	2033	5.137	$ 0.093	$	5.230	$0.15	5.38
Feb	2033	5.172	$ 0.091	$	5.263	$0.15	5.42
Mar	2033	5.121	$ 0.022	$	5.143	$0.15	5.29
Apr	2033	5.120	$ 0.016	$	5.136	$0.15	5.29
May	2033	5.153	$ 0.032	$	5.185	$0.15	5.34
Jun	2033	5.189	$ 0.080	$	5.269	$0.15	5.42
Jul	2033	5.348	$ 0.119	$	5.467	$0.16	5.62
Aug	2033	5.395	$ 0.127	$	5.522	$0.16	5.68
Sep	2033	5.324	$ 0.068	$	5.393	$0.15	5.55
Oct	2033	5.275	$ 0.053	$	5.328	$0.15	5.48
Nov	2033	5.430	$ 0.033	$	5.463	$0.15	5.62
Dec	2033	5.620	$ 0.047	$	5.668	$0.16	5.83
Jan	2034	5.658	$ 0.080	$	5.738	$0.16	5.90
Feb	2034	5.495	$ 0.056	$	5.550	$0.16	5.71
Mar	2034	5.336	$ (0.008)	$	5.328	$0.15	5.48
Apr	2034	5.273	$ 0.009	$	5.282	$0.15	5.43
May	2034	5.307	$ 0.039	$	5.346	$0.15	5.50
Jun	2034	5.342	$ 0.084	$	5.426	$0.15	5.58
Jul	2034	5.598	$ 0.125	$	5.723	$0.16	5.88
Aug	2034	5.641	$ 0.144	$	5.785	$0.16	5.94
Sep	2034	5.534	$ 0.074	$	5.608	$0.16	5.76
Oct	2034	5.398	$ 0.049	$	5.447	$0.15	5.60
Nov	2034	5.631	$ 0.034	$	5.665	$0.16	5.82
Dec	2034	5.829	$ 0.055	$	5.884	$0.16	6.04
Jan	2035	5.870	$ 0.086	$	5.956	$0.16	6.12
Feb	2035	5.900	$ 0.065	$	5.965	$0.16	6.13
Mar	2035	5.720	$ 0.018	$	5.739	$0.16	5.90
Apr	2035	5.462	$ 0.023	$	5.485	$0.16	5.64
May	2035	5.496	$ 0.046	$	5.542	$0.16	5.70

Jun	2035	5.531	$ 0.091	$	5.623	$0.16	5.78
Jul	2035	5.817	$ 0.130	$	5.947	$0.16	6.11
Aug	2035	5.854	$ 0.147	$	6.001	$0.16	6.16
Sep	2035	5.756	$ 0.075	$	5.831	$0.16	5.99
Oct	2035	5.608	$ 0.048	$	5.656	$0.16	5.81
Nov	2035	5.657	$ 0.033	$	5.690	$0.16	5.85
Dec	2035	5.813	$ 0.058	$	5.872	$0.16	6.03
Jan	2036	5.851	$ 0.093	$	5.944	$0.16	6.11
Feb	2036	5.876	$ 0.034	$	5.911	$0.16	6.07
Mar	2036	5.778	$ 0.020	$	5.798	$0.16	5.96
Apr	2036	5.552	$ 0.023	$	5.575	$0.16	5.73
May	2036	5.586	$ 0.049	$	5.636	$0.16	5.79
Jun	2036	5.627	$ 0.096	$	5.723	$0.16	5.88
Jul	2036	5.794	$ 0.135	$	5.929	$0.16	6.09
Aug	2036	5.835	$ 0.150	$	5.985	$0.16	6.15
Sep	2036	5.807	$ 0.089	$	5.896	$0.16	6.06
Oct	2036	5.768	$ 0.076	$	5.844	$0.16	6.00
Nov	2036	5.846	$ 0.051	$	5.897	$0.16	6.06
Dec	2036	6.113	$ 0.064	$	6.177	$0.16	6.34
Jan	2037	6.160	$ 0.105	$	6.266	$0.17	6.43
Feb	2037	6.199	$ 0.081	$	6.281	$0.17	6.45
Mar	2037	6.107	$ 0.024	$	6.132	$0.16	6.30
Apr	2037	5.931	$ 0.021	$	5.952	$0.16	6.11
May	2037	5.968	$ 0.055	$	6.023	$0.16	6.19
Jun	2037	6.027	$ 0.111	$	6.138	$0.16	6.30
Jul	2037	6.286	$ 0.147	$	6.433	$0.17	6.60
Aug	2037	6.327	$ 0.147	$	6.474	$0.17	6.64
Sep	2037	6.240	$ 0.096	$	6.336	$0.17	6.50
Oct	2037	6.172	$ 0.074	$	6.246	$0.17	6.41
Nov	2037	6.250	$ 0.052	$	6.302	$0.17	6.47
Dec	2037	6.511	$ 0.078	$	6.589	$0.17	6.76
Jan	2038	6.552	$ 0.111	$	6.663	$0.17	6.83
Feb	2038	6.592	$ 0.088	$	6.681	$0.17	6.85
Mar	2038	6.491	$ 0.026	$	6.517	$0.17	6.69
Apr	2038	6.270	$ 0.044	$	6.314	$0.17	6.48
May	2038	6.308	$ 0.060	$	6.369	$0.17	6.54
Jun	2038	6.354	$ 0.118	$	6.472	$0.17	6.64
Jul	2038	6.534	$ 0.152	$	6.686	$0.17	6.86
Aug	2038	6.580	$ 0.145	$	6.725	$0.17	6.90
Sep	2038	6.432	$ 0.104	$	6.536	$0.17	6.71
Oct	2038	6.367	$ 0.064	$	6.431	$0.17	6.60
Nov	2038	6.473	$ 0.073	$	6.546	$0.17	6.72
Dec	2038	6.705	$ 0.100	$	6.805	$0.17	6.98
Jan	2039	6.748	$ 0.119	$	6.866	$0.17	7.04
Feb	2039	6.789	$ 0.101	$	6.891	$0.17	7.06
Mar	2039	6.627	$ 0.032	$	6.660	$0.17	6.83
Apr	2039	6.202	$ 0.041	$	6.243	$0.17	6.41
May	2039	6.237	$ 0.052	$	6.290	$0.17	6.46
Jun	2039	6.278	$ 0.115	$	6.392	$0.17	6.56
Jul	2039	6.341	$ 0.129	$	6.470	$0.17	6.64
Aug	2039	6.890	$ 0.145	$	7.035	$0.18	7.21
Sep	2039	6.860	$ 0.088	$	6.948	$0.17	7.12
Oct	2039	6.605	$ 0.081	$	6.686	$0.17	6.86
Nov	2039	6.680	$ 0.063	$	6.743	$0.17	6.91
Dec	2039	6.885	$ 0.087	$	6.971	$0.17	7.15
Jan	2040	6.925	$ 0.098	$	7.023	$0.18	7.20
Feb	2040	6.962	$ 0.061	$	7.022	$0.18	7.20
Mar	2040	6.849	$ 0.033	$	6.882	$0.17	7.06
Apr	2040	6.622	$ 0.013	$	6.635	$0.17	6.81
May	2040	6.660	$ 0.058	$	6.718	$0.17	6.89
Jun	2040	6.717	$ 0.108	$	6.824	$0.17	7.00
Jul	2040	6.962	$ 0.144	$	7.107	$0.18	7.28
Aug	2040	7.005	$ 0.155	$	7.160	$0.18	7.34
Sep	2040	6.991	$ 0.098	$	7.089	$0.18	7.27
Oct	2040	6.835	$ 0.086	$	6.921	$0.17	7.10
Nov	2040	6.907	$ 0.069	$	6.976	$0.17	7.15
Dec	2040	7.143	$ 0.111	$	7.255	$0.18	7.43
Jan	2041	7.186	$ 0.113	$	7.298	$0.18	7.48
Feb	2041	7.213	$ 0.083	$	7.296	$0.18	7.47
Mar	2041	7.060	$ 0.037	$	7.097	$0.18	7.27
Apr	2041	6.802	$ 0.048	$	6.850	$0.17	7.02
May	2041	6.844	$ 0.061	$	6.905	$0.17	7.08
Jun	2041	6.917	$ 0.124	$	7.041	$0.18	7.22
Jul	2041	7.221	$ 0.166	$	7.387	$0.18	7.57
Aug	2041	7.264	$ 0.158	$	7.421	$0.18	7.60
Sep	2041	7.266	$ 0.116	$	7.382	$0.18	7.56
Oct	2041	7.027	$ 0.061	$	7.088	$0.18	7.26
Nov	2041	7.157	$ 0.077	$	7.234	$0.18	7.41
Dec	2041	7.359	$ 0.127	$	7.486	$0.18	7.67
Jan	2042	7.402	$ 0.120	$	7.523	$0.18	7.70
Feb	2042	7.433	$ 0.089	$	7.522	$0.18	7.70
Mar	2042	7.276	$ 0.033	$	7.309	$0.18	7.49
Apr	2042	7.072	$ 0.045	$	7.117	$0.18	7.29
May	2042	7.115	$ 0.063	$	7.179	$0.18	7.36
Jun	2042	7.185	$ 0.134	$	7.319	$0.18	7.50
Jul	2042	7.551	$ 0.168	$	7.719	$0.18	7.90
Aug	2042	7.599	$ 0.171	$	7.770	$0.19	7.96
Sep	2042	7.574	$ 0.120	$	7.694	$0.18	7.88
Oct	2042	7.314	$ 0.080	$	7.394	$0.18	7.57
Nov	2042	7.355	$ 0.075	$	7.429	$0.18	7.61
Dec	2042	7.587	$ 0.102	$	7.689	$0.18	7.87
Jan	2043	7.632	$ 0.105	$	7.737	$0.18	7.92
Feb	2043	7.656	$ 0.058	$	7.715	$0.18	7.90
Mar	2043	7.507	$ 0.035	$	7.542	$0.18	7.72
Apr	2043	7.246	$ 0.028	$	7.275	$0.18	7.45
May	2043	7.291	$ 0.050	$	7.341	$0.18	7.52
Jun	2043	7.346	$ 0.106	$	7.452	$0.18	7.63
Jul	2043	7.705	$ 0.164	$	7.869	$0.19	8.06
Aug	2043	7.751	$ 0.156	$	7.907	$0.19	8.09
Sep	2043	7.776	$ 0.091	$	7.866	$0.19	8.05
Oct	2043	7.486	$ 0.077	$	7.562	$0.18	7.74
Nov	2043	7.551	$ 0.066	$	7.617	$0.18	7.80

Dec	2043	7.795	$	0.097	$	7.892	$0.19	8.08
Jan	2044	7.843	$	0.099	$	7.942	$0.19	8.13
Feb	2044	7.877	$	0.059	$	7.936	$0.19	8.12
Mar	2044	7.712	$	0.025	$	7.737	$0.18	7.92
Apr	2044	7.571	$	0.029	$	7.600	$0.18	7.78
May	2044	7.615	$	0.040	$	7.655	$0.18	7.84
Jun	2044	7.661	$	0.105	$	7.766	$0.19	7.95
Jul	2044	8.012	$	0.160	$	8.173	$0.19	8.36
Aug	2044	8.062	$	0.162	$	8.224	$0.19	8.42
Sep	2044	8.047	$	0.080	$	8.127	$0.19	8.32
Oct	2044	7.844	$	0.045	$	7.889	$0.19	8.08
Nov	2044	7.965	$	0.060	$	8.025	$0.19	8.21
Dec	2044	8.212	$	0.099	$	8.311	$0.19	8.50
Jan	2045	8.261	$	0.107	$	8.368	$0.19	8.56
Feb	2045	8.310	$	0.056	$	8.366	$0.19	8.56
Mar	2045	8.177	$	0.031	$	8.208	$0.19	8.40
Apr	2045	7.989	$	0.026	$	8.015	$0.19	8.20
May	2045	8.031	$	0.042	$	8.072	$0.19	8.26
Jun	2045	8.080	$	0.109	$	8.189	$0.19	8.38
Jul	2045	8.453	$	0.157	$	8.610	$0.20	8.81
Aug	2045	8.506	$	0.169	$	8.676	$0.20	8.87
Sep	2045	8.521	$	0.085	$	8.606	$0.20	8.80
Oct	2045	8.268	$	0.062	$	8.331	$0.19	8.52
Nov	2045	8.402	$	0.062	$	8.464	$0.19	8.66
Dec	2045	8.652	$	0.096	$	8.748	$0.20	8.95
Jan	2046	8.703	$	0.115	$	8.818	$0.20	9.02
Feb	2046	8.730	$	0.062	$	8.792	$0.20	8.99
Mar	2046	8.526	$	0.022	$	8.549	$0.20	8.74
Apr	2046	8.288	$	0.018	$	8.306	$0.19	8.50
May	2046	8.324	$	0.043	$	8.368	$0.19	8.56
Jun	2046	8.374	$	0.110	$	8.484	$0.19	8.68
Jul	2046	8.801	$	0.158	$	8.959	$0.20	9.16
Aug	2046	8.857	$	0.176	$	9.033	$0.20	9.23
Sep	2046	8.828	$	0.081	$	8.909	$0.20	9.11
Oct	2046	8.549	$	0.062	$	8.611	$0.20	8.81
Nov	2046	8.628	$	0.064	$	8.692	$0.20	8.89
Dec	2046	8.854	$	0.103	$	8.957	$0.20	9.16
Jan	2047	8.906	$	0.126	$	9.032	$0.20	9.23
Feb	2047	8.921	$	0.058	$	8.979	$0.20	9.18
Mar	2047	8.604	$	0.019	$	8.622	$0.20	8.82
Apr	2047	8.403	$	0.022	$	8.425	$0.19	8.62
May	2047	8.437	$	0.039	$	8.476	$0.19	8.67
Jun	2047	8.486	$	0.123	$	8.610	$0.20	8.81
Jul	2047	8.902	$	0.165	$	9.067	$0.20	9.27
Aug	2047	8.958	$	0.182	$	9.140	$0.20	9.34
Sep	2047	8.954	$	0.088	$	9.042	$0.20	9.24
Oct	2047	8.794	$	0.052	$	8.846	$0.20	9.05
Nov	2047	8.872	$	0.052	$	8.924	$0.20	9.12
Dec	2047	8.907	$	0.093	$	9.001	$0.20	9.20
Jan	2048	8.959	$	0.109	$	9.068	$0.20	9.27
Feb	2048	9.002	$	0.036	$	9.038	$0.20	9.24
Mar	2048	8.799	$	0.007	$	8.806	$0.20	9.00
Apr	2048	8.672	$	0.022	$	8.694	$0.20	8.89
May	2048	8.721	$	0.032	$	8.753	$0.20	8.95
Jun	2048	8.811	$	0.099	$	8.910	$0.20	9.11
Jul	2048	9.345	$	0.136	$	9.480	$0.21	9.69
Aug	2048	9.410	$	0.181	$	9.591	$0.21	9.80
Sep	2048	9.428	$	0.072	$	9.500	$0.21	9.71
Oct	2048	9.043	$	0.058	$	9.101	$0.20	9.30
Nov	2048	9.185	$	0.046	$	9.231	$0.20	9.44
Dec	2048	9.448	$	0.061	$	9.509	$0.21	9.72
Jan	2049	9.502	$	0.085	$	9.587	$0.21	9.80
Feb	2049	9.512	$	0.031	$	9.544	$0.21	9.75
Mar	2049	9.452	$	0.007	$	9.458	$0.21	9.67
Apr	2049	9.346	$	0.019	$	9.365	$0.21	9.57
May	2049	8.991	$	0.033	$	9.023	$0.20	9.22
Jun	2049	9.041	$	0.089	$	9.130	$0.20	9.33
Jul	2049	9.257	$	0.124	$	9.381	$0.21	9.59
Aug	2049	9.309	$	0.151	$	9.460	$0.21	9.67
Sep	2049	9.142	$	0.071	$	9.214	$0.20	9.42
Oct	2049	8.977	$	0.058	$	9.035	$0.20	9.24
Nov	2049	9.324	$	0.046	$	9.370	$0.21	9.58
Dec	2049	9.702	$	0.062	$	9.764	$0.21	9.98
Jan	2050	9.755	$	0.086	$	9.841	$0.21	10.05
Feb	2050	9.783	$	0.033	$	9.816	$0.21	10.03
Mar	2050	9.486	$	0.006	$	9.492	$0.21	9.70
Apr	2050	9.015	$	0.023	$	9.038	$0.20	9.24
May	2050	9.058	$	0.032	$	9.090	$0.20	9.29
Jun	2050	9.108	$	0.097	$	9.204	$0.20	9.41
Jul	2050	9.393	$	0.124	$	9.517	$0.21	9.72
Aug	2050	9.450	$	0.158	$	9.608	$0.21	9.82
Sep	2050	9.423	$	0.072	$	9.496	$0.21	9.70
Oct	2050	9.119	$	0.063	$	9.182	$0.20	9.39
Nov	2050	9.368	$	0.047	$	9.416	$0.21	9.62
Dec	2050	9.683	$	0.065	$	9.748	$0.21	9.96

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	FGT MMBTU Variable Cost	FGT Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.046)	$ 3.064	$0.13	3.19
Feb	2019	2.690	$ (0.019)	$ 2.671	$0.12	2.79
Mar	2019	2.950	$ (0.003)	$ 2.947	$0.12	3.07
Apr	2019	2.650	$ (0.001)	$ 2.649	$0.11	2.76
May	2019	2.640	$ 0.005	$ 2.645	$0.11	2.76
Jun	2019	2.400	$ 0.037	$ 2.437	$0.11	2.55
Jul	2019	2.370	$ 0.048	$ 2.418	$0.11	2.53
Aug	2019	2.220	$ 0.056	$ 2.276	$0.11	2.38
Sep	2019	2.560	$ 0.016	$ 2.576	$0.11	2.69
Oct	2019	2.743	$ 0.010	$ 2.753	$0.12	2.87
Nov	2019	2.303	$ 0.012	$ 2.315	$0.11	2.42
Dec	2019	2.495	$ 0.023	$ 2.518	$0.11	2.63
Jan	2020	2.612	$ 0.035	$ 2.647	$0.11	2.76
Feb	2020	2.575	$ 0.024	$ 2.599	$0.11	2.71
Mar	2020	2.462	$ (0.020)	$ 2.442	$0.11	2.55
Apr	2020	2.247	$ (0.019)	$ 2.228	$0.10	2.33
May	2020	2.234	$ 0.005	$ 2.239	$0.10	2.34
Jun	2020	2.278	$ 0.026	$ 2.304	$0.11	2.41
Jul	2020	2.326	$ 0.048	$ 2.374	$0.11	2.48
Aug	2020	2.335	$ 0.055	$ 2.390	$0.11	2.50
Sep	2020	2.318	$ 0.012	$ 2.330	$0.11	2.44
Oct	2020	2.344	$ 0.016	$ 2.360	$0.11	2.47
Nov	2020	2.409	$ 0.025	$ 2.434	$0.11	2.54
Dec	2020	2.578	$ 0.034	$ 2.612	$0.11	2.73
Jan	2021	2.700	$ 0.038	$ 2.738	$0.12	2.86
Feb	2021	2.661	$ 0.033	$ 2.694	$0.12	2.81
Mar	2021	2.548	$ (0.015)	$ 2.533	$0.11	2.64
Apr	2021	2.284	$ (0.021)	$ 2.263	$0.11	2.37
May	2021	2.260	$ 0.005	$ 2.265	$0.11	2.37
Jun	2021	2.294	$ 0.025	$ 2.319	$0.11	2.43
Jul	2021	2.332	$ 0.047	$ 2.379	$0.11	2.49
Aug	2021	2.339	$ 0.058	$ 2.397	$0.11	2.51
Sep	2021	2.328	$ 0.011	$ 2.339	$0.11	2.45
Oct	2021	2.354	$ 0.018	$ 2.372	$0.11	2.48
Nov	2021	2.424	$ 0.027	$ 2.451	$0.11	2.56
Dec	2021	2.603	$ 0.038	$ 2.641	$0.11	2.76
Jan	2022	2.729	$ 0.041	$ 2.770	$0.12	2.89
Feb	2022	2.702	$ 0.036	$ 2.738	$0.12	2.86
Mar	2022	2.595	$ (0.013)	$ 2.582	$0.11	2.70
Apr	2022	2.340	$ (0.016)	$ 2.324	$0.11	2.43
May	2022	2.324	$ 0.007	$ 2.331	$0.11	2.44
Jun	2022	2.359	$ 0.034	$ 2.393	$0.11	2.50
Jul	2022	2.399	$ 0.059	$ 2.458	$0.11	2.57
Aug	2022	2.411	$ 0.066	$ 2.477	$0.11	2.59
Sep	2022	2.404	$ 0.021	$ 2.425	$0.11	2.53
Oct	2022	2.430	$ 0.024	$ 2.454	$0.11	2.56
Nov	2022	2.492	$ 0.034	$ 2.526	$0.11	2.64
Dec	2022	2.674	$ 0.044	$ 2.718	$0.12	2.83
Jan	2023	2.799	$ 0.052	$ 2.851	$0.12	2.97
Feb	2023	2.767	$ 0.047	$ 2.814	$0.12	2.93
Mar	2023	2.656	$ (0.003)	$ 2.653	$0.11	2.77
Apr	2023	2.401	$ (0.008)	$ 2.393	$0.11	2.50
May	2023	2.385	$ 0.016	$ 2.401	$0.11	2.51
Jun	2023	2.426	$ 0.042	$ 2.468	$0.11	2.58
Jul	2023	2.466	$ 0.068	$ 2.534	$0.11	2.65
Aug	2023	2.481	$ 0.076	$ 2.557	$0.11	2.67
Sep	2023	2.476	$ 0.029	$ 2.505	$0.11	2.62
Oct	2023	2.505	$ 0.030	$ 2.535	$0.11	2.65
Nov	2023	2.580	$ 0.037	$ 2.617	$0.11	2.73
Dec	2023	2.760	$ 0.053	$ 2.813	$0.12	2.93
Jan	2024	2.889	$ 0.058	$ 2.947	$0.12	3.07
Feb	2024	2.866	$ 0.050	$ 2.915	$0.12	3.04
Mar	2024	2.760	$ (0.002)	$ 2.758	$0.12	2.88

FGT - Firm			
Current Yr	2019	√	DJ 10/11
Fuel Retention	2.44%	√	DJ 10/11
100%-B	97.56%		
Total Variable	0.0486		
Esc%	100.00%	√	DJ 10/11
Variable			
Usage Rate (Avg)	0.0109	√	DJ 10/11
ACA	0.0013	√	DJ 10/11
UFS	0.0364	√	DJ 10/11
Total Variable	0.0486		

Apr	2024	2.534	$ (0.007)	$	2.527	$0.11	2.64
May	2024	2.531	$ 0.017	$	2.548	$0.11	2.66
Jun	2024	2.573	$ 0.046	$	2.619	$0.11	2.73
Jul	2024	2.623	$ 0.077	$	2.700	$0.12	2.82
Aug	2024	2.644	$ 0.077	$	2.722	$0.12	2.84
Sep	2024	2.646	$ 0.047	$	2.693	$0.12	2.81
Oct	2024	2.672	$ 0.040	$	2.713	$0.12	2.83
Nov	2024	2.758	$ 0.044	$	2.802	$0.12	2.92
Dec	2024	2.940	$ 0.056	$	2.996	$0.12	3.12
Jan	2025	3.054	$ 0.061	$	3.115	$0.13	3.24
Feb	2025	3.048	$ 0.055	$	3.103	$0.13	3.23
Mar	2025	2.970	$ (0.001)	$	2.969	$0.12	3.09
Apr	2025	2.799	$ (0.011)	$	2.789	$0.12	2.91
May	2025	2.811	$ 0.016	$	2.826	$0.12	2.95
Jun	2025	2.854	$ 0.054	$	2.908	$0.12	3.03
Jul	2025	2.948	$ 0.078	$	3.027	$0.12	3.15
Aug	2025	2.980	$ 0.078	$	3.058	$0.13	3.18
Sep	2025	2.883	$ 0.045	$	2.928	$0.12	3.05
Oct	2025	2.903	$ 0.035	$	2.938	$0.12	3.06
Nov	2025	2.990	$ 0.036	$	3.026	$0.12	3.15
Dec	2025	3.163	$ 0.051	$	3.214	$0.13	3.34
Jan	2026	3.255	$ 0.057	$	3.311	$0.13	3.44
Feb	2026	3.255	$ 0.053	$	3.308	$0.13	3.44
Mar	2026	3.176	$ (0.003)	$	3.172	$0.13	3.30
Apr	2026	3.042	$ (0.001)	$	3.041	$0.12	3.17
May	2026	3.061	$ 0.022	$	3.083	$0.13	3.21
Jun	2026	3.116	$ 0.053	$	3.169	$0.13	3.30
Jul	2026	3.276	$ 0.077	$	3.353	$0.13	3.49
Aug	2026	3.318	$ 0.078	$	3.396	$0.13	3.53
Sep	2026	3.252	$ 0.041	$	3.293	$0.13	3.42
Oct	2026	3.247	$ 0.034	$	3.280	$0.13	3.41
Nov	2026	3.322	$ 0.042	$	3.364	$0.13	3.50
Dec	2026	3.506	$ 0.054	$	3.559	$0.14	3.70
Jan	2027	3.583	$ 0.062	$	3.645	$0.14	3.78
Feb	2027	3.604	$ 0.057	$	3.661	$0.14	3.80
Mar	2027	3.551	$ (0.002)	$	3.549	$0.14	3.69
Apr	2027	3.396	$ (0.002)	$	3.394	$0.13	3.53
May	2027	3.424	$ 0.021	$	3.445	$0.13	3.58
Jun	2027	3.498	$ 0.051	$	3.549	$0.14	3.69
Jul	2027	3.731	$ 0.079	$	3.809	$0.14	3.95
Aug	2027	3.778	$ 0.082	$	3.860	$0.15	4.01
Sep	2027	3.768	$ 0.043	$	3.812	$0.14	3.96
Oct	2027	3.651	$ 0.038	$	3.690	$0.14	3.83
Nov	2027	3.730	$ 0.043	$	3.773	$0.14	3.92
Dec	2027	3.930	$ 0.054	$	3.984	$0.15	4.13
Jan	2028	3.993	$ 0.063	$	4.056	$0.15	4.21
Feb	2028	4.025	$ 0.047	$	4.072	$0.15	4.22
Mar	2028	3.948	$ (0.002)	$	3.946	$0.15	4.09
Apr	2028	3.907	$ (0.006)	$	3.900	$0.15	4.05
May	2028	3.947	$ 0.024	$	3.971	$0.15	4.12
Jun	2028	4.139	$ 0.059	$	4.198	$0.15	4.35
Jul	2028	4.159	$ 0.091	$	4.250	$0.15	4.40
Aug	2028	4.214	$ 0.089	$	4.304	$0.16	4.46
Sep	2028	4.278	$ 0.048	$	4.325	$0.16	4.48
Oct	2028	4.263	$ 0.044	$	4.307	$0.16	4.46
Nov	2028	4.329	$ 0.046	$	4.375	$0.16	4.53
Dec	2028	4.599	$ 0.054	$	4.653	$0.16	4.82
Jan	2029	4.640	$ 0.075	$	4.716	$0.17	4.88
Feb	2029	4.669	$ 0.068	$	4.737	$0.17	4.90
Mar	2029	4.455	$ 0.007	$	4.462	$0.16	4.62
Apr	2029	4.470	$ 0.002	$	4.472	$0.16	4.63
May	2029	4.534	$ 0.027	$	4.561	$0.16	4.72
Jun	2029	4.657	$ 0.062	$	4.719	$0.17	4.89
Jul	2029	4.385	$ 0.091	$	4.476	$0.16	4.64
Aug	2029	4.417	$ 0.098	$	4.516	$0.16	4.68
Sep	2029	4.535	$ 0.053	$	4.588	$0.16	4.75
Oct	2029	4.525	$ 0.040	$	4.565	$0.16	4.73
Nov	2029	4.430	$ 0.063	$	4.492	$0.16	4.65
Dec	2029	4.634	$ 0.062	$	4.696	$0.17	4.86

Jan	2030	4.665	$ 0.075	$	4.740	$0.17	4.91
Feb	2030	4.694	$ 0.069	$	4.763	$0.17	4.93
Mar	2030	4.583	$ 0.004	$	4.587	$0.16	4.75
Apr	2030	4.550	$ (0.008)	$	4.543	$0.16	4.71
May	2030	4.578	$ 0.029	$	4.607	$0.16	4.77
Jun	2030	4.653	$ 0.069	$	4.721	$0.17	4.89
Jul	2030	4.983	$ 0.104	$	5.086	$0.18	5.26
Aug	2030	5.019	$ 0.113	$	5.132	$0.18	5.31
Sep	2030	4.946	$ 0.056	$	5.002	$0.17	5.18
Oct	2030	4.722	$ 0.053	$	4.775	$0.17	4.94
Nov	2030	4.635	$ 0.056	$	4.692	$0.17	4.86
Dec	2030	4.861	$ 0.064	$	4.925	$0.17	5.10
Jan	2031	4.892	$ 0.098	$	4.989	$0.17	5.16
Feb	2031	4.922	$ 0.092	$	5.015	$0.17	5.19
Mar	2031	4.825	$ 0.019	$	4.845	$0.17	5.01
Apr	2031	4.785	$ 0.000	$	4.785	$0.17	4.95
May	2031	4.814	$ 0.055	$	4.869	$0.17	5.04
Jun	2031	4.879	$ 0.082	$	4.962	$0.17	5.13
Jul	2031	5.209	$ 0.116	$	5.325	$0.18	5.51
Aug	2031	5.261	$ 0.139	$	5.400	$0.18	5.58
Sep	2031	5.164	$ 0.086	$	5.250	$0.18	5.43
Oct	2031	5.003	$ 0.082	$	5.085	$0.18	5.26
Nov	2031	5.073	$ 0.066	$	5.139	$0.18	5.32
Dec	2031	5.249	$ 0.082	$	5.330	$0.18	5.51
Jan	2032	5.281	$ 0.106	$	5.388	$0.18	5.57
Feb	2032	5.310	$ 0.077	$	5.387	$0.18	5.57
Mar	2032	5.289	$ 0.050	$	5.339	$0.18	5.52
Apr	2032	5.127	$ 0.026	$	5.153	$0.18	5.33
May	2032	5.155	$ 0.069	$	5.224	$0.18	5.40
Jun	2032	5.188	$ 0.095	$	5.283	$0.18	5.46
Jul	2032	5.333	$ 0.136	$	5.469	$0.19	5.65
Aug	2032	5.378	$ 0.159	$	5.538	$0.19	5.73
Sep	2032	5.301	$ 0.091	$	5.392	$0.18	5.58
Oct	2032	5.266	$ 0.088	$	5.355	$0.18	5.54
Nov	2032	5.389	$ 0.053	$	5.443	$0.18	5.63
Dec	2032	5.402	$ 0.072	$	5.475	$0.19	5.66
Jan	2033	5.137	$ 0.093	$	5.230	$0.18	5.41
Feb	2033	5.172	$ 0.091	$	5.263	$0.18	5.44
Mar	2033	5.121	$ 0.022	$	5.143	$0.18	5.32
Apr	2033	5.120	$ 0.016	$	5.136	$0.18	5.31
May	2033	5.153	$ 0.032	$	5.185	$0.18	5.36
Jun	2033	5.189	$ 0.080	$	5.269	$0.18	5.45
Jul	2033	5.348	$ 0.119	$	5.467	$0.19	5.65
Aug	2033	5.395	$ 0.127	$	5.522	$0.19	5.71
Sep	2033	5.324	$ 0.068	$	5.393	$0.18	5.58
Oct	2033	5.275	$ 0.053	$	5.328	$0.18	5.51
Nov	2033	5.430	$ 0.033	$	5.463	$0.19	5.65
Dec	2033	5.620	$ 0.047	$	5.668	$0.19	5.86
Jan	2034	5.658	$ 0.080	$	5.738	$0.19	5.93
Feb	2034	5.495	$ 0.056	$	5.550	$0.19	5.74
Mar	2034	5.336	$ (0.008)	$	5.328	$0.18	5.51
Apr	2034	5.273	$ 0.009	$	5.282	$0.18	5.46
May	2034	5.307	$ 0.039	$	5.346	$0.18	5.53
Jun	2034	5.342	$ 0.084	$	5.426	$0.18	5.61
Jul	2034	5.598	$ 0.125	$	5.723	$0.19	5.91
Aug	2034	5.641	$ 0.144	$	5.785	$0.19	5.98
Sep	2034	5.534	$ 0.074	$	5.608	$0.19	5.80
Oct	2034	5.398	$ 0.049	$	5.447	$0.18	5.63
Nov	2034	5.631	$ 0.034	$	5.665	$0.19	5.86
Dec	2034	5.829	$ 0.055	$	5.884	$0.20	6.08
Jan	2035	5.870	$ 0.086	$	5.956	$0.20	6.15
Feb	2035	5.900	$ 0.065	$	5.965	$0.20	6.16
Mar	2035	5.720	$ 0.018	$	5.739	$0.19	5.93
Apr	2035	5.462	$ 0.023	$	5.485	$0.19	5.67
May	2035	5.496	$ 0.046	$	5.542	$0.19	5.73
Jun	2035	5.531	$ 0.091	$	5.623	$0.19	5.81
Jul	2035	5.817	$ 0.130	$	5.947	$0.20	6.14
Aug	2035	5.854	$ 0.147	$	6.001	$0.20	6.20
Sep	2035	5.756	$ 0.075	$	5.831	$0.19	6.03

Oct	2035	5.608	$ 0.048	$ 5.656	$0.19	5.85	
Nov	2035	5.657	$ 0.033	$ 5.690	$0.19	5.88	
Dec	2035	5.813	$ 0.058	$ 5.872	$0.20	6.07	
Jan	2036	5.851	$ 0.093	$ 5.944	$0.20	6.14	
Feb	2036	5.876	$ 0.034	$ 5.911	$0.20	6.11	
Mar	2036	5.778	$ 0.020	$ 5.798	$0.19	5.99	
Apr	2036	5.552	$ 0.023	$ 5.575	$0.19	5.76	
May	2036	5.586	$ 0.049	$ 5.636	$0.19	5.83	
Jun	2036	5.627	$ 0.096	$ 5.723	$0.19	5.91	
Jul	2036	5.794	$ 0.135	$ 5.929	$0.20	6.13	
Aug	2036	5.835	$ 0.150	$ 5.985	$0.20	6.18	
Sep	2036	5.807	$ 0.089	$ 5.896	$0.20	6.09	
Oct	2036	5.768	$ 0.076	$ 5.844	$0.19	6.04	
Nov	2036	5.846	$ 0.051	$ 5.897	$0.20	6.09	
Dec	2036	6.113	$ 0.064	$ 6.177	$0.20	6.38	
Jan	2037	6.160	$ 0.105	$ 6.266	$0.21	6.47	
Feb	2037	6.199	$ 0.081	$ 6.281	$0.21	6.49	
Mar	2037	6.107	$ 0.024	$ 6.132	$0.20	6.33	
Apr	2037	5.931	$ 0.021	$ 5.952	$0.20	6.15	
May	2037	5.968	$ 0.055	$ 6.023	$0.20	6.22	
Jun	2037	6.027	$ 0.111	$ 6.138	$0.20	6.34	
Jul	2037	6.286	$ 0.147	$ 6.433	$0.21	6.64	
Aug	2037	6.327	$ 0.147	$ 6.474	$0.21	6.68	
Sep	2037	6.240	$ 0.096	$ 6.336	$0.21	6.54	
Oct	2037	6.172	$ 0.074	$ 6.246	$0.20	6.45	
Nov	2037	6.250	$ 0.052	$ 6.302	$0.21	6.51	
Dec	2037	6.511	$ 0.078	$ 6.589	$0.21	6.80	
Jan	2038	6.552	$ 0.111	$ 6.663	$0.22	6.88	
Feb	2038	6.592	$ 0.088	$ 6.681	$0.22	6.90	
Mar	2038	6.491	$ 0.026	$ 6.517	$0.21	6.73	
Apr	2038	6.270	$ 0.044	$ 6.314	$0.21	6.52	
May	2038	6.308	$ 0.060	$ 6.369	$0.21	6.58	
Jun	2038	6.354	$ 0.118	$ 6.472	$0.21	6.68	
Jul	2038	6.534	$ 0.152	$ 6.686	$0.22	6.90	
Aug	2038	6.580	$ 0.145	$ 6.725	$0.22	6.94	
Sep	2038	6.432	$ 0.104	$ 6.536	$0.21	6.75	
Oct	2038	6.367	$ 0.064	$ 6.431	$0.21	6.64	
Nov	2038	6.473	$ 0.073	$ 6.546	$0.21	6.76	
Dec	2038	6.705	$ 0.100	$ 6.805	$0.22	7.02	
Jan	2039	6.748	$ 0.119	$ 6.866	$0.22	7.09	
Feb	2039	6.789	$ 0.101	$ 6.891	$0.22	7.11	
Mar	2039	6.627	$ 0.032	$ 6.660	$0.22	6.88	
Apr	2039	6.202	$ 0.041	$ 6.243	$0.20	6.45	
May	2039	6.237	$ 0.052	$ 6.290	$0.21	6.50	
Jun	2039	6.278	$ 0.115	$ 6.392	$0.21	6.60	
Jul	2039	6.341	$ 0.129	$ 6.470	$0.21	6.68	
Aug	2039	6.890	$ 0.145	$ 7.035	$0.22	7.26	
Sep	2039	6.860	$ 0.088	$ 6.948	$0.22	7.17	
Oct	2039	6.605	$ 0.081	$ 6.686	$0.22	6.90	
Nov	2039	6.680	$ 0.063	$ 6.743	$0.22	6.96	
Dec	2039	6.885	$ 0.087	$ 6.971	$0.22	7.19	
Jan	2040	6.925	$ 0.098	$ 7.023	$0.22	7.25	
Feb	2040	6.962	$ 0.061	$ 7.022	$0.22	7.25	
Mar	2040	6.849	$ 0.033	$ 6.882	$0.22	7.10	
Apr	2040	6.622	$ 0.013	$ 6.635	$0.21	6.85	
May	2040	6.660	$ 0.058	$ 6.718	$0.22	6.93	
Jun	2040	6.717	$ 0.108	$ 6.824	$0.22	7.04	
Jul	2040	6.962	$ 0.144	$ 7.107	$0.23	7.33	
Aug	2040	7.005	$ 0.155	$ 7.160	$0.23	7.39	
Sep	2040	6.991	$ 0.098	$ 7.089	$0.23	7.31	
Oct	2040	6.835	$ 0.086	$ 6.921	$0.22	7.14	
Nov	2040	6.907	$ 0.069	$ 6.976	$0.22	7.20	
Dec	2040	7.143	$ 0.111	$ 7.255	$0.23	7.49	
Jan	2041	7.186	$ 0.113	$ 7.298	$0.23	7.53	
Feb	2041	7.213	$ 0.083	$ 7.296	$0.23	7.53	
Mar	2041	7.060	$ 0.037	$ 7.097	$0.23	7.32	
Apr	2041	6.802	$ 0.048	$ 6.850	$0.22	7.07	
May	2041	6.844	$ 0.061	$ 6.905	$0.22	7.13	
Jun	2041	6.917	$ 0.124	$ 7.041	$0.22	7.27	

Jul	2041	7.221	$	0.166	$ 7.387	$0.23	7.62
Aug	2041	7.264	$	0.158	$ 7.421	$0.23	7.66
Sep	2041	7.266	$	0.116	$ 7.382	$0.23	7.62
Oct	2041	7.027	$	0.061	$ 7.088	$0.23	7.31
Nov	2041	7.157	$	0.077	$ 7.234	$0.23	7.46
Dec	2041	7.359	$	0.127	$ 7.486	$0.24	7.72
Jan	2042	7.402	$	0.120	$ 7.523	$0.24	7.76
Feb	2042	7.433	$	0.089	$ 7.522	$0.24	7.76
Mar	2042	7.276	$	0.033	$ 7.309	$0.23	7.54
Apr	2042	7.072	$	0.045	$ 7.117	$0.23	7.34
May	2042	7.115	$	0.063	$ 7.179	$0.23	7.41
Jun	2042	7.185	$	0.134	$ 7.319	$0.23	7.55
Jul	2042	7.551	$	0.168	$ 7.719	$0.24	7.96
Aug	2042	7.599	$	0.171	$ 7.770	$0.24	8.01
Sep	2042	7.574	$	0.120	$ 7.694	$0.24	7.94
Oct	2042	7.314	$	0.080	$ 7.394	$0.23	7.63
Nov	2042	7.355	$	0.075	$ 7.429	$0.23	7.66
Dec	2042	7.587	$	0.102	$ 7.689	$0.24	7.93
Jan	2043	7.632	$	0.105	$ 7.737	$0.24	7.98
Feb	2043	7.656	$	0.058	$ 7.715	$0.24	7.96
Mar	2043	7.507	$	0.035	$ 7.542	$0.24	7.78
Apr	2043	7.246	$	0.028	$ 7.275	$0.23	7.51
May	2043	7.291	$	0.050	$ 7.341	$0.23	7.57
Jun	2043	7.346	$	0.106	$ 7.452	$0.23	7.69
Jul	2043	7.705	$	0.164	$ 7.869	$0.25	8.11
Aug	2043	7.751	$	0.156	$ 7.907	$0.25	8.15
Sep	2043	7.776	$	0.091	$ 7.866	$0.25	8.11
Oct	2043	7.486	$	0.077	$ 7.562	$0.24	7.80
Nov	2043	7.551	$	0.066	$ 7.617	$0.24	7.86
Dec	2043	7.795	$	0.097	$ 7.892	$0.25	8.14
Jan	2044	7.843	$	0.099	$ 7.942	$0.25	8.19
Feb	2044	7.877	$	0.059	$ 7.936	$0.25	8.18
Mar	2044	7.712	$	0.025	$ 7.737	$0.24	7.98
Apr	2044	7.571	$	0.029	$ 7.600	$0.24	7.84
May	2044	7.615	$	0.040	$ 7.655	$0.24	7.90
Jun	2044	7.661	$	0.105	$ 7.766	$0.24	8.01
Jul	2044	8.012	$	0.160	$ 8.173	$0.25	8.43
Aug	2044	8.062	$	0.162	$ 8.224	$0.25	8.48
Sep	2044	8.047	$	0.080	$ 8.127	$0.25	8.38
Oct	2044	7.844	$	0.045	$ 7.889	$0.25	8.13
Nov	2044	7.965	$	0.060	$ 8.025	$0.25	8.27
Dec	2044	8.212	$	0.099	$ 8.311	$0.26	8.57
Jan	2045	8.261	$	0.107	$ 8.368	$0.26	8.63
Feb	2045	8.310	$	0.056	$ 8.366	$0.26	8.62
Mar	2045	8.177	$	0.031	$ 8.208	$0.25	8.46
Apr	2045	7.989	$	0.026	$ 8.015	$0.25	8.26
May	2045	8.031	$	0.042	$ 8.072	$0.25	8.32
Jun	2045	8.080	$	0.109	$ 8.189	$0.25	8.44
Jul	2045	8.453	$	0.157	$ 8.610	$0.26	8.87
Aug	2045	8.506	$	0.169	$ 8.676	$0.27	8.94
Sep	2045	8.521	$	0.085	$ 8.606	$0.26	8.87
Oct	2045	8.268	$	0.062	$ 8.331	$0.26	8.59
Nov	2045	8.402	$	0.062	$ 8.464	$0.26	8.72
Dec	2045	8.652	$	0.096	$ 8.748	$0.27	9.02
Jan	2046	8.703	$	0.115	$ 8.818	$0.27	9.09
Feb	2046	8.730	$	0.062	$ 8.792	$0.27	9.06
Mar	2046	8.526	$	0.022	$ 8.549	$0.26	8.81
Apr	2046	8.288	$	0.018	$ 8.306	$0.26	8.56
May	2046	8.324	$	0.043	$ 8.368	$0.26	8.63
Jun	2046	8.374	$	0.110	$ 8.484	$0.26	8.74
Jul	2046	8.801	$	0.158	$ 8.959	$0.27	9.23
Aug	2046	8.857	$	0.176	$ 9.033	$0.27	9.31
Sep	2046	8.828	$	0.081	$ 8.909	$0.27	9.18
Oct	2046	8.549	$	0.062	$ 8.611	$0.26	8.87
Nov	2046	8.628	$	0.064	$ 8.692	$0.27	8.96
Dec	2046	8.854	$	0.103	$ 8.957	$0.27	9.23
Jan	2047	8.906	$	0.126	$ 9.032	$0.27	9.31
Feb	2047	8.921	$	0.058	$ 8.979	$0.27	9.25
Mar	2047	8.604	$	0.019	$ 8.622	$0.26	8.89

Apr	2047	8.403	$	0.022	$	8.425	$0.26	8.68
May	2047	8.437	$	0.039	$	8.476	$0.26	8.74
Jun	2047	8.486	$	0.123	$	8.610	$0.26	8.87
Jul	2047	8.902	$	0.165	$	9.067	$0.28	9.34
Aug	2047	8.958	$	0.182	$	9.140	$0.28	9.42
Sep	2047	8.954	$	0.088	$	9.042	$0.27	9.32
Oct	2047	8.794	$	0.052	$	8.846	$0.27	9.12
Nov	2047	8.872	$	0.052	$	8.924	$0.27	9.20
Dec	2047	8.907	$	0.093	$	9.001	$0.27	9.27
Jan	2048	8.959	$	0.109	$	9.068	$0.28	9.34
Feb	2048	9.002	$	0.036	$	9.038	$0.27	9.31
Mar	2048	8.799	$	0.007	$	8.806	$0.27	9.07
Apr	2048	8.672	$	0.022	$	8.694	$0.27	8.96
May	2048	8.721	$	0.032	$	8.753	$0.27	9.02
Jun	2048	8.811	$	0.099	$	8.910	$0.27	9.18
Jul	2048	9.345	$	0.136	$	9.480	$0.29	9.77
Aug	2048	9.410	$	0.181	$	9.591	$0.29	9.88
Sep	2048	9.428	$	0.072	$	9.500	$0.29	9.79
Oct	2048	9.043	$	0.058	$	9.101	$0.28	9.38
Nov	2048	9.185	$	0.046	$	9.231	$0.28	9.51
Dec	2048	9.448	$	0.061	$	9.509	$0.29	9.80
Jan	2049	9.502	$	0.085	$	9.587	$0.29	9.88
Feb	2049	9.512	$	0.031	$	9.544	$0.29	9.83
Mar	2049	9.452	$	0.007	$	9.458	$0.29	9.74
Apr	2049	9.346	$	0.019	$	9.365	$0.28	9.65
May	2049	8.991	$	0.033	$	9.023	$0.27	9.30
Jun	2049	9.041	$	0.089	$	9.130	$0.28	9.41
Jul	2049	9.257	$	0.124	$	9.381	$0.28	9.66
Aug	2049	9.309	$	0.151	$	9.460	$0.29	9.75
Sep	2049	9.142	$	0.071	$	9.214	$0.28	9.49
Oct	2049	8.977	$	0.058	$	9.035	$0.27	9.31
Nov	2049	9.324	$	0.046	$	9.370	$0.28	9.65
Dec	2049	9.702	$	0.062	$	9.764	$0.29	10.06
Jan	2050	9.755	$	0.086	$	9.841	$0.29	10.14
Feb	2050	9.783	$	0.033	$	9.816	$0.29	10.11
Mar	2050	9.486	$	0.006	$	9.492	$0.29	9.78
Apr	2050	9.015	$	0.023	$	9.038	$0.27	9.31
May	2050	9.058	$	0.032	$	9.090	$0.28	9.37
Jun	2050	9.108	$	0.097	$	9.204	$0.28	9.48
Jul	2050	9.393	$	0.124	$	9.517	$0.29	9.80
Aug	2050	9.450	$	0.158	$	9.608	$0.29	9.90
Sep	2050	9.423	$	0.072	$	9.496	$0.29	9.78
Oct	2050	9.119	$	0.063	$	9.182	$0.28	9.46
Nov	2050	9.368	$	0.047	$	9.416	$0.28	9.70
Dec	2050	9.683	$	0.065	$	9.748	$0.29	10.04

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	FGT MMBTU Variable Cost	FGT Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.046)	$ 3.064	$1.05	4.12
Feb	2019	2.690	$ (0.019)	$ 2.671	$1.04	3.72
Mar	2019	2.950	$ (0.003)	$ 2.947	$1.05	4.00
Apr	2019	2.650	$ (0.001)	$ 2.649	$1.04	3.69
May	2019	2.640	$ 0.005	$ 2.645	$1.04	3.69
Jun	2019	2.400	$ 0.037	$ 2.437	$1.04	3.48
Jul	2019	2.370	$ 0.048	$ 2.418	$1.04	3.46
Aug	2019	2.220	$ 0.056	$ 2.276	$1.03	3.31
Sep	2019	2.560	$ 0.016	$ 2.576	$1.04	3.62
Oct	2019	2.743	$ 0.010	$ 2.753	$1.05	3.80
Nov	2019	2.303	$ 0.012	$ 2.315	$1.04	3.35
Dec	2019	2.495	$ 0.023	$ 2.518	$1.04	3.56
Jan	2020	2.612	$ 0.035	$ 2.647	$1.04	3.69
Feb	2020	2.575	$ 0.024	$ 2.599	$1.04	3.64
Mar	2020	2.462	$ (0.020)	$ 2.442	$1.04	3.48
Apr	2020	2.247	$ (0.019)	$ 2.228	$1.03	3.26
May	2020	2.234	$ 0.005	$ 2.239	$1.03	3.27
Jun	2020	2.278	$ 0.026	$ 2.304	$1.04	3.34
Jul	2020	2.326	$ 0.048	$ 2.374	$1.04	3.41
Aug	2020	2.335	$ 0.055	$ 2.390	$1.04	3.43
Sep	2020	2.318	$ 0.012	$ 2.330	$1.04	3.37
Oct	2020	2.344	$ 0.016	$ 2.360	$1.04	3.40
Nov	2020	2.409	$ 0.025	$ 2.434	$1.04	3.47
Dec	2020	2.578	$ 0.034	$ 2.612	$1.04	3.65
Jan	2021	2.700	$ 0.038	$ 2.738	$1.05	3.78
Feb	2021	2.661	$ 0.033	$ 2.694	$1.04	3.74
Mar	2021	2.548	$ (0.015)	$ 2.533	$1.04	3.57
Apr	2021	2.284	$ (0.021)	$ 2.263	$1.03	3.30
May	2021	2.260	$ 0.005	$ 2.265	$1.03	3.30
Jun	2021	2.294	$ 0.025	$ 2.319	$1.04	3.35
Jul	2021	2.332	$ 0.047	$ 2.379	$1.04	3.42
Aug	2021	2.339	$ 0.058	$ 2.397	$1.04	3.43
Sep	2021	2.328	$ 0.011	$ 2.339	$1.04	3.37
Oct	2021	2.354	$ 0.018	$ 2.372	$1.04	3.41
Nov	2021	2.424	$ 0.027	$ 2.451	$1.04	3.49
Dec	2021	2.603	$ 0.038	$ 2.641	$1.04	3.68
Jan	2022	2.729	$ 0.041	$ 2.770	$1.05	3.82
Feb	2022	2.702	$ 0.036	$ 2.738	$1.05	3.78
Mar	2022	2.595	$ (0.013)	$ 2.582	$1.04	3.62
Apr	2022	2.340	$ (0.016)	$ 2.324	$1.04	3.36
May	2022	2.324	$ 0.007	$ 2.331	$1.04	3.37
Jun	2022	2.359	$ 0.034	$ 2.393	$1.04	3.43
Jul	2022	2.399	$ 0.059	$ 2.458	$1.04	3.50
Aug	2022	2.411	$ 0.066	$ 2.477	$1.04	3.52
Sep	2022	2.404	$ 0.021	$ 2.425	$1.04	3.46
Oct	2022	2.430	$ 0.024	$ 2.454	$1.04	3.49
Nov	2022	2.492	$ 0.034	$ 2.526	$1.04	3.57
Dec	2022	2.674	$ 0.044	$ 2.718	$1.05	3.76
Jan	2023	2.799	$ 0.052	$ 2.851	$1.05	3.90
Feb	2023	2.767	$ 0.047	$ 2.814	$1.05	3.86
Mar	2023	2.656	$ (0.003)	$ 2.653	$1.04	3.70
Apr	2023	2.401	$ (0.008)	$ 2.393	$1.04	3.43
May	2023	2.385	$ 0.016	$ 2.401	$1.04	3.44
Jun	2023	2.426	$ 0.042	$ 2.468	$1.04	3.51
Jul	2023	2.466	$ 0.068	$ 2.534	$1.04	3.57
Aug	2023	2.481	$ 0.076	$ 2.557	$1.04	3.60
Sep	2023	2.476	$ 0.029	$ 2.505	$1.04	3.55
Oct	2023	2.505	$ 0.030	$ 2.535	$1.04	3.58
Nov	2023	2.580	$ 0.037	$ 2.617	$1.04	3.66
Dec	2023	2.760	$ 0.053	$ 2.813	$1.05	3.86
Jan	2024	2.889	$ 0.058	$ 2.947	$1.05	4.00
Feb	2024	2.866	$ 0.050	$ 2.915	$1.05	3.97
Mar	2024	2.760	$ (0.002)	$ 2.758	$1.05	3.80

FGT - IT			
Current Yr	2019	√	DJ 10/11
Fuel Retention	2.44%	√	DJ 10/11
100%-B	97.56%		
Total Variable	0.9775		
Esc%	100.00%	√	DJ 10/11
Variable			
Usage Rate	0.9398	√	DJ 10/11
ACA	0.0013	√	DJ 10/11
UFS	0.0364	√	DJ 10/11
Total Variable	0.9775		

Apr	2024	2.534	$ (0.007)	$	2.527	$1.04	3.57
May	2024	2.531	$ 0.017	$	2.548	$1.04	3.59
Jun	2024	2.573	$ 0.046	$	2.619	$1.04	3.66
Jul	2024	2.623	$ 0.077	$	2.700	$1.05	3.75
Aug	2024	2.644	$ 0.077	$	2.722	$1.05	3.77
Sep	2024	2.646	$ 0.047	$	2.693	$1.04	3.74
Oct	2024	2.672	$ 0.040	$	2.713	$1.05	3.76
Nov	2024	2.758	$ 0.044	$	2.802	$1.05	3.85
Dec	2024	2.940	$ 0.056	$	2.996	$1.05	4.05
Jan	2025	3.054	$ 0.061	$	3.115	$1.06	4.17
Feb	2025	3.048	$ 0.055	$	3.103	$1.06	4.16
Mar	2025	2.970	$ (0.001)	$	2.969	$1.05	4.02
Apr	2025	2.799	$ (0.011)	$	2.789	$1.05	3.84
May	2025	2.811	$ 0.016	$	2.826	$1.05	3.87
Jun	2025	2.854	$ 0.054	$	2.908	$1.05	3.96
Jul	2025	2.948	$ 0.078	$	3.027	$1.05	4.08
Aug	2025	2.980	$ 0.078	$	3.058	$1.05	4.11
Sep	2025	2.883	$ 0.045	$	2.928	$1.05	3.98
Oct	2025	2.903	$ 0.035	$	2.938	$1.05	3.99
Nov	2025	2.990	$ 0.036	$	3.026	$1.05	4.08
Dec	2025	3.163	$ 0.051	$	3.214	$1.06	4.27
Jan	2026	3.255	$ 0.057	$	3.311	$1.06	4.37
Feb	2026	3.255	$ 0.053	$	3.308	$1.06	4.37
Mar	2026	3.176	$ (0.003)	$	3.172	$1.06	4.23
Apr	2026	3.042	$ (0.001)	$	3.041	$1.05	4.09
May	2026	3.061	$ 0.022	$	3.083	$1.05	4.14
Jun	2026	3.116	$ 0.053	$	3.169	$1.06	4.23
Jul	2026	3.276	$ 0.077	$	3.353	$1.06	4.41
Aug	2026	3.318	$ 0.078	$	3.396	$1.06	4.46
Sep	2026	3.252	$ 0.041	$	3.293	$1.06	4.35
Oct	2026	3.247	$ 0.034	$	3.280	$1.06	4.34
Nov	2026	3.322	$ 0.042	$	3.364	$1.06	4.43
Dec	2026	3.506	$ 0.054	$	3.559	$1.07	4.63
Jan	2027	3.583	$ 0.062	$	3.645	$1.07	4.71
Feb	2027	3.604	$ 0.057	$	3.661	$1.07	4.73
Mar	2027	3.551	$ (0.002)	$	3.549	$1.07	4.62
Apr	2027	3.396	$ (0.002)	$	3.394	$1.06	4.46
May	2027	3.424	$ 0.021	$	3.445	$1.06	4.51
Jun	2027	3.498	$ 0.051	$	3.549	$1.07	4.62
Jul	2027	3.731	$ 0.079	$	3.809	$1.07	4.88
Aug	2027	3.778	$ 0.082	$	3.860	$1.07	4.93
Sep	2027	3.768	$ 0.043	$	3.812	$1.07	4.88
Oct	2027	3.651	$ 0.038	$	3.690	$1.07	4.76
Nov	2027	3.730	$ 0.043	$	3.773	$1.07	4.84
Dec	2027	3.930	$ 0.054	$	3.984	$1.08	5.06
Jan	2028	3.993	$ 0.063	$	4.056	$1.08	5.13
Feb	2028	4.025	$ 0.047	$	4.072	$1.08	5.15
Mar	2028	3.948	$ (0.002)	$	3.946	$1.08	5.02
Apr	2028	3.907	$ (0.006)	$	3.900	$1.08	4.98
May	2028	3.947	$ 0.024	$	3.971	$1.08	5.05
Jun	2028	4.139	$ 0.059	$	4.198	$1.08	5.28
Jul	2028	4.159	$ 0.091	$	4.250	$1.08	5.33
Aug	2028	4.214	$ 0.089	$	4.304	$1.09	5.39
Sep	2028	4.278	$ 0.048	$	4.325	$1.09	5.41
Oct	2028	4.263	$ 0.044	$	4.307	$1.09	5.39
Nov	2028	4.329	$ 0.046	$	4.375	$1.09	5.46
Dec	2028	4.599	$ 0.054	$	4.653	$1.09	5.75
Jan	2029	4.640	$ 0.075	$	4.716	$1.10	5.81
Feb	2029	4.669	$ 0.068	$	4.737	$1.10	5.83
Mar	2029	4.455	$ 0.007	$	4.462	$1.09	5.55
Apr	2029	4.470	$ 0.002	$	4.472	$1.09	5.56
May	2029	4.534	$ 0.027	$	4.561	$1.09	5.65
Jun	2029	4.657	$ 0.062	$	4.719	$1.10	5.81
Jul	2029	4.385	$ 0.091	$	4.476	$1.09	5.57
Aug	2029	4.417	$ 0.098	$	4.516	$1.09	5.61
Sep	2029	4.535	$ 0.053	$	4.588	$1.09	5.68
Oct	2029	4.525	$ 0.040	$	4.565	$1.09	5.66
Nov	2029	4.430	$ 0.063	$	4.492	$1.09	5.58
Dec	2029	4.634	$ 0.062	$	4.696	$1.09	5.79

Jan	2030	4.665	$ 0.075	$	4.740	$1.10	5.84
Feb	2030	4.694	$ 0.069	$	4.763	$1.10	5.86
Mar	2030	4.583	$ 0.004	$	4.587	$1.09	5.68
Apr	2030	4.550	$ (0.008)	$	4.543	$1.09	5.63
May	2030	4.578	$ 0.029	$	4.607	$1.09	5.70
Jun	2030	4.653	$ 0.069	$	4.721	$1.10	5.82
Jul	2030	4.983	$ 0.104	$	5.086	$1.10	6.19
Aug	2030	5.019	$ 0.113	$	5.132	$1.11	6.24
Sep	2030	4.946	$ 0.056	$	5.002	$1.10	6.10
Oct	2030	4.722	$ 0.053	$	4.775	$1.10	5.87
Nov	2030	4.635	$ 0.056	$	4.692	$1.09	5.79
Dec	2030	4.861	$ 0.064	$	4.925	$1.10	6.03
Jan	2031	4.892	$ 0.098	$	4.989	$1.10	6.09
Feb	2031	4.922	$ 0.092	$	5.015	$1.10	6.12
Mar	2031	4.825	$ 0.019	$	4.845	$1.10	5.94
Apr	2031	4.785	$ 0.000	$	4.785	$1.10	5.88
May	2031	4.814	$ 0.055	$	4.869	$1.10	5.97
Jun	2031	4.879	$ 0.082	$	4.962	$1.10	6.06
Jul	2031	5.209	$ 0.116	$	5.325	$1.11	6.44
Aug	2031	5.261	$ 0.139	$	5.400	$1.11	6.51
Sep	2031	5.164	$ 0.086	$	5.250	$1.11	6.36
Oct	2031	5.003	$ 0.082	$	5.085	$1.10	6.19
Nov	2031	5.073	$ 0.066	$	5.139	$1.11	6.25
Dec	2031	5.249	$ 0.082	$	5.330	$1.11	6.44
Jan	2032	5.281	$ 0.106	$	5.388	$1.11	6.50
Feb	2032	5.310	$ 0.077	$	5.387	$1.11	6.50
Mar	2032	5.289	$ 0.050	$	5.339	$1.11	6.45
Apr	2032	5.127	$ 0.026	$	5.153	$1.11	6.26
May	2032	5.155	$ 0.069	$	5.224	$1.11	6.33
Jun	2032	5.188	$ 0.095	$	5.283	$1.11	6.39
Jul	2032	5.333	$ 0.136	$	5.469	$1.11	6.58
Aug	2032	5.378	$ 0.159	$	5.538	$1.12	6.65
Sep	2032	5.301	$ 0.091	$	5.392	$1.11	6.50
Oct	2032	5.266	$ 0.088	$	5.355	$1.11	6.47
Nov	2032	5.389	$ 0.053	$	5.443	$1.11	6.56
Dec	2032	5.402	$ 0.072	$	5.475	$1.11	6.59
Jan	2033	5.137	$ 0.093	$	5.230	$1.11	6.34
Feb	2033	5.172	$ 0.091	$	5.263	$1.11	6.37
Mar	2033	5.121	$ 0.022	$	5.143	$1.11	6.25
Apr	2033	5.120	$ 0.016	$	5.136	$1.11	6.24
May	2033	5.153	$ 0.032	$	5.185	$1.11	6.29
Jun	2033	5.189	$ 0.080	$	5.269	$1.11	6.38
Jul	2033	5.348	$ 0.119	$	5.467	$1.11	6.58
Aug	2033	5.395	$ 0.127	$	5.522	$1.12	6.64
Sep	2033	5.324	$ 0.068	$	5.393	$1.11	6.51
Oct	2033	5.275	$ 0.053	$	5.328	$1.11	6.44
Nov	2033	5.430	$ 0.033	$	5.463	$1.11	6.58
Dec	2033	5.620	$ 0.047	$	5.668	$1.12	6.79
Jan	2034	5.658	$ 0.080	$	5.738	$1.12	6.86
Feb	2034	5.495	$ 0.056	$	5.550	$1.12	6.67
Mar	2034	5.336	$ (0.008)	$	5.328	$1.11	6.44
Apr	2034	5.273	$ 0.009	$	5.282	$1.11	6.39
May	2034	5.307	$ 0.039	$	5.346	$1.11	6.46
Jun	2034	5.342	$ 0.084	$	5.426	$1.11	6.54
Jul	2034	5.598	$ 0.125	$	5.723	$1.12	6.84
Aug	2034	5.641	$ 0.144	$	5.785	$1.12	6.91
Sep	2034	5.534	$ 0.074	$	5.608	$1.12	6.73
Oct	2034	5.398	$ 0.049	$	5.447	$1.11	6.56
Nov	2034	5.631	$ 0.034	$	5.665	$1.12	6.78
Dec	2034	5.829	$ 0.055	$	5.884	$1.12	7.01
Jan	2035	5.870	$ 0.086	$	5.956	$1.13	7.08
Feb	2035	5.900	$ 0.065	$	5.965	$1.13	7.09
Mar	2035	5.720	$ 0.018	$	5.739	$1.12	6.86
Apr	2035	5.462	$ 0.023	$	5.485	$1.11	6.60
May	2035	5.496	$ 0.046	$	5.542	$1.12	6.66
Jun	2035	5.531	$ 0.091	$	5.623	$1.12	6.74
Jul	2035	5.817	$ 0.130	$	5.947	$1.13	7.07
Aug	2035	5.854	$ 0.147	$	6.001	$1.13	7.13
Sep	2035	5.756	$ 0.075	$	5.831	$1.12	6.95

Oct	2035	5.608	$	0.048	$	5.656	$1.12	6.77
Nov	2035	5.657	$	0.033	$	5.690	$1.12	6.81
Dec	2035	5.813	$	0.058	$	5.872	$1.12	7.00
Jan	2036	5.851	$	0.093	$	5.944	$1.13	7.07
Feb	2036	5.876	$	0.034	$	5.911	$1.13	7.04
Mar	2036	5.778	$	0.020	$	5.798	$1.12	6.92
Apr	2036	5.552	$	0.023	$	5.575	$1.12	6.69
May	2036	5.586	$	0.049	$	5.636	$1.12	6.75
Jun	2036	5.627	$	0.096	$	5.723	$1.12	6.84
Jul	2036	5.794	$	0.135	$	5.929	$1.13	7.05
Aug	2036	5.835	$	0.150	$	5.985	$1.13	7.11
Sep	2036	5.807	$	0.089	$	5.896	$1.12	7.02
Oct	2036	5.768	$	0.076	$	5.844	$1.12	6.97
Nov	2036	5.846	$	0.051	$	5.897	$1.12	7.02
Dec	2036	6.113	$	0.064	$	6.177	$1.13	7.31
Jan	2037	6.160	$	0.105	$	6.266	$1.13	7.40
Feb	2037	6.199	$	0.081	$	6.281	$1.13	7.42
Mar	2037	6.107	$	0.024	$	6.132	$1.13	7.26
Apr	2037	5.931	$	0.021	$	5.952	$1.13	7.08
May	2037	5.968	$	0.055	$	6.023	$1.13	7.15
Jun	2037	6.027	$	0.111	$	6.138	$1.13	7.27
Jul	2037	6.286	$	0.147	$	6.433	$1.14	7.57
Aug	2037	6.327	$	0.147	$	6.474	$1.14	7.61
Sep	2037	6.240	$	0.096	$	6.336	$1.14	7.47
Oct	2037	6.172	$	0.074	$	6.246	$1.13	7.38
Nov	2037	6.250	$	0.052	$	6.302	$1.14	7.44
Dec	2037	6.511	$	0.078	$	6.589	$1.14	7.73
Jan	2038	6.552	$	0.111	$	6.663	$1.14	7.81
Feb	2038	6.592	$	0.088	$	6.681	$1.14	7.83
Mar	2038	6.491	$	0.026	$	6.517	$1.14	7.66
Apr	2038	6.270	$	0.044	$	6.314	$1.14	7.45
May	2038	6.308	$	0.060	$	6.369	$1.14	7.51
Jun	2038	6.354	$	0.118	$	6.472	$1.14	7.61
Jul	2038	6.534	$	0.152	$	6.686	$1.14	7.83
Aug	2038	6.580	$	0.145	$	6.725	$1.15	7.87
Sep	2038	6.432	$	0.104	$	6.536	$1.14	7.68
Oct	2038	6.367	$	0.064	$	6.431	$1.14	7.57
Nov	2038	6.473	$	0.073	$	6.546	$1.14	7.69
Dec	2038	6.705	$	0.100	$	6.805	$1.15	7.95
Jan	2039	6.748	$	0.119	$	6.866	$1.15	8.02
Feb	2039	6.789	$	0.101	$	6.891	$1.15	8.04
Mar	2039	6.627	$	0.032	$	6.660	$1.14	7.80
Apr	2039	6.202	$	0.041	$	6.243	$1.13	7.38
May	2039	6.237	$	0.052	$	6.290	$1.13	7.42
Jun	2039	6.278	$	0.115	$	6.392	$1.14	7.53
Jul	2039	6.341	$	0.129	$	6.470	$1.14	7.61
Aug	2039	6.890	$	0.145	$	7.035	$1.15	8.19
Sep	2039	6.860	$	0.088	$	6.948	$1.15	8.10
Oct	2039	6.605	$	0.081	$	6.686	$1.14	7.83
Nov	2039	6.680	$	0.063	$	6.743	$1.15	7.89
Dec	2039	6.885	$	0.087	$	6.971	$1.15	8.12
Jan	2040	6.925	$	0.098	$	7.023	$1.15	8.18
Feb	2040	6.962	$	0.061	$	7.022	$1.15	8.18
Mar	2040	6.849	$	0.033	$	6.882	$1.15	8.03
Apr	2040	6.622	$	0.013	$	6.635	$1.14	7.78
May	2040	6.660	$	0.058	$	6.718	$1.15	7.86
Jun	2040	6.717	$	0.108	$	6.824	$1.15	7.97
Jul	2040	6.962	$	0.144	$	7.107	$1.16	8.26
Aug	2040	7.005	$	0.155	$	7.160	$1.16	8.32
Sep	2040	6.991	$	0.098	$	7.089	$1.15	8.24
Oct	2040	6.835	$	0.086	$	6.921	$1.15	8.07
Nov	2040	6.907	$	0.069	$	6.976	$1.15	8.13
Dec	2040	7.143	$	0.111	$	7.255	$1.16	8.41
Jan	2041	7.186	$	0.113	$	7.298	$1.16	8.46
Feb	2041	7.213	$	0.083	$	7.296	$1.16	8.46
Mar	2041	7.060	$	0.037	$	7.097	$1.15	8.25
Apr	2041	6.802	$	0.048	$	6.850	$1.15	8.00
May	2041	6.844	$	0.061	$	6.905	$1.15	8.06
Jun	2041	6.917	$	0.124	$	7.041	$1.15	8.19

Jul	2041	7.221	$ 0.166	$ 7.387	$1.16	8.55	
Aug	2041	7.264	$ 0.158	$ 7.421	$1.16	8.58	
Sep	2041	7.266	$ 0.116	$ 7.382	$1.16	8.54	
Oct	2041	7.027	$ 0.061	$ 7.088	$1.15	8.24	
Nov	2041	7.157	$ 0.077	$ 7.234	$1.16	8.39	
Dec	2041	7.359	$ 0.127	$ 7.486	$1.16	8.65	
Jan	2042	7.402	$ 0.120	$ 7.523	$1.17	8.69	
Feb	2042	7.433	$ 0.089	$ 7.522	$1.17	8.69	
Mar	2042	7.276	$ 0.033	$ 7.309	$1.16	8.47	
Apr	2042	7.072	$ 0.045	$ 7.117	$1.16	8.27	
May	2042	7.115	$ 0.063	$ 7.179	$1.16	8.34	
Jun	2042	7.185	$ 0.134	$ 7.319	$1.16	8.48	
Jul	2042	7.551	$ 0.168	$ 7.719	$1.17	8.89	
Aug	2042	7.599	$ 0.171	$ 7.770	$1.17	8.94	
Sep	2042	7.574	$ 0.120	$ 7.694	$1.17	8.86	
Oct	2042	7.314	$ 0.080	$ 7.394	$1.16	8.56	
Nov	2042	7.355	$ 0.075	$ 7.429	$1.16	8.59	
Dec	2042	7.587	$ 0.102	$ 7.689	$1.17	8.86	
Jan	2043	7.632	$ 0.105	$ 7.737	$1.17	8.91	
Feb	2043	7.656	$ 0.058	$ 7.715	$1.17	8.89	
Mar	2043	7.507	$ 0.035	$ 7.542	$1.17	8.71	
Apr	2043	7.246	$ 0.028	$ 7.275	$1.16	8.43	
May	2043	7.291	$ 0.050	$ 7.341	$1.16	8.50	
Jun	2043	7.346	$ 0.106	$ 7.452	$1.16	8.62	
Jul	2043	7.705	$ 0.164	$ 7.869	$1.17	9.04	
Aug	2043	7.751	$ 0.156	$ 7.907	$1.18	9.08	
Sep	2043	7.776	$ 0.091	$ 7.866	$1.17	9.04	
Oct	2043	7.486	$ 0.077	$ 7.562	$1.17	8.73	
Nov	2043	7.551	$ 0.066	$ 7.617	$1.17	8.79	
Dec	2043	7.795	$ 0.097	$ 7.892	$1.17	9.07	
Jan	2044	7.843	$ 0.099	$ 7.942	$1.18	9.12	
Feb	2044	7.877	$ 0.059	$ 7.936	$1.18	9.11	
Mar	2044	7.712	$ 0.025	$ 7.737	$1.17	8.91	
Apr	2044	7.571	$ 0.029	$ 7.600	$1.17	8.77	
May	2044	7.615	$ 0.040	$ 7.655	$1.17	8.82	
Jun	2044	7.661	$ 0.105	$ 7.766	$1.17	8.94	
Jul	2044	8.012	$ 0.160	$ 8.173	$1.18	9.35	
Aug	2044	8.062	$ 0.162	$ 8.224	$1.18	9.41	
Sep	2044	8.047	$ 0.080	$ 8.127	$1.18	9.31	
Oct	2044	7.844	$ 0.045	$ 7.889	$1.17	9.06	
Nov	2044	7.965	$ 0.060	$ 8.025	$1.18	9.20	
Dec	2044	8.212	$ 0.099	$ 8.311	$1.19	9.50	
Jan	2045	8.261	$ 0.107	$ 8.368	$1.19	9.55	
Feb	2045	8.310	$ 0.056	$ 8.366	$1.19	9.55	
Mar	2045	8.177	$ 0.031	$ 8.208	$1.18	9.39	
Apr	2045	7.989	$ 0.026	$ 8.015	$1.18	9.19	
May	2045	8.031	$ 0.042	$ 8.072	$1.18	9.25	
Jun	2045	8.080	$ 0.109	$ 8.189	$1.18	9.37	
Jul	2045	8.453	$ 0.157	$ 8.610	$1.19	9.80	
Aug	2045	8.506	$ 0.169	$ 8.676	$1.19	9.87	
Sep	2045	8.521	$ 0.085	$ 8.606	$1.19	9.80	
Oct	2045	8.268	$ 0.062	$ 8.331	$1.19	9.52	
Nov	2045	8.402	$ 0.062	$ 8.464	$1.19	9.65	
Dec	2045	8.652	$ 0.096	$ 8.748	$1.20	9.94	
Jan	2046	8.703	$ 0.115	$ 8.818	$1.20	10.02	
Feb	2046	8.730	$ 0.062	$ 8.792	$1.20	9.99	
Mar	2046	8.526	$ 0.022	$ 8.549	$1.19	9.74	
Apr	2046	8.288	$ 0.018	$ 8.306	$1.19	9.49	
May	2046	8.324	$ 0.043	$ 8.368	$1.19	9.55	
Jun	2046	8.374	$ 0.110	$ 8.484	$1.19	9.67	
Jul	2046	8.801	$ 0.158	$ 8.959	$1.20	10.16	
Aug	2046	8.857	$ 0.176	$ 9.033	$1.20	10.24	
Sep	2046	8.828	$ 0.081	$ 8.909	$1.20	10.11	
Oct	2046	8.549	$ 0.062	$ 8.611	$1.19	9.80	
Nov	2046	8.628	$ 0.064	$ 8.692	$1.19	9.89	
Dec	2046	8.854	$ 0.103	$ 8.957	$1.20	10.16	
Jan	2047	8.906	$ 0.126	$ 9.032	$1.20	10.24	
Feb	2047	8.921	$ 0.058	$ 8.979	$1.20	10.18	
Mar	2047	8.604	$ 0.019	$ 8.622	$1.19	9.82	

Apr	2047	8.403	$	0.022	$	8.425	$1.19	9.61
May	2047	8.437	$	0.039	$	8.476	$1.19	9.67
Jun	2047	8.486	$	0.123	$	8.610	$1.19	9.80
Jul	2047	8.902	$	0.165	$	9.067	$1.20	10.27
Aug	2047	8.958	$	0.182	$	9.140	$1.21	10.35
Sep	2047	8.954	$	0.088	$	9.042	$1.20	10.25
Oct	2047	8.794	$	0.052	$	8.846	$1.20	10.04
Nov	2047	8.872	$	0.052	$	8.924	$1.20	10.12
Dec	2047	8.907	$	0.093	$	9.001	$1.20	10.20
Jan	2048	8.959	$	0.109	$	9.068	$1.20	10.27
Feb	2048	9.002	$	0.036	$	9.038	$1.20	10.24
Mar	2048	8.799	$	0.007	$	8.806	$1.20	10.00
Apr	2048	8.672	$	0.022	$	8.694	$1.19	9.89
May	2048	8.721	$	0.032	$	8.753	$1.20	9.95
Jun	2048	8.811	$	0.099	$	8.910	$1.20	10.11
Jul	2048	9.345	$	0.136	$	9.480	$1.21	10.69
Aug	2048	9.410	$	0.181	$	9.591	$1.22	10.81
Sep	2048	9.428	$	0.072	$	9.500	$1.22	10.72
Oct	2048	9.043	$	0.058	$	9.101	$1.21	10.31
Nov	2048	9.185	$	0.046	$	9.231	$1.21	10.44
Dec	2048	9.448	$	0.061	$	9.509	$1.22	10.72
Jan	2049	9.502	$	0.085	$	9.587	$1.22	10.80
Feb	2049	9.512	$	0.031	$	9.544	$1.22	10.76
Mar	2049	9.452	$	0.007	$	9.458	$1.21	10.67
Apr	2049	9.346	$	0.019	$	9.365	$1.21	10.58
May	2049	8.991	$	0.033	$	9.023	$1.20	10.23
Jun	2049	9.041	$	0.089	$	9.130	$1.21	10.34
Jul	2049	9.257	$	0.124	$	9.381	$1.21	10.59
Aug	2049	9.309	$	0.151	$	9.460	$1.21	10.67
Sep	2049	9.142	$	0.071	$	9.214	$1.21	10.42
Oct	2049	8.977	$	0.058	$	9.035	$1.20	10.24
Nov	2049	9.324	$	0.046	$	9.370	$1.21	10.58
Dec	2049	9.702	$	0.062	$	9.764	$1.22	10.99
Jan	2050	9.755	$	0.086	$	9.841	$1.22	11.06
Feb	2050	9.783	$	0.033	$	9.816	$1.22	11.04
Mar	2050	9.486	$	0.006	$	9.492	$1.21	10.71
Apr	2050	9.015	$	0.023	$	9.038	$1.20	10.24
May	2050	9.058	$	0.032	$	9.090	$1.20	10.29
Jun	2050	9.108	$	0.097	$	9.204	$1.21	10.41
Jul	2050	9.393	$	0.124	$	9.517	$1.22	10.73
Aug	2050	9.450	$	0.158	$	9.608	$1.22	10.83
Sep	2050	9.423	$	0.072	$	9.496	$1.21	10.71
Oct	2050	9.119	$	0.063	$	9.182	$1.21	10.39
Nov	2050	9.368	$	0.047	$	9.416	$1.21	10.63
Dec	2050	9.683	$	0.065	$	9.748	$1.22	10.97

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	FGT MMBTU Variable Cost	FGT Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.046)	$ 3.064	$0.23	3.29
Feb	2019	2.690	$ (0.019)	$ 2.671	$0.22	2.89
Mar	2019	2.950	$ (0.003)	$ 2.947	$0.22	3.17
Apr	2019	2.650	$ (0.001)	$ 2.649	$0.21	2.86
May	2019	2.640	$ 0.005	$ 2.645	$0.21	2.86
Jun	2019	2.400	$ 0.037	$ 2.437	$0.21	2.65
Jul	2019	2.370	$ 0.048	$ 2.418	$0.21	2.63
Aug	2019	2.220	$ 0.056	$ 2.276	$0.21	2.48
Sep	2019	2.560	$ 0.016	$ 2.576	$0.21	2.79
Oct	2019	2.743	$ 0.010	$ 2.753	$0.22	2.97
Nov	2019	2.303	$ 0.012	$ 2.315	$0.21	2.52
Dec	2019	2.495	$ 0.023	$ 2.518	$0.21	2.73
Jan	2020	2.612	$ 0.035	$ 2.647	$0.21	2.86
Feb	2020	2.575	$ 0.024	$ 2.599	$0.21	2.81
Mar	2020	2.462	$ (0.020)	$ 2.442	$0.21	2.65
Apr	2020	2.247	$ (0.019)	$ 2.228	$0.20	2.43
May	2020	2.234	$ 0.005	$ 2.239	$0.20	2.44
Jun	2020	2.278	$ 0.026	$ 2.304	$0.21	2.51
Jul	2020	2.326	$ 0.048	$ 2.374	$0.21	2.58
Aug	2020	2.335	$ 0.055	$ 2.390	$0.21	2.60
Sep	2020	2.318	$ 0.012	$ 2.330	$0.21	2.54
Oct	2020	2.344	$ 0.016	$ 2.360	$0.21	2.57
Nov	2020	2.409	$ 0.025	$ 2.434	$0.21	2.64
Dec	2020	2.578	$ 0.034	$ 2.612	$0.21	2.83
Jan	2021	2.700	$ 0.038	$ 2.738	$0.22	2.96
Feb	2021	2.661	$ 0.033	$ 2.694	$0.22	2.91
Mar	2021	2.548	$ (0.015)	$ 2.533	$0.21	2.74
Apr	2021	2.284	$ (0.021)	$ 2.263	$0.21	2.47
May	2021	2.260	$ 0.005	$ 2.265	$0.21	2.47
Jun	2021	2.294	$ 0.025	$ 2.319	$0.21	2.53
Jul	2021	2.332	$ 0.047	$ 2.379	$0.21	2.59
Aug	2021	2.339	$ 0.058	$ 2.397	$0.21	2.61
Sep	2021	2.328	$ 0.011	$ 2.339	$0.21	2.55
Oct	2021	2.354	$ 0.018	$ 2.372	$0.21	2.58
Nov	2021	2.424	$ 0.027	$ 2.451	$0.21	2.66
Dec	2021	2.603	$ 0.038	$ 2.641	$0.21	2.86
Jan	2022	2.729	$ 0.041	$ 2.770	$0.22	2.99
Feb	2022	2.702	$ 0.036	$ 2.738	$0.22	2.96
Mar	2022	2.595	$ (0.013)	$ 2.582	$0.21	2.80
Apr	2022	2.340	$ (0.016)	$ 2.324	$0.21	2.53
May	2022	2.324	$ 0.007	$ 2.331	$0.21	2.54
Jun	2022	2.359	$ 0.034	$ 2.393	$0.21	2.60
Jul	2022	2.399	$ 0.059	$ 2.458	$0.21	2.67
Aug	2022	2.411	$ 0.066	$ 2.477	$0.21	2.69
Sep	2022	2.404	$ 0.021	$ 2.425	$0.21	2.63
Oct	2022	2.430	$ 0.024	$ 2.454	$0.21	2.66
Nov	2022	2.492	$ 0.034	$ 2.526	$0.21	2.74
Dec	2022	2.674	$ 0.044	$ 2.718	$0.22	2.93
Jan	2023	2.799	$ 0.052	$ 2.851	$0.22	3.07
Feb	2023	2.767	$ 0.047	$ 2.814	$0.22	3.03
Mar	2023	2.656	$ (0.003)	$ 2.653	$0.21	2.87
Apr	2023	2.401	$ (0.008)	$ 2.393	$0.21	2.60
May	2023	2.385	$ 0.016	$ 2.401	$0.21	2.61
Jun	2023	2.426	$ 0.042	$ 2.468	$0.21	2.68
Jul	2023	2.466	$ 0.068	$ 2.534	$0.21	2.75
Aug	2023	2.481	$ 0.076	$ 2.557	$0.21	2.77
Sep	2023	2.476	$ 0.029	$ 2.505	$0.21	2.72
Oct	2023	2.505	$ 0.030	$ 2.535	$0.21	2.75
Nov	2023	2.580	$ 0.037	$ 2.617	$0.21	2.83
Dec	2023	2.760	$ 0.053	$ 2.813	$0.22	3.03
Jan	2024	2.889	$ 0.058	$ 2.947	$0.22	3.17
Feb	2024	2.866	$ 0.050	$ 2.915	$0.22	3.14
Mar	2024	2.760	$ (0.002)	$ 2.758	$0.22	2.98
Apr	2024	2.534	$ (0.007)	$ 2.527	$0.21	2.74
May	2024	2.531	$ 0.017	$ 2.548	$0.21	2.76
Jun	2024	2.573	$ 0.046	$ 2.619	$0.21	2.83

FGT Firm - U of F			
Current Yr	2019	√	DJ 10/11
Fuel Retentior	2.44%		
100%-B	97.56%		
Total Variable	0.1486		
Esc%	100.00%	√	DJ 10/11
Variable			
FGT Firm - Usage Rate	0.0109		
ACA	0.0013		
UFS	0.0364		
U of F - Usage Rate	0.1000	√	DJ 10/11
Total Variable	0.1486		

Jul	2024	2.623	$ 0.077	$	2.700	$0.22	2.92
Aug	2024	2.644	$ 0.077	$	2.722	$0.22	2.94
Sep	2024	2.646	$ 0.047	$	2.693	$0.22	2.91
Oct	2024	2.672	$ 0.040	$	2.713	$0.22	2.93
Nov	2024	2.758	$ 0.044	$	2.802	$0.22	3.02
Dec	2024	2.940	$ 0.056	$	2.996	$0.22	3.22
Jan	2025	3.054	$ 0.061	$	3.115	$0.23	3.34
Feb	2025	3.048	$ 0.055	$	3.103	$0.23	3.33
Mar	2025	2.970	$ (0.001)	$	2.969	$0.22	3.19
Apr	2025	2.799	$ (0.011)	$	2.789	$0.22	3.01
May	2025	2.811	$ 0.016	$	2.826	$0.22	3.05
Jun	2025	2.854	$ 0.054	$	2.908	$0.22	3.13
Jul	2025	2.948	$ 0.078	$	3.027	$0.22	3.25
Aug	2025	2.980	$ 0.078	$	3.058	$0.23	3.28
Sep	2025	2.883	$ 0.045	$	2.928	$0.22	3.15
Oct	2025	2.903	$ 0.035	$	2.938	$0.22	3.16
Nov	2025	2.990	$ 0.036	$	3.026	$0.22	3.25
Dec	2025	3.163	$ 0.051	$	3.214	$0.23	3.44
Jan	2026	3.255	$ 0.057	$	3.311	$0.23	3.54
Feb	2026	3.255	$ 0.053	$	3.308	$0.23	3.54
Mar	2026	3.176	$ (0.003)	$	3.172	$0.23	3.40
Apr	2026	3.042	$ (0.001)	$	3.041	$0.22	3.27
May	2026	3.061	$ 0.022	$	3.083	$0.23	3.31
Jun	2026	3.116	$ 0.053	$	3.169	$0.23	3.40
Jul	2026	3.276	$ 0.077	$	3.353	$0.23	3.59
Aug	2026	3.318	$ 0.078	$	3.396	$0.23	3.63
Sep	2026	3.252	$ 0.041	$	3.293	$0.23	3.52
Oct	2026	3.247	$ 0.034	$	3.280	$0.23	3.51
Nov	2026	3.322	$ 0.042	$	3.364	$0.23	3.60
Dec	2026	3.506	$ 0.054	$	3.559	$0.24	3.80
Jan	2027	3.583	$ 0.062	$	3.645	$0.24	3.88
Feb	2027	3.604	$ 0.057	$	3.661	$0.24	3.90
Mar	2027	3.551	$ (0.002)	$	3.549	$0.24	3.79
Apr	2027	3.396	$ (0.002)	$	3.394	$0.23	3.63
May	2027	3.424	$ 0.021	$	3.445	$0.23	3.68
Jun	2027	3.498	$ 0.051	$	3.549	$0.24	3.79
Jul	2027	3.731	$ 0.079	$	3.809	$0.24	4.05
Aug	2027	3.778	$ 0.082	$	3.860	$0.25	4.11
Sep	2027	3.768	$ 0.043	$	3.812	$0.24	4.06
Oct	2027	3.651	$ 0.038	$	3.690	$0.24	3.93
Nov	2027	3.730	$ 0.043	$	3.773	$0.24	4.02
Dec	2027	3.930	$ 0.054	$	3.984	$0.25	4.23
Jan	2028	3.993	$ 0.063	$	4.056	$0.25	4.31
Feb	2028	4.025	$ 0.047	$	4.072	$0.25	4.32
Mar	2028	3.948	$ (0.002)	$	3.946	$0.25	4.19
Apr	2028	3.907	$ (0.006)	$	3.900	$0.25	4.15
May	2028	3.947	$ 0.024	$	3.971	$0.25	4.22
Jun	2028	4.139	$ 0.059	$	4.198	$0.25	4.45
Jul	2028	4.159	$ 0.091	$	4.250	$0.25	4.50
Aug	2028	4.214	$ 0.089	$	4.304	$0.26	4.56
Sep	2028	4.278	$ 0.048	$	4.325	$0.26	4.58
Oct	2028	4.263	$ 0.044	$	4.307	$0.26	4.56
Nov	2028	4.329	$ 0.046	$	4.375	$0.26	4.63
Dec	2028	4.599	$ 0.054	$	4.653	$0.26	4.92
Jan	2029	4.640	$ 0.075	$	4.716	$0.27	4.98
Feb	2029	4.669	$ 0.068	$	4.737	$0.27	5.00
Mar	2029	4.455	$ 0.007	$	4.462	$0.26	4.72
Apr	2029	4.470	$ 0.002	$	4.472	$0.26	4.73
May	2029	4.534	$ 0.027	$	4.561	$0.26	4.82
Jun	2029	4.657	$ 0.062	$	4.719	$0.27	4.99
Jul	2029	4.385	$ 0.091	$	4.476	$0.26	4.74
Aug	2029	4.417	$ 0.098	$	4.516	$0.26	4.78
Sep	2029	4.535	$ 0.053	$	4.588	$0.26	4.85
Oct	2029	4.525	$ 0.040	$	4.565	$0.26	4.83
Nov	2029	4.430	$ 0.063	$	4.492	$0.26	4.75
Dec	2029	4.634	$ 0.062	$	4.696	$0.27	4.96
Jan	2030	4.665	$ 0.075	$	4.740	$0.27	5.01
Feb	2030	4.694	$ 0.069	$	4.763	$0.27	5.03
Mar	2030	4.583	$ 0.004	$	4.587	$0.26	4.85
Apr	2030	4.550	$ (0.008)	$	4.543	$0.26	4.81
May	2030	4.578	$ 0.029	$	4.607	$0.26	4.87
Jun	2030	4.653	$ 0.069	$	4.721	$0.27	4.99
Jul	2030	4.983	$ 0.104	$	5.086	$0.28	5.36

Aug	2030	5.019	$	0.113	$	5.132	$0.28	5.41
Sep	2030	4.946	$	0.056	$	5.002	$0.27	5.28
Oct	2030	4.722	$	0.053	$	4.775	$0.27	5.04
Nov	2030	4.635	$	0.056	$	4.692	$0.27	4.96
Dec	2030	4.861	$	0.064	$	4.925	$0.27	5.20
Jan	2031	4.892	$	0.098	$	4.989	$0.27	5.26
Feb	2031	4.922	$	0.092	$	5.015	$0.27	5.29
Mar	2031	4.825	$	0.019	$	4.845	$0.27	5.11
Apr	2031	4.785	$	0.000	$	4.785	$0.27	5.05
May	2031	4.814	$	0.055	$	4.869	$0.27	5.14
Jun	2031	4.879	$	0.082	$	4.962	$0.27	5.23
Jul	2031	5.209	$	0.116	$	5.325	$0.28	5.61
Aug	2031	5.261	$	0.139	$	5.400	$0.28	5.68
Sep	2031	5.164	$	0.086	$	5.250	$0.28	5.53
Oct	2031	5.003	$	0.082	$	5.085	$0.28	5.36
Nov	2031	5.073	$	0.066	$	5.139	$0.28	5.42
Dec	2031	5.249	$	0.082	$	5.330	$0.28	5.61
Jan	2032	5.281	$	0.106	$	5.388	$0.28	5.67
Feb	2032	5.310	$	0.077	$	5.387	$0.28	5.67
Mar	2032	5.289	$	0.050	$	5.339	$0.28	5.62
Apr	2032	5.127	$	0.026	$	5.153	$0.28	5.43
May	2032	5.155	$	0.069	$	5.224	$0.28	5.50
Jun	2032	5.188	$	0.095	$	5.283	$0.28	5.56
Jul	2032	5.333	$	0.136	$	5.469	$0.29	5.75
Aug	2032	5.378	$	0.159	$	5.538	$0.29	5.83
Sep	2032	5.301	$	0.091	$	5.392	$0.28	5.68
Oct	2032	5.266	$	0.088	$	5.355	$0.28	5.64
Nov	2032	5.389	$	0.053	$	5.443	$0.28	5.73
Dec	2032	5.402	$	0.072	$	5.475	$0.29	5.76
Jan	2033	5.137	$	0.093	$	5.230	$0.28	5.51
Feb	2033	5.172	$	0.091	$	5.263	$0.28	5.54
Mar	2033	5.121	$	0.022	$	5.143	$0.28	5.42
Apr	2033	5.120	$	0.016	$	5.136	$0.28	5.41
May	2033	5.153	$	0.032	$	5.185	$0.28	5.46
Jun	2033	5.189	$	0.080	$	5.269	$0.28	5.55
Jul	2033	5.348	$	0.119	$	5.467	$0.29	5.75
Aug	2033	5.395	$	0.127	$	5.522	$0.29	5.81
Sep	2033	5.324	$	0.068	$	5.393	$0.28	5.68
Oct	2033	5.275	$	0.053	$	5.328	$0.28	5.61
Nov	2033	5.430	$	0.033	$	5.463	$0.29	5.75
Dec	2033	5.620	$	0.047	$	5.668	$0.29	5.96
Jan	2034	5.658	$	0.080	$	5.738	$0.29	6.03
Feb	2034	5.495	$	0.056	$	5.550	$0.29	5.84
Mar	2034	5.336	$	(0.008)	$	5.328	$0.28	5.61
Apr	2034	5.273	$	0.009	$	5.282	$0.28	5.56
May	2034	5.307	$	0.039	$	5.346	$0.28	5.63
Jun	2034	5.342	$	0.084	$	5.426	$0.28	5.71
Jul	2034	5.598	$	0.125	$	5.723	$0.29	6.01
Aug	2034	5.641	$	0.144	$	5.785	$0.29	6.08
Sep	2034	5.534	$	0.074	$	5.608	$0.29	5.90
Oct	2034	5.398	$	0.049	$	5.447	$0.28	5.73
Nov	2034	5.631	$	0.034	$	5.665	$0.29	5.96
Dec	2034	5.829	$	0.055	$	5.884	$0.30	6.18
Jan	2035	5.870	$	0.086	$	5.956	$0.30	6.25
Feb	2035	5.900	$	0.065	$	5.965	$0.30	6.26
Mar	2035	5.720	$	0.018	$	5.739	$0.29	6.03
Apr	2035	5.462	$	0.023	$	5.485	$0.29	5.77
May	2035	5.496	$	0.046	$	5.542	$0.29	5.83
Jun	2035	5.531	$	0.091	$	5.623	$0.29	5.91
Jul	2035	5.817	$	0.130	$	5.947	$0.30	6.24
Aug	2035	5.854	$	0.147	$	6.001	$0.30	6.30
Sep	2035	5.756	$	0.075	$	5.831	$0.29	6.13
Oct	2035	5.608	$	0.048	$	5.656	$0.29	5.95
Nov	2035	5.657	$	0.033	$	5.690	$0.29	5.98
Dec	2035	5.813	$	0.058	$	5.872	$0.30	6.17
Jan	2036	5.851	$	0.093	$	5.944	$0.30	6.24
Feb	2036	5.876	$	0.034	$	5.911	$0.30	6.21
Mar	2036	5.778	$	0.020	$	5.798	$0.29	6.09
Apr	2036	5.552	$	0.023	$	5.575	$0.29	5.86
May	2036	5.586	$	0.049	$	5.636	$0.29	5.93
Jun	2036	5.627	$	0.096	$	5.723	$0.29	6.01
Jul	2036	5.794	$	0.135	$	5.929	$0.30	6.23
Aug	2036	5.835	$	0.150	$	5.985	$0.30	6.28

Sep	2036	5.807	$	0.089	$	5.896	$0.30	6.19
Oct	2036	5.768	$	0.076	$	5.844	$0.29	6.14
Nov	2036	5.846	$	0.051	$	5.897	$0.30	6.19
Dec	2036	6.113	$	0.064	$	6.177	$0.30	6.48
Jan	2037	6.160	$	0.105	$	6.266	$0.31	6.57
Feb	2037	6.199	$	0.081	$	6.281	$0.31	6.59
Mar	2037	6.107	$	0.024	$	6.132	$0.30	6.43
Apr	2037	5.931	$	0.021	$	5.952	$0.30	6.25
May	2037	5.968	$	0.055	$	6.023	$0.30	6.32
Jun	2037	6.027	$	0.111	$	6.138	$0.30	6.44
Jul	2037	6.286	$	0.147	$	6.433	$0.31	6.74
Aug	2037	6.327	$	0.147	$	6.474	$0.31	6.78
Sep	2037	6.240	$	0.096	$	6.336	$0.31	6.64
Oct	2037	6.172	$	0.074	$	6.246	$0.30	6.55
Nov	2037	6.250	$	0.052	$	6.302	$0.31	6.61
Dec	2037	6.511	$	0.078	$	6.589	$0.31	6.90
Jan	2038	6.552	$	0.111	$	6.663	$0.32	6.98
Feb	2038	6.592	$	0.088	$	6.681	$0.32	7.00
Mar	2038	6.491	$	0.026	$	6.517	$0.31	6.83
Apr	2038	6.270	$	0.044	$	6.314	$0.31	6.62
May	2038	6.308	$	0.060	$	6.369	$0.31	6.68
Jun	2038	6.354	$	0.118	$	6.472	$0.31	6.78
Jul	2038	6.534	$	0.152	$	6.686	$0.32	7.00
Aug	2038	6.580	$	0.145	$	6.725	$0.32	7.04
Sep	2038	6.432	$	0.104	$	6.536	$0.31	6.85
Oct	2038	6.367	$	0.064	$	6.431	$0.31	6.74
Nov	2038	6.473	$	0.073	$	6.546	$0.31	6.86
Dec	2038	6.705	$	0.100	$	6.805	$0.32	7.12
Jan	2039	6.748	$	0.119	$	6.866	$0.32	7.19
Feb	2039	6.789	$	0.101	$	6.891	$0.32	7.21
Mar	2039	6.627	$	0.032	$	6.660	$0.32	6.98
Apr	2039	6.202	$	0.041	$	6.243	$0.30	6.55
May	2039	6.237	$	0.052	$	6.290	$0.31	6.60
Jun	2039	6.278	$	0.115	$	6.392	$0.31	6.70
Jul	2039	6.341	$	0.129	$	6.470	$0.31	6.78
Aug	2039	6.890	$	0.145	$	7.035	$0.32	7.36
Sep	2039	6.860	$	0.088	$	6.948	$0.32	7.27
Oct	2039	6.605	$	0.081	$	6.686	$0.32	7.00
Nov	2039	6.680	$	0.063	$	6.743	$0.32	7.06
Dec	2039	6.885	$	0.087	$	6.971	$0.32	7.29
Jan	2040	6.925	$	0.098	$	7.023	$0.32	7.35
Feb	2040	6.962	$	0.061	$	7.022	$0.32	7.35
Mar	2040	6.849	$	0.033	$	6.882	$0.32	7.20
Apr	2040	6.622	$	0.013	$	6.635	$0.31	6.95
May	2040	6.660	$	0.058	$	6.718	$0.32	7.03
Jun	2040	6.717	$	0.108	$	6.824	$0.32	7.14
Jul	2040	6.962	$	0.144	$	7.107	$0.33	7.43
Aug	2040	7.005	$	0.155	$	7.160	$0.33	7.49
Sep	2040	6.991	$	0.098	$	7.089	$0.33	7.41
Oct	2040	6.835	$	0.086	$	6.921	$0.32	7.24
Nov	2040	6.907	$	0.069	$	6.976	$0.32	7.30
Dec	2040	7.143	$	0.111	$	7.255	$0.33	7.59
Jan	2041	7.186	$	0.113	$	7.298	$0.33	7.63
Feb	2041	7.213	$	0.083	$	7.296	$0.33	7.63
Mar	2041	7.060	$	0.037	$	7.097	$0.33	7.42
Apr	2041	6.802	$	0.048	$	6.850	$0.32	7.17
May	2041	6.844	$	0.061	$	6.905	$0.32	7.23
Jun	2041	6.917	$	0.124	$	7.041	$0.32	7.37
Jul	2041	7.221	$	0.166	$	7.387	$0.33	7.72
Aug	2041	7.264	$	0.158	$	7.421	$0.33	7.76
Sep	2041	7.266	$	0.116	$	7.382	$0.33	7.72
Oct	2041	7.027	$	0.061	$	7.088	$0.33	7.41
Nov	2041	7.157	$	0.077	$	7.234	$0.33	7.56
Dec	2041	7.359	$	0.127	$	7.486	$0.34	7.82
Jan	2042	7.402	$	0.120	$	7.523	$0.34	7.86
Feb	2042	7.433	$	0.089	$	7.522	$0.34	7.86
Mar	2042	7.276	$	0.033	$	7.309	$0.33	7.64
Apr	2042	7.072	$	0.045	$	7.117	$0.33	7.44
May	2042	7.115	$	0.063	$	7.179	$0.33	7.51
Jun	2042	7.185	$	0.134	$	7.319	$0.33	7.65
Jul	2042	7.551	$	0.168	$	7.719	$0.34	8.06
Aug	2042	7.599	$	0.171	$	7.770	$0.34	8.11
Sep	2042	7.574	$	0.120	$	7.694	$0.34	8.04

Oct	2042	7.314	$	0.080	$	7.394	$0.33	7.73
Nov	2042	7.355	$	0.075	$	7.429	$0.33	7.76
Dec	2042	7.587	$	0.102	$	7.689	$0.34	8.03
Jan	2043	7.632	$	0.105	$	7.737	$0.34	8.08
Feb	2043	7.656	$	0.058	$	7.715	$0.34	8.06
Mar	2043	7.507	$	0.035	$	7.542	$0.34	7.88
Apr	2043	7.246	$	0.028	$	7.275	$0.33	7.61
May	2043	7.291	$	0.050	$	7.341	$0.33	7.67
Jun	2043	7.346	$	0.106	$	7.452	$0.33	7.79
Jul	2043	7.705	$	0.164	$	7.869	$0.35	8.21
Aug	2043	7.751	$	0.156	$	7.907	$0.35	8.25
Sep	2043	7.776	$	0.091	$	7.866	$0.35	8.21
Oct	2043	7.486	$	0.077	$	7.562	$0.34	7.90
Nov	2043	7.551	$	0.066	$	7.617	$0.34	7.96
Dec	2043	7.795	$	0.097	$	7.892	$0.35	8.24
Jan	2044	7.843	$	0.099	$	7.942	$0.35	8.29
Feb	2044	7.877	$	0.059	$	7.936	$0.35	8.28
Mar	2044	7.712	$	0.025	$	7.737	$0.34	8.08
Apr	2044	7.571	$	0.029	$	7.600	$0.34	7.94
May	2044	7.615	$	0.040	$	7.655	$0.34	8.00
Jun	2044	7.661	$	0.105	$	7.766	$0.34	8.11
Jul	2044	8.012	$	0.160	$	8.173	$0.35	8.53
Aug	2044	8.062	$	0.162	$	8.224	$0.35	8.58
Sep	2044	8.047	$	0.080	$	8.127	$0.35	8.48
Oct	2044	7.844	$	0.045	$	7.889	$0.35	8.23
Nov	2044	7.965	$	0.060	$	8.025	$0.35	8.37
Dec	2044	8.212	$	0.099	$	8.311	$0.36	8.67
Jan	2045	8.261	$	0.107	$	8.368	$0.36	8.73
Feb	2045	8.310	$	0.056	$	8.366	$0.36	8.72
Mar	2045	8.177	$	0.031	$	8.208	$0.35	8.56
Apr	2045	7.989	$	0.026	$	8.015	$0.35	8.36
May	2045	8.031	$	0.042	$	8.072	$0.35	8.42
Jun	2045	8.080	$	0.109	$	8.189	$0.35	8.54
Jul	2045	8.453	$	0.157	$	8.610	$0.36	8.97
Aug	2045	8.506	$	0.169	$	8.676	$0.37	9.04
Sep	2045	8.521	$	0.085	$	8.606	$0.36	8.97
Oct	2045	8.268	$	0.062	$	8.331	$0.36	8.69
Nov	2045	8.402	$	0.062	$	8.464	$0.36	8.82
Dec	2045	8.652	$	0.096	$	8.748	$0.37	9.12
Jan	2046	8.703	$	0.115	$	8.818	$0.37	9.19
Feb	2046	8.730	$	0.062	$	8.792	$0.37	9.16
Mar	2046	8.526	$	0.022	$	8.549	$0.36	8.91
Apr	2046	8.288	$	0.018	$	8.306	$0.36	8.66
May	2046	8.324	$	0.043	$	8.368	$0.36	8.73
Jun	2046	8.374	$	0.110	$	8.484	$0.36	8.84
Jul	2046	8.801	$	0.158	$	8.959	$0.37	9.33
Aug	2046	8.857	$	0.176	$	9.033	$0.37	9.41
Sep	2046	8.828	$	0.081	$	8.909	$0.37	9.28
Oct	2046	8.549	$	0.062	$	8.611	$0.36	8.97
Nov	2046	8.628	$	0.064	$	8.692	$0.37	9.06
Dec	2046	8.854	$	0.103	$	8.957	$0.37	9.33
Jan	2047	8.906	$	0.126	$	9.032	$0.37	9.41
Feb	2047	8.921	$	0.058	$	8.979	$0.37	9.35
Mar	2047	8.604	$	0.019	$	8.622	$0.36	8.99
Apr	2047	8.403	$	0.022	$	8.425	$0.36	8.78
May	2047	8.437	$	0.039	$	8.476	$0.36	8.84
Jun	2047	8.486	$	0.123	$	8.610	$0.36	8.97
Jul	2047	8.902	$	0.165	$	9.067	$0.38	9.44
Aug	2047	8.958	$	0.182	$	9.140	$0.38	9.52
Sep	2047	8.954	$	0.088	$	9.042	$0.37	9.42
Oct	2047	8.794	$	0.052	$	8.846	$0.37	9.22
Nov	2047	8.872	$	0.052	$	8.924	$0.37	9.30
Dec	2047	8.907	$	0.093	$	9.001	$0.37	9.37
Jan	2048	8.959	$	0.109	$	9.068	$0.38	9.44
Feb	2048	9.002	$	0.036	$	9.038	$0.37	9.41
Mar	2048	8.799	$	0.007	$	8.806	$0.37	9.17
Apr	2048	8.672	$	0.022	$	8.694	$0.37	9.06
May	2048	8.721	$	0.032	$	8.753	$0.37	9.12
Jun	2048	8.811	$	0.099	$	8.910	$0.37	9.28
Jul	2048	9.345	$	0.136	$	9.480	$0.39	9.87
Aug	2048	9.410	$	0.181	$	9.591	$0.39	9.98
Sep	2048	9.428	$	0.072	$	9.500	$0.39	9.89
Oct	2048	9.043	$	0.058	$	9.101	$0.38	9.48

Nov	2048	9.185	$	0.046	$	9.231	$0.38	9.61
Dec	2048	9.448	$	0.061	$	9.509	$0.39	9.90
Jan	2049	9.502	$	0.085	$	9.587	$0.39	9.98
Feb	2049	9.512	$	0.031	$	9.544	$0.39	9.93
Mar	2049	9.452	$	0.007	$	9.458	$0.39	9.84
Apr	2049	9.346	$	0.019	$	9.365	$0.38	9.75
May	2049	8.991	$	0.033	$	9.023	$0.37	9.40
Jun	2049	9.041	$	0.089	$	9.130	$0.38	9.51
Jul	2049	9.257	$	0.124	$	9.381	$0.38	9.76
Aug	2049	9.309	$	0.151	$	9.460	$0.39	9.85
Sep	2049	9.142	$	0.071	$	9.214	$0.38	9.59
Oct	2049	8.977	$	0.058	$	9.035	$0.37	9.41
Nov	2049	9.324	$	0.046	$	9.370	$0.38	9.75
Dec	2049	9.702	$	0.062	$	9.764	$0.39	10.16
Jan	2050	9.755	$	0.086	$	9.841	$0.39	10.24
Feb	2050	9.783	$	0.033	$	9.816	$0.39	10.21
Mar	2050	9.486	$	0.006	$	9.492	$0.39	9.88
Apr	2050	9.015	$	0.023	$	9.038	$0.37	9.41
May	2050	9.058	$	0.032	$	9.090	$0.38	9.47
Jun	2050	9.108	$	0.097	$	9.204	$0.38	9.58
Jul	2050	9.393	$	0.124	$	9.517	$0.39	9.90
Aug	2050	9.450	$	0.158	$	9.608	$0.39	10.00
Sep	2050	9.423	$	0.072	$	9.496	$0.39	9.88
Oct	2050	9.119	$	0.063	$	9.182	$0.38	9.56
Nov	2050	9.368	$	0.047	$	9.416	$0.38	9.80
Dec	2050	9.683	$	0.065	$	9.748	$0.39	10.14

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	GSNG MMBTU Variable Cost	GSNG Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.046)	$ 3.064	$0.08	3.14
Feb	2019	2.690	$ (0.019)	$ 2.671	$0.07	2.74
Mar	2019	2.950	$ (0.003)	$ 2.947	$0.08	3.02
Apr	2019	2.650	$ (0.001)	$ 2.649	$0.07	2.72
May	2019	2.640	$ 0.005	$ 2.645	$0.07	2.71
Jun	2019	2.400	$ 0.037	$ 2.437	$0.07	2.50
Jul	2019	2.370	$ 0.048	$ 2.418	$0.07	2.48
Aug	2019	2.220	$ 0.056	$ 2.276	$0.06	2.34
Sep	2019	2.560	$ 0.016	$ 2.576	$0.07	2.64
Oct	2019	2.743	$ 0.010	$ 2.753	$0.07	2.82
Nov	2019	2.303	$ 0.012	$ 2.315	$0.06	2.38
Dec	2019	2.495	$ 0.023	$ 2.518	$0.07	2.59
Jan	2020	2.612	$ 0.035	$ 2.647	$0.07	2.72
Feb	2020	2.575	$ 0.024	$ 2.599	$0.07	2.67
Mar	2020	2.462	$ (0.020)	$ 2.442	$0.07	2.51
Apr	2020	2.247	$ (0.019)	$ 2.228	$0.06	2.29
May	2020	2.234	$ 0.005	$ 2.239	$0.06	2.30
Jun	2020	2.278	$ 0.026	$ 2.304	$0.06	2.37
Jul	2020	2.326	$ 0.048	$ 2.374	$0.06	2.44
Aug	2020	2.335	$ 0.055	$ 2.390	$0.07	2.46
Sep	2020	2.318	$ 0.012	$ 2.330	$0.06	2.39
Oct	2020	2.344	$ 0.016	$ 2.360	$0.06	2.42
Nov	2020	2.409	$ 0.025	$ 2.434	$0.07	2.50
Dec	2020	2.578	$ 0.034	$ 2.612	$0.07	2.68
Jan	2021	2.700	$ 0.038	$ 2.738	$0.07	2.81
Feb	2021	2.661	$ 0.033	$ 2.694	$0.07	2.76
Mar	2021	2.548	$ (0.015)	$ 2.533	$0.07	2.60
Apr	2021	2.284	$ (0.021)	$ 2.263	$0.06	2.33
May	2021	2.260	$ 0.005	$ 2.265	$0.06	2.33
Jun	2021	2.294	$ 0.025	$ 2.319	$0.06	2.38
Jul	2021	2.332	$ 0.047	$ 2.379	$0.06	2.44
Aug	2021	2.339	$ 0.058	$ 2.397	$0.07	2.46
Sep	2021	2.328	$ 0.011	$ 2.339	$0.06	2.40
Oct	2021	2.354	$ 0.018	$ 2.372	$0.06	2.44
Nov	2021	2.424	$ 0.027	$ 2.451	$0.07	2.52
Dec	2021	2.603	$ 0.038	$ 2.641	$0.07	2.71
Jan	2022	2.729	$ 0.041	$ 2.770	$0.07	2.84
Feb	2022	2.702	$ 0.036	$ 2.738	$0.07	2.81
Mar	2022	2.595	$ (0.013)	$ 2.582	$0.07	2.65
Apr	2022	2.340	$ (0.016)	$ 2.324	$0.06	2.39
May	2022	2.324	$ 0.007	$ 2.331	$0.06	2.39
Jun	2022	2.359	$ 0.034	$ 2.393	$0.07	2.46
Jul	2022	2.399	$ 0.059	$ 2.458	$0.07	2.52
Aug	2022	2.411	$ 0.066	$ 2.477	$0.07	2.54
Sep	2022	2.404	$ 0.021	$ 2.425	$0.07	2.49
Oct	2022	2.430	$ 0.024	$ 2.454	$0.07	2.52
Nov	2022	2.492	$ 0.034	$ 2.526	$0.07	2.59
Dec	2022	2.674	$ 0.044	$ 2.718	$0.07	2.79
Jan	2023	2.799	$ 0.052	$ 2.851	$0.07	2.92
Feb	2023	2.767	$ 0.047	$ 2.814	$0.07	2.89
Mar	2023	2.656	$ (0.003)	$ 2.653	$0.07	2.72
Apr	2023	2.401	$ (0.008)	$ 2.393	$0.07	2.46
May	2023	2.385	$ 0.016	$ 2.401	$0.07	2.47
Jun	2023	2.426	$ 0.042	$ 2.468	$0.07	2.53
Jul	2023	2.466	$ 0.068	$ 2.534	$0.07	2.60
Aug	2023	2.481	$ 0.076	$ 2.557	$0.07	2.63
Sep	2023	2.476	$ 0.029	$ 2.505	$0.07	2.57
Oct	2023	2.505	$ 0.030	$ 2.535	$0.07	2.60
Nov	2023	2.580	$ 0.037	$ 2.617	$0.07	2.69
Dec	2023	2.760	$ 0.053	$ 2.813	$0.07	2.89
Jan	2024	2.889	$ 0.058	$ 2.947	$0.08	3.02
Feb	2024	2.866	$ 0.050	$ 2.915	$0.07	2.99
Mar	2024	2.760	$ (0.002)	$ 2.758	$0.07	2.83
Apr	2024	2.534	$ (0.007)	$ 2.527	$0.07	2.59
May	2024	2.531	$ 0.017	$ 2.548	$0.07	2.62
Jun	2024	2.573	$ 0.046	$ 2.619	$0.07	2.69
Jul	2024	2.623	$ 0.077	$ 2.700	$0.07	2.77
Aug	2024	2.644	$ 0.077	$ 2.722	$0.07	2.79
Sep	2024	2.646	$ 0.047	$ 2.693	$0.07	2.76
Oct	2024	2.672	$ 0.040	$ 2.713	$0.07	2.78
Nov	2024	2.758	$ 0.044	$ 2.802	$0.07	2.87
Dec	2024	2.940	$ 0.056	$ 2.996	$0.08	3.07
Jan	2025	3.054	$ 0.061	$ 3.115	$0.08	3.19
Feb	2025	3.048	$ 0.055	$ 3.103	$0.08	3.18
Mar	2025	2.970	$ (0.001)	$ 2.969	$0.08	3.04
Apr	2025	2.799	$ (0.011)	$ 2.789	$0.07	2.86
May	2025	2.811	$ 0.016	$ 2.826	$0.07	2.90
Jun	2025	2.854	$ 0.054	$ 2.908	$0.07	2.98

GSNG - Firm			
Current Yr	2019	√	DJ 10/11
Fuel Retention	1.85%	√	DJ 10/11
100%-B	98.15%		
Total Variable	0.0200		
Esc%	100.00%	√	DJ 10/11
Variable			
GSNG - Firm Variable	0.0200	√	DJ 10/11
UFS	0.0000	√	DJ 10/11
Total Variable	0.0200		

Jul	2025	2.948	$	0.078	$	3.027	$0.08	3.10
Aug	2025	2.980	$	0.078	$	3.058	$0.08	3.14
Sep	2025	2.883	$	0.045	$	2.928	$0.08	3.00
Oct	2025	2.903	$	0.035	$	2.938	$0.08	3.01
Nov	2025	2.990	$	0.036	$	3.026	$0.08	3.10
Dec	2025	3.163	$	0.051	$	3.214	$0.08	3.29
Jan	2026	3.255	$	0.057	$	3.311	$0.08	3.39
Feb	2026	3.255	$	0.053	$	3.308	$0.08	3.39
Mar	2026	3.176	$	(0.003)	$	3.172	$0.08	3.25
Apr	2026	3.042	$	(0.001)	$	3.041	$0.08	3.12
May	2026	3.061	$	0.022	$	3.083	$0.08	3.16
Jun	2026	3.116	$	0.053	$	3.169	$0.08	3.25
Jul	2026	3.276	$	0.077	$	3.353	$0.08	3.44
Aug	2026	3.318	$	0.078	$	3.396	$0.08	3.48
Sep	2026	3.252	$	0.041	$	3.293	$0.08	3.38
Oct	2026	3.247	$	0.034	$	3.280	$0.08	3.36
Nov	2026	3.322	$	0.042	$	3.364	$0.08	3.45
Dec	2026	3.506	$	0.054	$	3.559	$0.09	3.65
Jan	2027	3.583	$	0.062	$	3.645	$0.09	3.73
Feb	2027	3.604	$	0.057	$	3.661	$0.09	3.75
Mar	2027	3.551	$	(0.002)	$	3.549	$0.09	3.64
Apr	2027	3.396	$	(0.002)	$	3.394	$0.08	3.48
May	2027	3.424	$	0.021	$	3.445	$0.08	3.53
Jun	2027	3.498	$	0.051	$	3.549	$0.09	3.64
Jul	2027	3.731	$	0.079	$	3.809	$0.09	3.90
Aug	2027	3.778	$	0.082	$	3.860	$0.09	3.95
Sep	2027	3.768	$	0.043	$	3.812	$0.09	3.90
Oct	2027	3.651	$	0.038	$	3.690	$0.09	3.78
Nov	2027	3.730	$	0.043	$	3.773	$0.09	3.86
Dec	2027	3.930	$	0.054	$	3.984	$0.10	4.08
Jan	2028	3.993	$	0.063	$	4.056	$0.10	4.15
Feb	2028	4.025	$	0.047	$	4.072	$0.10	4.17
Mar	2028	3.948	$	(0.002)	$	3.946	$0.09	4.04
Apr	2028	3.907	$	(0.006)	$	3.900	$0.09	3.99
May	2028	3.947	$	0.024	$	3.971	$0.09	4.07
Jun	2028	4.139	$	0.059	$	4.198	$0.10	4.30
Jul	2028	4.159	$	0.091	$	4.250	$0.10	4.35
Aug	2028	4.214	$	0.089	$	4.304	$0.10	4.41
Sep	2028	4.278	$	0.048	$	4.325	$0.10	4.43
Oct	2028	4.263	$	0.044	$	4.307	$0.10	4.41
Nov	2028	4.329	$	0.046	$	4.375	$0.10	4.48
Dec	2028	4.599	$	0.054	$	4.653	$0.11	4.76
Jan	2029	4.640	$	0.075	$	4.716	$0.11	4.82
Feb	2029	4.669	$	0.068	$	4.737	$0.11	4.85
Mar	2029	4.455	$	0.007	$	4.462	$0.10	4.57
Apr	2029	4.470	$	0.002	$	4.472	$0.10	4.58
May	2029	4.534	$	0.027	$	4.561	$0.11	4.67
Jun	2029	4.657	$	0.062	$	4.719	$0.11	4.83
Jul	2029	4.385	$	0.091	$	4.476	$0.10	4.58
Aug	2029	4.417	$	0.098	$	4.516	$0.11	4.62
Sep	2029	4.535	$	0.053	$	4.588	$0.11	4.69
Oct	2029	4.525	$	0.040	$	4.565	$0.11	4.67
Nov	2029	4.430	$	0.063	$	4.492	$0.10	4.60
Dec	2029	4.634	$	0.062	$	4.696	$0.11	4.80
Jan	2030	4.665	$	0.075	$	4.740	$0.11	4.85
Feb	2030	4.694	$	0.069	$	4.763	$0.11	4.87
Mar	2030	4.583	$	0.004	$	4.587	$0.11	4.69
Apr	2030	4.550	$	(0.008)	$	4.543	$0.11	4.65
May	2030	4.578	$	0.029	$	4.607	$0.11	4.71
Jun	2030	4.653	$	0.069	$	4.721	$0.11	4.83
Jul	2030	4.983	$	0.104	$	5.086	$0.12	5.20
Aug	2030	5.019	$	0.113	$	5.132	$0.12	5.25
Sep	2030	4.946	$	0.056	$	5.002	$0.11	5.12
Oct	2030	4.722	$	0.053	$	4.775	$0.11	4.89
Nov	2030	4.635	$	0.056	$	4.692	$0.11	4.80
Dec	2030	4.861	$	0.064	$	4.925	$0.11	5.04
Jan	2031	4.892	$	0.098	$	4.989	$0.11	5.10
Feb	2031	4.922	$	0.092	$	5.015	$0.11	5.13
Mar	2031	4.825	$	0.019	$	4.845	$0.11	4.96
Apr	2031	4.785	$	0.000	$	4.785	$0.11	4.90
May	2031	4.814	$	0.055	$	4.869	$0.11	4.98
Jun	2031	4.879	$	0.082	$	4.962	$0.11	5.08
Jul	2031	5.209	$	0.116	$	5.325	$0.12	5.45
Aug	2031	5.261	$	0.139	$	5.400	$0.12	5.52
Sep	2031	5.164	$	0.086	$	5.250	$0.12	5.37
Oct	2031	5.003	$	0.082	$	5.085	$0.12	5.20
Nov	2031	5.073	$	0.066	$	5.139	$0.12	5.26
Dec	2031	5.249	$	0.082	$	5.330	$0.12	5.45
Jan	2032	5.281	$	0.106	$	5.388	$0.12	5.51
Feb	2032	5.310	$	0.077	$	5.387	$0.12	5.51
Mar	2032	5.289	$	0.050	$	5.339	$0.12	5.46
Apr	2032	5.127	$	0.026	$	5.153	$0.12	5.27
May	2032	5.155	$	0.069	$	5.224	$0.12	5.34
Jun	2032	5.188	$	0.095	$	5.283	$0.12	5.40
Jul	2032	5.333	$	0.136	$	5.469	$0.12	5.59

Aug	2032	5.378	$	0.159	$	5.538	$0.12	5.66
Sep	2032	5.301	$	0.091	$	5.392	$0.12	5.51
Oct	2032	5.266	$	0.088	$	5.355	$0.12	5.48
Nov	2032	5.389	$	0.053	$	5.443	$0.12	5.57
Dec	2032	5.402	$	0.072	$	5.475	$0.12	5.60
Jan	2033	5.137	$	0.093	$	5.230	$0.12	5.35
Feb	2033	5.172	$	0.091	$	5.263	$0.12	5.38
Mar	2033	5.121	$	0.022	$	5.143	$0.12	5.26
Apr	2033	5.120	$	0.016	$	5.136	$0.12	5.25
May	2033	5.153	$	0.032	$	5.185	$0.12	5.30
Jun	2033	5.189	$	0.080	$	5.269	$0.12	5.39
Jul	2033	5.348	$	0.119	$	5.467	$0.12	5.59
Aug	2033	5.395	$	0.127	$	5.522	$0.12	5.65
Sep	2033	5.324	$	0.068	$	5.393	$0.12	5.51
Oct	2033	5.275	$	0.053	$	5.328	$0.12	5.45
Nov	2033	5.430	$	0.033	$	5.463	$0.12	5.59
Dec	2033	5.620	$	0.047	$	5.668	$0.13	5.79
Jan	2034	5.658	$	0.080	$	5.738	$0.13	5.87
Feb	2034	5.495	$	0.056	$	5.550	$0.12	5.67
Mar	2034	5.336	$	(0.008)	$	5.328	$0.12	5.45
Apr	2034	5.273	$	0.009	$	5.282	$0.12	5.40
May	2034	5.307	$	0.039	$	5.346	$0.12	5.47
Jun	2034	5.342	$	0.084	$	5.426	$0.12	5.55
Jul	2034	5.598	$	0.125	$	5.723	$0.13	5.85
Aug	2034	5.641	$	0.144	$	5.785	$0.13	5.91
Sep	2034	5.534	$	0.074	$	5.608	$0.13	5.73
Oct	2034	5.398	$	0.049	$	5.447	$0.12	5.57
Nov	2034	5.631	$	0.034	$	5.665	$0.13	5.79
Dec	2034	5.829	$	0.055	$	5.884	$0.13	6.01
Jan	2035	5.870	$	0.086	$	5.956	$0.13	6.09
Feb	2035	5.900	$	0.065	$	5.965	$0.13	6.10
Mar	2035	5.720	$	0.018	$	5.739	$0.13	5.87
Apr	2035	5.462	$	0.023	$	5.485	$0.12	5.61
May	2035	5.496	$	0.046	$	5.542	$0.12	5.67
Jun	2035	5.531	$	0.091	$	5.623	$0.13	5.75
Jul	2035	5.817	$	0.130	$	5.947	$0.13	6.08
Aug	2035	5.854	$	0.147	$	6.001	$0.13	6.13
Sep	2035	5.756	$	0.075	$	5.831	$0.13	5.96
Oct	2035	5.608	$	0.048	$	5.656	$0.13	5.78
Nov	2035	5.657	$	0.033	$	5.690	$0.13	5.82
Dec	2035	5.813	$	0.058	$	5.872	$0.13	6.00
Jan	2036	5.851	$	0.093	$	5.944	$0.13	6.08
Feb	2036	5.876	$	0.034	$	5.911	$0.13	6.04
Mar	2036	5.778	$	0.020	$	5.798	$0.13	5.93
Apr	2036	5.552	$	0.023	$	5.575	$0.13	5.70
May	2036	5.586	$	0.049	$	5.636	$0.13	5.76
Jun	2036	5.627	$	0.096	$	5.723	$0.13	5.85
Jul	2036	5.794	$	0.135	$	5.929	$0.13	6.06
Aug	2036	5.835	$	0.150	$	5.985	$0.13	6.12
Sep	2036	5.807	$	0.089	$	5.896	$0.13	6.03
Oct	2036	5.768	$	0.076	$	5.844	$0.13	5.97
Nov	2036	5.846	$	0.051	$	5.897	$0.13	6.03
Dec	2036	6.113	$	0.064	$	6.177	$0.14	6.31
Jan	2037	6.160	$	0.105	$	6.266	$0.14	6.40
Feb	2037	6.199	$	0.081	$	6.281	$0.14	6.42
Mar	2037	6.107	$	0.024	$	6.132	$0.14	6.27
Apr	2037	5.931	$	0.021	$	5.952	$0.13	6.08
May	2037	5.968	$	0.055	$	6.023	$0.13	6.16
Jun	2037	6.027	$	0.111	$	6.138	$0.14	6.27
Jul	2037	6.286	$	0.147	$	6.433	$0.14	6.57
Aug	2037	6.327	$	0.147	$	6.474	$0.14	6.62
Sep	2037	6.240	$	0.096	$	6.336	$0.14	6.48
Oct	2037	6.172	$	0.074	$	6.246	$0.14	6.38
Nov	2037	6.250	$	0.052	$	6.302	$0.14	6.44
Dec	2037	6.511	$	0.078	$	6.589	$0.14	6.73
Jan	2038	6.552	$	0.111	$	6.663	$0.15	6.81
Feb	2038	6.592	$	0.088	$	6.681	$0.15	6.83
Mar	2038	6.491	$	0.026	$	6.517	$0.14	6.66
Apr	2038	6.270	$	0.044	$	6.314	$0.14	6.45
May	2038	6.308	$	0.060	$	6.369	$0.14	6.51
Jun	2038	6.354	$	0.118	$	6.472	$0.14	6.61
Jul	2038	6.534	$	0.152	$	6.686	$0.15	6.83
Aug	2038	6.580	$	0.145	$	6.725	$0.15	6.87
Sep	2038	6.432	$	0.104	$	6.536	$0.14	6.68
Oct	2038	6.367	$	0.064	$	6.431	$0.14	6.57
Nov	2038	6.473	$	0.073	$	6.546	$0.14	6.69
Dec	2038	6.705	$	0.100	$	6.805	$0.15	6.95
Jan	2039	6.748	$	0.119	$	6.866	$0.15	7.02
Feb	2039	6.789	$	0.101	$	6.891	$0.15	7.04
Mar	2039	6.627	$	0.032	$	6.660	$0.15	6.81
Apr	2039	6.202	$	0.041	$	6.243	$0.14	6.38
May	2039	6.237	$	0.052	$	6.290	$0.14	6.43
Jun	2039	6.278	$	0.115	$	6.392	$0.14	6.53
Jul	2039	6.341	$	0.129	$	6.470	$0.14	6.61
Aug	2039	6.890	$	0.145	$	7.035	$0.15	7.19

Sep	2039	6.860	$	0.088	$	6.948	$0.15	7.10
Oct	2039	6.605	$	0.081	$	6.686	$0.15	6.83
Nov	2039	6.680	$	0.063	$	6.743	$0.15	6.89
Dec	2039	6.885	$	0.087	$	6.971	$0.15	7.12
Jan	2040	6.925	$	0.098	$	7.023	$0.15	7.18
Feb	2040	6.962	$	0.061	$	7.022	$0.15	7.17
Mar	2040	6.849	$	0.033	$	6.882	$0.15	7.03
Apr	2040	6.622	$	0.013	$	6.635	$0.15	6.78
May	2040	6.660	$	0.058	$	6.718	$0.15	6.86
Jun	2040	6.717	$	0.108	$	6.824	$0.15	6.97
Jul	2040	6.962	$	0.144	$	7.107	$0.15	7.26
Aug	2040	7.005	$	0.155	$	7.160	$0.15	7.31
Sep	2040	6.991	$	0.098	$	7.089	$0.15	7.24
Oct	2040	6.835	$	0.086	$	6.921	$0.15	7.07
Nov	2040	6.907	$	0.069	$	6.976	$0.15	7.13
Dec	2040	7.143	$	0.111	$	7.255	$0.16	7.41
Jan	2041	7.186	$	0.113	$	7.298	$0.16	7.46
Feb	2041	7.213	$	0.083	$	7.296	$0.16	7.45
Mar	2041	7.060	$	0.037	$	7.097	$0.15	7.25
Apr	2041	6.802	$	0.048	$	6.850	$0.15	7.00
May	2041	6.844	$	0.061	$	6.905	$0.15	7.06
Jun	2041	6.917	$	0.124	$	7.041	$0.15	7.19
Jul	2041	7.221	$	0.166	$	7.387	$0.16	7.55
Aug	2041	7.264	$	0.158	$	7.421	$0.16	7.58
Sep	2041	7.266	$	0.116	$	7.382	$0.16	7.54
Oct	2041	7.027	$	0.061	$	7.088	$0.15	7.24
Nov	2041	7.157	$	0.077	$	7.234	$0.16	7.39
Dec	2041	7.359	$	0.127	$	7.486	$0.16	7.65
Jan	2042	7.402	$	0.120	$	7.523	$0.16	7.68
Feb	2042	7.433	$	0.089	$	7.522	$0.16	7.68
Mar	2042	7.276	$	0.033	$	7.309	$0.16	7.47
Apr	2042	7.072	$	0.045	$	7.117	$0.15	7.27
May	2042	7.115	$	0.063	$	7.179	$0.16	7.33
Jun	2042	7.185	$	0.134	$	7.319	$0.16	7.48
Jul	2042	7.551	$	0.168	$	7.719	$0.17	7.88
Aug	2042	7.599	$	0.171	$	7.770	$0.17	7.94
Sep	2042	7.574	$	0.120	$	7.694	$0.17	7.86
Oct	2042	7.314	$	0.080	$	7.394	$0.16	7.55
Nov	2042	7.355	$	0.075	$	7.429	$0.16	7.59
Dec	2042	7.587	$	0.102	$	7.689	$0.16	7.85
Jan	2043	7.632	$	0.105	$	7.737	$0.17	7.90
Feb	2043	7.656	$	0.058	$	7.715	$0.17	7.88
Mar	2043	7.507	$	0.035	$	7.542	$0.16	7.70
Apr	2043	7.246	$	0.028	$	7.275	$0.16	7.43
May	2043	7.291	$	0.050	$	7.341	$0.16	7.50
Jun	2043	7.346	$	0.106	$	7.452	$0.16	7.61
Jul	2043	7.705	$	0.164	$	7.869	$0.17	8.04
Aug	2043	7.751	$	0.156	$	7.907	$0.17	8.08
Sep	2043	7.776	$	0.091	$	7.866	$0.17	8.03
Oct	2043	7.486	$	0.077	$	7.562	$0.16	7.72
Nov	2043	7.551	$	0.066	$	7.617	$0.16	7.78
Dec	2043	7.795	$	0.097	$	7.892	$0.17	8.06
Jan	2044	7.843	$	0.099	$	7.942	$0.17	8.11
Feb	2044	7.877	$	0.059	$	7.936	$0.17	8.11
Mar	2044	7.712	$	0.025	$	7.737	$0.17	7.90
Apr	2044	7.571	$	0.029	$	7.600	$0.16	7.76
May	2044	7.615	$	0.040	$	7.655	$0.16	7.82
Jun	2044	7.661	$	0.105	$	7.766	$0.17	7.93
Jul	2044	8.012	$	0.160	$	8.173	$0.17	8.35
Aug	2044	8.062	$	0.162	$	8.224	$0.18	8.40
Sep	2044	8.047	$	0.080	$	8.127	$0.17	8.30
Oct	2044	7.844	$	0.045	$	7.889	$0.17	8.06
Nov	2044	7.965	$	0.060	$	8.025	$0.17	8.20
Dec	2044	8.212	$	0.099	$	8.311	$0.18	8.49
Jan	2045	8.261	$	0.107	$	8.368	$0.18	8.55
Feb	2045	8.310	$	0.056	$	8.366	$0.18	8.54
Mar	2045	8.177	$	0.031	$	8.208	$0.17	8.38
Apr	2045	7.989	$	0.026	$	8.015	$0.17	8.19
May	2045	8.031	$	0.042	$	8.072	$0.17	8.24
Jun	2045	8.080	$	0.109	$	8.189	$0.17	8.36
Jul	2045	8.453	$	0.157	$	8.610	$0.18	8.79
Aug	2045	8.506	$	0.169	$	8.676	$0.18	8.86
Sep	2045	8.521	$	0.085	$	8.606	$0.18	8.79
Oct	2045	8.268	$	0.062	$	8.331	$0.18	8.51
Nov	2045	8.402	$	0.062	$	8.464	$0.18	8.64
Dec	2045	8.652	$	0.096	$	8.748	$0.18	8.93
Jan	2046	8.703	$	0.115	$	8.818	$0.19	9.00
Feb	2046	8.730	$	0.062	$	8.792	$0.19	8.98
Mar	2046	8.526	$	0.022	$	8.549	$0.18	8.73
Apr	2046	8.288	$	0.018	$	8.306	$0.18	8.48
May	2046	8.324	$	0.043	$	8.368	$0.18	8.55
Jun	2046	8.374	$	0.110	$	8.484	$0.18	8.66
Jul	2046	8.801	$	0.158	$	8.959	$0.19	9.15
Aug	2046	8.857	$	0.176	$	9.033	$0.19	9.22
Sep	2046	8.828	$	0.081	$	8.909	$0.19	9.10

Oct	2046	8.549	$	0.062	$	8.611	$0.18	8.79
Nov	2046	8.628	$	0.064	$	8.692	$0.18	8.88
Dec	2046	8.854	$	0.103	$	8.957	$0.19	9.15
Jan	2047	8.906	$	0.126	$	9.032	$0.19	9.22
Feb	2047	8.921	$	0.058	$	8.979	$0.19	9.17
Mar	2047	8.604	$	0.019	$	8.622	$0.18	8.80
Apr	2047	8.403	$	0.022	$	8.425	$0.18	8.60
May	2047	8.437	$	0.039	$	8.476	$0.18	8.66
Jun	2047	8.486	$	0.123	$	8.610	$0.18	8.79
Jul	2047	8.902	$	0.165	$	9.067	$0.19	9.26
Aug	2047	8.958	$	0.182	$	9.140	$0.19	9.33
Sep	2047	8.954	$	0.088	$	9.042	$0.19	9.23
Oct	2047	8.794	$	0.052	$	8.846	$0.19	9.03
Nov	2047	8.872	$	0.052	$	8.924	$0.19	9.11
Dec	2047	8.907	$	0.093	$	9.001	$0.19	9.19
Jan	2048	8.959	$	0.109	$	9.068	$0.19	9.26
Feb	2048	9.002	$	0.036	$	9.038	$0.19	9.23
Mar	2048	8.799	$	0.007	$	8.806	$0.19	8.99
Apr	2048	8.672	$	0.022	$	8.694	$0.18	8.88
May	2048	8.721	$	0.032	$	8.753	$0.18	8.94
Jun	2048	8.811	$	0.099	$	8.910	$0.19	9.10
Jul	2048	9.345	$	0.136	$	9.480	$0.20	9.68
Aug	2048	9.410	$	0.181	$	9.591	$0.20	9.79
Sep	2048	9.428	$	0.072	$	9.500	$0.20	9.70
Oct	2048	9.043	$	0.058	$	9.101	$0.19	9.29
Nov	2048	9.185	$	0.046	$	9.231	$0.19	9.42
Dec	2048	9.448	$	0.061	$	9.509	$0.20	9.71
Jan	2049	9.502	$	0.085	$	9.587	$0.20	9.79
Feb	2049	9.512	$	0.031	$	9.544	$0.20	9.74
Mar	2049	9.452	$	0.007	$	9.458	$0.20	9.66
Apr	2049	9.346	$	0.019	$	9.365	$0.20	9.56
May	2049	8.991	$	0.033	$	9.023	$0.19	9.21
Jun	2049	9.041	$	0.089	$	9.130	$0.19	9.32
Jul	2049	9.257	$	0.124	$	9.381	$0.20	9.58
Aug	2049	9.309	$	0.151	$	9.460	$0.20	9.66
Sep	2049	9.142	$	0.071	$	9.214	$0.19	9.41
Oct	2049	8.977	$	0.058	$	9.035	$0.19	9.23
Nov	2049	9.324	$	0.046	$	9.370	$0.20	9.57
Dec	2049	9.702	$	0.062	$	9.764	$0.20	9.97
Jan	2050	9.755	$	0.086	$	9.841	$0.21	10.05
Feb	2050	9.783	$	0.033	$	9.816	$0.21	10.02
Mar	2050	9.486	$	0.006	$	9.492	$0.20	9.69
Apr	2050	9.015	$	0.023	$	9.038	$0.19	9.23
May	2050	9.058	$	0.032	$	9.090	$0.19	9.28
Jun	2050	9.108	$	0.097	$	9.204	$0.19	9.40
Jul	2050	9.393	$	0.124	$	9.517	$0.20	9.72
Aug	2050	9.450	$	0.158	$	9.608	$0.20	9.81
Sep	2050	9.423	$	0.072	$	9.496	$0.20	9.69
Oct	2050	9.119	$	0.063	$	9.182	$0.19	9.38
Nov	2050	9.368	$	0.047	$	9.416	$0.20	9.61
Dec	2050	9.683	$	0.065	$	9.748	$0.20	9.95

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	GSNG MMBTU Variable Cost	GSNG Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.046)	$ 3.064	$0.13	3.20
Feb	2019	2.690	$ (0.019)	$ 2.671	$0.12	2.79
Mar	2019	2.950	$ (0.003)	$ 2.947	$0.13	3.08
Apr	2019	2.650	$ (0.001)	$ 2.649	$0.12	2.77
May	2019	2.640	$ 0.005	$ 2.645	$0.12	2.76
Jun	2019	2.400	$ 0.037	$ 2.437	$0.11	2.55
Jul	2019	2.370	$ 0.048	$ 2.418	$0.11	2.53
Aug	2019	2.220	$ 0.056	$ 2.276	$0.11	2.38
Sep	2019	2.560	$ 0.016	$ 2.576	$0.12	2.69
Oct	2019	2.743	$ 0.010	$ 2.753	$0.12	2.87
Nov	2019	2.303	$ 0.012	$ 2.315	$0.11	2.42
Dec	2019	2.495	$ 0.023	$ 2.518	$0.11	2.63
Jan	2020	2.612	$ 0.035	$ 2.647	$0.12	2.77
Feb	2020	2.575	$ 0.024	$ 2.599	$0.12	2.72
Mar	2020	2.462	$ (0.020)	$ 2.442	$0.11	2.55
Apr	2020	2.247	$ (0.019)	$ 2.228	$0.10	2.33
May	2020	2.234	$ 0.005	$ 2.239	$0.10	2.34
Jun	2020	2.278	$ 0.026	$ 2.304	$0.11	2.41
Jul	2020	2.326	$ 0.048	$ 2.374	$0.11	2.48
Aug	2020	2.335	$ 0.055	$ 2.390	$0.11	2.50
Sep	2020	2.318	$ 0.012	$ 2.330	$0.11	2.44
Oct	2020	2.344	$ 0.016	$ 2.360	$0.11	2.47
Nov	2020	2.409	$ 0.025	$ 2.434	$0.11	2.54
Dec	2020	2.578	$ 0.034	$ 2.612	$0.12	2.73
Jan	2021	2.700	$ 0.038	$ 2.738	$0.12	2.86
Feb	2021	2.661	$ 0.033	$ 2.694	$0.12	2.81
Mar	2021	2.548	$ (0.015)	$ 2.533	$0.11	2.65
Apr	2021	2.284	$ (0.021)	$ 2.263	$0.10	2.37
May	2021	2.260	$ 0.005	$ 2.265	$0.10	2.37
Jun	2021	2.294	$ 0.025	$ 2.319	$0.11	2.43
Jul	2021	2.332	$ 0.047	$ 2.379	$0.11	2.49
Aug	2021	2.339	$ 0.058	$ 2.397	$0.11	2.51
Sep	2021	2.328	$ 0.011	$ 2.339	$0.11	2.45
Oct	2021	2.354	$ 0.018	$ 2.372	$0.11	2.48
Nov	2021	2.424	$ 0.027	$ 2.451	$0.11	2.56
Dec	2021	2.603	$ 0.038	$ 2.641	$0.12	2.76
Jan	2022	2.729	$ 0.041	$ 2.770	$0.12	2.89
Feb	2022	2.702	$ 0.036	$ 2.738	$0.12	2.86
Mar	2022	2.595	$ (0.013)	$ 2.582	$0.12	2.70
Apr	2022	2.340	$ (0.016)	$ 2.324	$0.11	2.43
May	2022	2.324	$ 0.007	$ 2.331	$0.11	2.44
Jun	2022	2.359	$ 0.034	$ 2.393	$0.11	2.50
Jul	2022	2.399	$ 0.059	$ 2.458	$0.11	2.57
Aug	2022	2.411	$ 0.066	$ 2.477	$0.11	2.59
Sep	2022	2.404	$ 0.021	$ 2.425	$0.11	2.54
Oct	2022	2.430	$ 0.024	$ 2.454	$0.11	2.57
Nov	2022	2.492	$ 0.034	$ 2.526	$0.11	2.64
Dec	2022	2.674	$ 0.044	$ 2.718	$0.12	2.84
Jan	2023	2.799	$ 0.052	$ 2.851	$0.13	2.98
Feb	2023	2.767	$ 0.047	$ 2.814	$0.12	2.94
Mar	2023	2.656	$ (0.003)	$ 2.653	$0.12	2.77
Apr	2023	2.401	$ (0.008)	$ 2.393	$0.11	2.50
May	2023	2.385	$ 0.016	$ 2.401	$0.11	2.51
Jun	2023	2.426	$ 0.042	$ 2.468	$0.11	2.58
Jul	2023	2.466	$ 0.068	$ 2.534	$0.11	2.65
Aug	2023	2.481	$ 0.076	$ 2.557	$0.11	2.67
Sep	2023	2.476	$ 0.029	$ 2.505	$0.11	2.62
Oct	2023	2.505	$ 0.030	$ 2.535	$0.11	2.65
Nov	2023	2.580	$ 0.037	$ 2.617	$0.12	2.73
Dec	2023	2.760	$ 0.053	$ 2.813	$0.12	2.94
Jan	2024	2.889	$ 0.058	$ 2.947	$0.13	3.08
Feb	2024	2.866	$ 0.050	$ 2.915	$0.13	3.04
Mar	2024	2.760	$ (0.002)	$ 2.758	$0.12	2.88
Apr	2024	2.534	$ (0.007)	$ 2.527	$0.11	2.64
May	2024	2.531	$ 0.017	$ 2.548	$0.11	2.66
Jun	2024	2.573	$ 0.046	$ 2.619	$0.12	2.74
Jul	2024	2.623	$ 0.077	$ 2.700	$0.12	2.82
Aug	2024	2.644	$ 0.077	$ 2.722	$0.12	2.84
Sep	2024	2.646	$ 0.047	$ 2.693	$0.12	2.81
Oct	2024	2.672	$ 0.040	$ 2.713	$0.12	2.83
Nov	2024	2.758	$ 0.044	$ 2.802	$0.12	2.93
Dec	2024	2.940	$ 0.056	$ 2.996	$0.13	3.13
Jan	2025	3.054	$ 0.061	$ 3.115	$0.13	3.25
Feb	2025	3.048	$ 0.055	$ 3.103	$0.13	3.24
Mar	2025	2.970	$ (0.001)	$ 2.969	$0.13	3.10
Apr	2025	2.799	$ (0.011)	$ 2.789	$0.12	2.91
May	2025	2.811	$ 0.016	$ 2.826	$0.12	2.95
Jun	2025	2.854	$ 0.054	$ 2.908	$0.13	3.04
Jul	2025	2.948	$ 0.078	$ 3.027	$0.13	3.16
Aug	2025	2.980	$ 0.078	$ 3.058	$0.13	3.19
Sep	2025	2.883	$ 0.045	$ 2.928	$0.13	3.06
Oct	2025	2.903	$ 0.035	$ 2.938	$0.13	3.07
Nov	2025	2.990	$ 0.036	$ 3.026	$0.13	3.16

GSNG SESH			
Current Yr	2019	√	DJ 10/11
Total Fuel Retention	3.35%		
100%-B	96.65%		
Total Variable	0.0263		
Esc%	100.00%	√	DJ 10/11

GSNG Firm	
Fuel Retention	1.85%
GSNG Variable	0.0200

SESH			
Fuel Retention	1.50%	√	DJ 10/11
Usage Rate	0.005	√	DJ 10/11
ACA	0.0013	√	DJ 10/11
SESH Variable	0.0063		

Dec	2025	3.163	$ 0.051	$	3.214	$0.14	3.35
Jan	2026	3.255	$ 0.057	$	3.311	$0.14	3.45
Feb	2026	3.255	$ 0.053	$	3.308	$0.14	3.45
Mar	2026	3.176	$ (0.003)	$	3.172	$0.14	3.31
Apr	2026	3.042	$ (0.001)	$	3.041	$0.13	3.17
May	2026	3.061	$ 0.022	$	3.083	$0.13	3.22
Jun	2026	3.116	$ 0.053	$	3.169	$0.14	3.31
Jul	2026	3.276	$ 0.077	$	3.353	$0.14	3.50
Aug	2026	3.318	$ 0.078	$	3.396	$0.14	3.54
Sep	2026	3.252	$ 0.041	$	3.293	$0.14	3.43
Oct	2026	3.247	$ 0.034	$	3.280	$0.14	3.42
Nov	2026	3.322	$ 0.042	$	3.364	$0.14	3.51
Dec	2026	3.506	$ 0.054	$	3.559	$0.15	3.71
Jan	2027	3.583	$ 0.062	$	3.645	$0.15	3.80
Feb	2027	3.604	$ 0.057	$	3.661	$0.15	3.81
Mar	2027	3.551	$ (0.002)	$	3.549	$0.15	3.70
Apr	2027	3.396	$ (0.002)	$	3.394	$0.14	3.54
May	2027	3.424	$ 0.021	$	3.445	$0.15	3.59
Jun	2027	3.498	$ 0.051	$	3.549	$0.15	3.70
Jul	2027	3.731	$ 0.079	$	3.809	$0.16	3.97
Aug	2027	3.778	$ 0.082	$	3.860	$0.16	4.02
Sep	2027	3.768	$ 0.043	$	3.812	$0.16	3.97
Oct	2027	3.651	$ 0.038	$	3.690	$0.15	3.84
Nov	2027	3.730	$ 0.043	$	3.773	$0.16	3.93
Dec	2027	3.930	$ 0.054	$	3.984	$0.16	4.15
Jan	2028	3.993	$ 0.063	$	4.056	$0.17	4.22
Feb	2028	4.025	$ 0.047	$	4.072	$0.17	4.24
Mar	2028	3.948	$ (0.002)	$	3.946	$0.16	4.11
Apr	2028	3.907	$ (0.006)	$	3.900	$0.16	4.06
May	2028	3.947	$ 0.024	$	3.971	$0.16	4.13
Jun	2028	4.139	$ 0.059	$	4.198	$0.17	4.37
Jul	2028	4.159	$ 0.091	$	4.250	$0.17	4.42
Aug	2028	4.214	$ 0.089	$	4.304	$0.18	4.48
Sep	2028	4.278	$ 0.048	$	4.325	$0.18	4.50
Oct	2028	4.263	$ 0.044	$	4.307	$0.18	4.48
Nov	2028	4.329	$ 0.046	$	4.375	$0.18	4.55
Dec	2028	4.599	$ 0.054	$	4.653	$0.19	4.84
Jan	2029	4.640	$ 0.075	$	4.716	$0.19	4.91
Feb	2029	4.669	$ 0.068	$	4.737	$0.19	4.93
Mar	2029	4.455	$ 0.007	$	4.462	$0.18	4.64
Apr	2029	4.470	$ 0.002	$	4.472	$0.18	4.65
May	2029	4.534	$ 0.027	$	4.561	$0.18	4.75
Jun	2029	4.657	$ 0.062	$	4.719	$0.19	4.91
Jul	2029	4.385	$ 0.091	$	4.476	$0.18	4.66
Aug	2029	4.417	$ 0.098	$	4.516	$0.18	4.70
Sep	2029	4.535	$ 0.053	$	4.588	$0.19	4.77
Oct	2029	4.525	$ 0.040	$	4.565	$0.18	4.75
Nov	2029	4.430	$ 0.063	$	4.492	$0.18	4.67
Dec	2029	4.634	$ 0.062	$	4.696	$0.19	4.89
Jan	2030	4.665	$ 0.075	$	4.740	$0.19	4.93
Feb	2030	4.694	$ 0.069	$	4.763	$0.19	4.95
Mar	2030	4.583	$ 0.004	$	4.587	$0.19	4.77
Apr	2030	4.550	$ (0.008)	$	4.543	$0.18	4.73
May	2030	4.578	$ 0.029	$	4.607	$0.19	4.79
Jun	2030	4.653	$ 0.069	$	4.721	$0.19	4.91
Jul	2030	4.983	$ 0.104	$	5.086	$0.20	5.29
Aug	2030	5.019	$ 0.113	$	5.132	$0.20	5.34
Sep	2030	4.946	$ 0.056	$	5.002	$0.20	5.20
Oct	2030	4.722	$ 0.053	$	4.775	$0.19	4.97
Nov	2030	4.635	$ 0.056	$	4.692	$0.19	4.88
Dec	2030	4.861	$ 0.064	$	4.925	$0.20	5.12
Jan	2031	4.892	$ 0.098	$	4.989	$0.20	5.19
Feb	2031	4.922	$ 0.092	$	5.015	$0.20	5.22
Mar	2031	4.825	$ 0.019	$	4.845	$0.19	5.04
Apr	2031	4.785	$ 0.000	$	4.785	$0.19	4.98
May	2031	4.814	$ 0.055	$	4.869	$0.20	5.06
Jun	2031	4.879	$ 0.082	$	4.962	$0.20	5.16
Jul	2031	5.209	$ 0.116	$	5.325	$0.21	5.54
Aug	2031	5.261	$ 0.139	$	5.400	$0.21	5.61
Sep	2031	5.164	$ 0.086	$	5.250	$0.21	5.46
Oct	2031	5.003	$ 0.082	$	5.085	$0.20	5.29
Nov	2031	5.073	$ 0.066	$	5.139	$0.20	5.34
Dec	2031	5.249	$ 0.082	$	5.330	$0.21	5.54
Jan	2032	5.281	$ 0.106	$	5.388	$0.21	5.60
Feb	2032	5.310	$ 0.077	$	5.387	$0.21	5.60
Mar	2032	5.289	$ 0.050	$	5.339	$0.21	5.55
Apr	2032	5.127	$ 0.026	$	5.153	$0.20	5.36
May	2032	5.155	$ 0.069	$	5.224	$0.21	5.43
Jun	2032	5.188	$ 0.095	$	5.283	$0.21	5.49
Jul	2032	5.333	$ 0.136	$	5.469	$0.22	5.68
Aug	2032	5.378	$ 0.159	$	5.538	$0.22	5.76
Sep	2032	5.301	$ 0.091	$	5.392	$0.21	5.61
Oct	2032	5.266	$ 0.088	$	5.355	$0.21	5.57
Nov	2032	5.389	$ 0.053	$	5.443	$0.21	5.66
Dec	2032	5.402	$ 0.072	$	5.475	$0.22	5.69
Jan	2033	5.137	$ 0.093	$	5.230	$0.21	5.44
Feb	2033	5.172	$ 0.091	$	5.263	$0.21	5.47
Mar	2033	5.121	$ 0.022	$	5.143	$0.20	5.35
Apr	2033	5.120	$ 0.016	$	5.136	$0.20	5.34
May	2033	5.153	$ 0.032	$	5.185	$0.21	5.39

Jun	2033	5.189	$	0.080	$	5.269	$0.21	5.48
Jul	2033	5.348	$	0.119	$	5.467	$0.22	5.68
Aug	2033	5.395	$	0.127	$	5.522	$0.22	5.74
Sep	2033	5.324	$	0.068	$	5.393	$0.21	5.61
Oct	2033	5.275	$	0.053	$	5.328	$0.21	5.54
Nov	2033	5.430	$	0.033	$	5.463	$0.22	5.68
Dec	2033	5.620	$	0.047	$	5.668	$0.22	5.89
Jan	2034	5.658	$	0.080	$	5.738	$0.23	5.96
Feb	2034	5.495	$	0.056	$	5.550	$0.22	5.77
Mar	2034	5.336	$	(0.008)	$	5.328	$0.21	5.54
Apr	2034	5.273	$	0.009	$	5.282	$0.21	5.49
May	2034	5.307	$	0.039	$	5.346	$0.21	5.56
Jun	2034	5.342	$	0.084	$	5.426	$0.21	5.64
Jul	2034	5.598	$	0.125	$	5.723	$0.22	5.95
Aug	2034	5.641	$	0.144	$	5.785	$0.23	6.01
Sep	2034	5.534	$	0.074	$	5.608	$0.22	5.83
Oct	2034	5.398	$	0.049	$	5.447	$0.22	5.66
Nov	2034	5.631	$	0.034	$	5.665	$0.22	5.89
Dec	2034	5.829	$	0.055	$	5.884	$0.23	6.11
Jan	2035	5.870	$	0.086	$	5.956	$0.23	6.19
Feb	2035	5.900	$	0.065	$	5.965	$0.23	6.20
Mar	2035	5.720	$	0.018	$	5.739	$0.23	5.96
Apr	2035	5.462	$	0.023	$	5.485	$0.22	5.70
May	2035	5.496	$	0.046	$	5.542	$0.22	5.76
Jun	2035	5.531	$	0.091	$	5.623	$0.22	5.84
Jul	2035	5.817	$	0.130	$	5.947	$0.23	6.18
Aug	2035	5.854	$	0.147	$	6.001	$0.23	6.24
Sep	2035	5.756	$	0.075	$	5.831	$0.23	6.06
Oct	2035	5.608	$	0.048	$	5.656	$0.22	5.88
Nov	2035	5.657	$	0.033	$	5.690	$0.22	5.91
Dec	2035	5.813	$	0.058	$	5.872	$0.23	6.10
Jan	2036	5.851	$	0.093	$	5.944	$0.23	6.18
Feb	2036	5.876	$	0.034	$	5.911	$0.23	6.14
Mar	2036	5.778	$	0.020	$	5.798	$0.23	6.03
Apr	2036	5.552	$	0.023	$	5.575	$0.22	5.79
May	2036	5.586	$	0.049	$	5.636	$0.22	5.86
Jun	2036	5.627	$	0.096	$	5.723	$0.22	5.95
Jul	2036	5.794	$	0.135	$	5.929	$0.23	6.16
Aug	2036	5.835	$	0.150	$	5.985	$0.23	6.22
Sep	2036	5.807	$	0.089	$	5.896	$0.23	6.13
Oct	2036	5.768	$	0.076	$	5.844	$0.23	6.07
Nov	2036	5.846	$	0.051	$	5.897	$0.23	6.13
Dec	2036	6.113	$	0.064	$	6.177	$0.24	6.42
Jan	2037	6.160	$	0.105	$	6.266	$0.24	6.51
Feb	2037	6.199	$	0.081	$	6.281	$0.24	6.53
Mar	2037	6.107	$	0.024	$	6.132	$0.24	6.37
Apr	2037	5.931	$	0.021	$	5.952	$0.23	6.18
May	2037	5.968	$	0.055	$	6.023	$0.24	6.26
Jun	2037	6.027	$	0.111	$	6.138	$0.24	6.38
Jul	2037	6.286	$	0.147	$	6.433	$0.25	6.68
Aug	2037	6.327	$	0.147	$	6.474	$0.25	6.72
Sep	2037	6.240	$	0.096	$	6.336	$0.25	6.58
Oct	2037	6.172	$	0.074	$	6.246	$0.24	6.49
Nov	2037	6.250	$	0.052	$	6.302	$0.24	6.55
Dec	2037	6.511	$	0.078	$	6.589	$0.25	6.84
Jan	2038	6.552	$	0.111	$	6.663	$0.26	6.92
Feb	2038	6.592	$	0.088	$	6.681	$0.26	6.94
Mar	2038	6.491	$	0.026	$	6.517	$0.25	6.77
Apr	2038	6.270	$	0.044	$	6.314	$0.25	6.56
May	2038	6.308	$	0.060	$	6.369	$0.25	6.62
Jun	2038	6.354	$	0.118	$	6.472	$0.25	6.72
Jul	2038	6.534	$	0.152	$	6.686	$0.26	6.94
Aug	2038	6.580	$	0.145	$	6.725	$0.26	6.98
Sep	2038	6.432	$	0.104	$	6.536	$0.25	6.79
Oct	2038	6.367	$	0.064	$	6.431	$0.25	6.68
Nov	2038	6.473	$	0.073	$	6.546	$0.25	6.80
Dec	2038	6.705	$	0.100	$	6.805	$0.26	7.07
Jan	2039	6.748	$	0.119	$	6.866	$0.26	7.13
Feb	2039	6.789	$	0.101	$	6.891	$0.27	7.16
Mar	2039	6.627	$	0.032	$	6.660	$0.26	6.92
Apr	2039	6.202	$	0.041	$	6.243	$0.24	6.49
May	2039	6.237	$	0.052	$	6.290	$0.24	6.53
Jun	2039	6.278	$	0.115	$	6.392	$0.25	6.64
Jul	2039	6.341	$	0.129	$	6.470	$0.25	6.72
Aug	2039	6.890	$	0.145	$	7.035	$0.27	7.31
Sep	2039	6.860	$	0.088	$	6.948	$0.27	7.22
Oct	2039	6.605	$	0.081	$	6.686	$0.26	6.94
Nov	2039	6.680	$	0.063	$	6.743	$0.26	7.00
Dec	2039	6.885	$	0.087	$	6.971	$0.27	7.24
Jan	2040	6.925	$	0.098	$	7.023	$0.27	7.29
Feb	2040	6.962	$	0.061	$	7.022	$0.27	7.29
Mar	2040	6.849	$	0.033	$	6.882	$0.26	7.15
Apr	2040	6.622	$	0.013	$	6.635	$0.26	6.89
May	2040	6.660	$	0.058	$	6.718	$0.26	6.98
Jun	2040	6.717	$	0.108	$	6.824	$0.26	7.09
Jul	2040	6.962	$	0.144	$	7.107	$0.27	7.38
Aug	2040	7.005	$	0.155	$	7.160	$0.27	7.43
Sep	2040	6.991	$	0.098	$	7.089	$0.27	7.36
Oct	2040	6.835	$	0.086	$	6.921	$0.27	7.19
Nov	2040	6.907	$	0.069	$	6.976	$0.27	7.24

Dec	2040	7.143	$ 0.111	$	7.255	$0.28	7.53
Jan	2041	7.186	$ 0.113	$	7.298	$0.28	7.58
Feb	2041	7.213	$ 0.083	$	7.296	$0.28	7.58
Mar	2041	7.060	$ 0.037	$	7.097	$0.27	7.37
Apr	2041	6.802	$ 0.048	$	6.850	$0.26	7.11
May	2041	6.844	$ 0.061	$	6.905	$0.27	7.17
Jun	2041	6.917	$ 0.124	$	7.041	$0.27	7.31
Jul	2041	7.221	$ 0.166	$	7.387	$0.28	7.67
Aug	2041	7.264	$ 0.158	$	7.421	$0.28	7.70
Sep	2041	7.266	$ 0.116	$	7.382	$0.28	7.66
Oct	2041	7.027	$ 0.061	$	7.088	$0.27	7.36
Nov	2041	7.157	$ 0.077	$	7.234	$0.28	7.51
Dec	2041	7.359	$ 0.127	$	7.486	$0.29	7.77
Jan	2042	7.402	$ 0.120	$	7.523	$0.29	7.81
Feb	2042	7.433	$ 0.089	$	7.522	$0.29	7.81
Mar	2042	7.276	$ 0.033	$	7.309	$0.28	7.59
Apr	2042	7.072	$ 0.045	$	7.117	$0.27	7.39
May	2042	7.115	$ 0.063	$	7.179	$0.28	7.45
Jun	2042	7.185	$ 0.134	$	7.319	$0.28	7.60
Jul	2042	7.551	$ 0.168	$	7.719	$0.29	8.01
Aug	2042	7.599	$ 0.171	$	7.770	$0.30	8.07
Sep	2042	7.574	$ 0.120	$	7.694	$0.29	7.99
Oct	2042	7.314	$ 0.080	$	7.394	$0.28	7.68
Nov	2042	7.355	$ 0.075	$	7.429	$0.28	7.71
Dec	2042	7.587	$ 0.102	$	7.689	$0.29	7.98
Jan	2043	7.632	$ 0.105	$	7.737	$0.29	8.03
Feb	2043	7.656	$ 0.058	$	7.715	$0.29	8.01
Mar	2043	7.507	$ 0.035	$	7.542	$0.29	7.83
Apr	2043	7.246	$ 0.028	$	7.275	$0.28	7.55
May	2043	7.291	$ 0.050	$	7.341	$0.28	7.62
Jun	2043	7.346	$ 0.106	$	7.452	$0.28	7.74
Jul	2043	7.705	$ 0.164	$	7.869	$0.30	8.17
Aug	2043	7.751	$ 0.156	$	7.907	$0.30	8.21
Sep	2043	7.776	$ 0.091	$	7.866	$0.30	8.16
Oct	2043	7.486	$ 0.077	$	7.562	$0.29	7.85
Nov	2043	7.551	$ 0.066	$	7.617	$0.29	7.91
Dec	2043	7.795	$ 0.097	$	7.892	$0.30	8.19
Jan	2044	7.843	$ 0.099	$	7.942	$0.30	8.24
Feb	2044	7.877	$ 0.059	$	7.936	$0.30	8.24
Mar	2044	7.712	$ 0.025	$	7.737	$0.29	8.03
Apr	2044	7.571	$ 0.029	$	7.600	$0.29	7.89
May	2044	7.615	$ 0.040	$	7.655	$0.29	7.95
Jun	2044	7.661	$ 0.105	$	7.766	$0.30	8.06
Jul	2044	8.012	$ 0.160	$	8.173	$0.31	8.48
Aug	2044	8.062	$ 0.162	$	8.224	$0.31	8.54
Sep	2044	8.047	$ 0.080	$	8.127	$0.31	8.43
Oct	2044	7.844	$ 0.045	$	7.889	$0.30	8.19
Nov	2044	7.965	$ 0.060	$	8.025	$0.30	8.33
Dec	2044	8.212	$ 0.099	$	8.311	$0.31	8.63
Jan	2045	8.261	$ 0.107	$	8.368	$0.32	8.68
Feb	2045	8.310	$ 0.056	$	8.366	$0.32	8.68
Mar	2045	8.177	$ 0.031	$	8.208	$0.31	8.52
Apr	2045	7.989	$ 0.026	$	8.015	$0.30	8.32
May	2045	8.031	$ 0.042	$	8.072	$0.31	8.38
Jun	2045	8.080	$ 0.109	$	8.189	$0.31	8.50
Jul	2045	8.453	$ 0.157	$	8.610	$0.32	8.93
Aug	2045	8.506	$ 0.169	$	8.676	$0.33	9.00
Sep	2045	8.521	$ 0.085	$	8.606	$0.32	8.93
Oct	2045	8.268	$ 0.062	$	8.331	$0.32	8.65
Nov	2045	8.402	$ 0.062	$	8.464	$0.32	8.78
Dec	2045	8.652	$ 0.096	$	8.748	$0.33	9.08
Jan	2046	8.703	$ 0.115	$	8.818	$0.33	9.15
Feb	2046	8.730	$ 0.062	$	8.792	$0.33	9.12
Mar	2046	8.526	$ 0.022	$	8.549	$0.32	8.87
Apr	2046	8.288	$ 0.018	$	8.306	$0.31	8.62
May	2046	8.324	$ 0.043	$	8.368	$0.32	8.68
Jun	2046	8.374	$ 0.110	$	8.484	$0.32	8.80
Jul	2046	8.801	$ 0.158	$	8.959	$0.34	9.30
Aug	2046	8.857	$ 0.176	$	9.033	$0.34	9.37
Sep	2046	8.828	$ 0.081	$	8.909	$0.34	9.24
Oct	2046	8.549	$ 0.062	$	8.611	$0.32	8.94
Nov	2046	8.628	$ 0.064	$	8.692	$0.33	9.02
Dec	2046	8.854	$ 0.103	$	8.957	$0.34	9.29
Jan	2047	8.906	$ 0.126	$	9.032	$0.34	9.37
Feb	2047	8.921	$ 0.058	$	8.979	$0.34	9.32
Mar	2047	8.604	$ 0.019	$	8.622	$0.33	8.95
Apr	2047	8.403	$ 0.022	$	8.425	$0.32	8.74
May	2047	8.437	$ 0.039	$	8.476	$0.32	8.80
Jun	2047	8.486	$ 0.123	$	8.610	$0.32	8.93
Jul	2047	8.902	$ 0.165	$	9.067	$0.34	9.41
Aug	2047	8.958	$ 0.182	$	9.140	$0.34	9.48
Sep	2047	8.954	$ 0.088	$	9.042	$0.34	9.38
Oct	2047	8.794	$ 0.052	$	8.846	$0.33	9.18
Nov	2047	8.872	$ 0.052	$	8.924	$0.34	9.26
Dec	2047	8.907	$ 0.093	$	9.001	$0.34	9.34
Jan	2048	8.959	$ 0.109	$	9.068	$0.34	9.41
Feb	2048	9.002	$ 0.036	$	9.038	$0.34	9.38
Mar	2048	8.799	$ 0.007	$	8.806	$0.33	9.14
Apr	2048	8.672	$ 0.022	$	8.694	$0.33	9.02
May	2048	8.721	$ 0.032	$	8.753	$0.33	9.08

Jun	2048	8.811	$	0.099	$	8.910	$0.34	9.25
Jul	2048	9.345	$	0.136	$	9.480	$0.35	9.83
Aug	2048	9.410	$	0.181	$	9.591	$0.36	9.95
Sep	2048	9.428	$	0.072	$	9.500	$0.36	9.86
Oct	2048	9.043	$	0.058	$	9.101	$0.34	9.44
Nov	2048	9.185	$	0.046	$	9.231	$0.35	9.58
Dec	2048	9.448	$	0.061	$	9.509	$0.36	9.86
Jan	2049	9.502	$	0.085	$	9.587	$0.36	9.95
Feb	2049	9.512	$	0.031	$	9.544	$0.36	9.90
Mar	2049	9.452	$	0.007	$	9.458	$0.35	9.81
Apr	2049	9.346	$	0.019	$	9.365	$0.35	9.72
May	2049	8.991	$	0.033	$	9.023	$0.34	9.36
Jun	2049	9.041	$	0.089	$	9.130	$0.34	9.47
Jul	2049	9.257	$	0.124	$	9.381	$0.35	9.73
Aug	2049	9.309	$	0.151	$	9.460	$0.35	9.81
Sep	2049	9.142	$	0.071	$	9.214	$0.35	9.56
Oct	2049	8.977	$	0.058	$	9.035	$0.34	9.37
Nov	2049	9.324	$	0.046	$	9.370	$0.35	9.72
Dec	2049	9.702	$	0.062	$	9.764	$0.36	10.13
Jan	2050	9.755	$	0.086	$	9.841	$0.37	10.21
Feb	2050	9.783	$	0.033	$	9.816	$0.37	10.18
Mar	2050	9.486	$	0.006	$	9.492	$0.36	9.85
Apr	2050	9.015	$	0.023	$	9.038	$0.34	9.38
May	2050	9.058	$	0.032	$	9.090	$0.34	9.43
Jun	2050	9.108	$	0.097	$	9.204	$0.35	9.55
Jul	2050	9.393	$	0.124	$	9.517	$0.36	9.87
Aug	2050	9.450	$	0.158	$	9.608	$0.36	9.97
Sep	2050	9.423	$	0.072	$	9.496	$0.36	9.85
Oct	2050	9.119	$	0.063	$	9.182	$0.34	9.53
Nov	2050	9.368	$	0.047	$	9.416	$0.35	9.77
Dec	2050	9.683	$	0.065	$	9.748	$0.36	10.11

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	GSNG MMBTU Variable Cost	GSNG Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.046)	$ 3.064	$0.91	3.97
Feb	2019	2.690	$ (0.019)	$ 2.671	$0.90	3.57
Mar	2019	2.950	$ (0.003)	$ 2.947	$0.90	3.85
Apr	2019	2.650	$ (0.001)	$ 2.649	$0.90	3.55
May	2019	2.640	$ 0.005	$ 2.645	$0.90	3.54
Jun	2019	2.400	$ 0.037	$ 2.437	$0.89	3.33
Jul	2019	2.370	$ 0.048	$ 2.418	$0.89	3.31
Aug	2019	2.220	$ 0.056	$ 2.276	$0.89	3.17
Sep	2019	2.560	$ 0.016	$ 2.576	$0.90	3.47
Oct	2019	2.743	$ 0.010	$ 2.753	$0.90	3.65
Nov	2019	2.303	$ 0.012	$ 2.315	$0.89	3.21
Dec	2019	2.495	$ 0.023	$ 2.518	$0.90	3.41
Jan	2020	2.612	$ 0.035	$ 2.647	$0.90	3.55
Feb	2020	2.575	$ 0.024	$ 2.599	$0.90	3.50
Mar	2020	2.462	$ (0.020)	$ 2.442	$0.89	3.34
Apr	2020	2.247	$ (0.019)	$ 2.228	$0.89	3.12
May	2020	2.234	$ 0.005	$ 2.239	$0.89	3.13
Jun	2020	2.278	$ 0.026	$ 2.304	$0.89	3.20
Jul	2020	2.326	$ 0.048	$ 2.374	$0.89	3.27
Aug	2020	2.335	$ 0.055	$ 2.390	$0.89	3.28
Sep	2020	2.318	$ 0.012	$ 2.330	$0.89	3.22
Oct	2020	2.344	$ 0.016	$ 2.360	$0.89	3.25
Nov	2020	2.409	$ 0.025	$ 2.434	$0.89	3.33
Dec	2020	2.578	$ 0.034	$ 2.612	$0.90	3.51
Jan	2021	2.700	$ 0.038	$ 2.738	$0.90	3.64
Feb	2021	2.661	$ 0.033	$ 2.694	$0.90	3.59
Mar	2021	2.548	$ (0.015)	$ 2.533	$0.90	3.43
Apr	2021	2.284	$ (0.021)	$ 2.263	$0.89	3.15
May	2021	2.260	$ 0.005	$ 2.265	$0.89	3.16
Jun	2021	2.294	$ 0.025	$ 2.319	$0.89	3.21
Jul	2021	2.332	$ 0.047	$ 2.379	$0.89	3.27
Aug	2021	2.339	$ 0.058	$ 2.397	$0.89	3.29
Sep	2021	2.328	$ 0.011	$ 2.339	$0.89	3.23
Oct	2021	2.354	$ 0.018	$ 2.372	$0.89	3.26
Nov	2021	2.424	$ 0.027	$ 2.451	$0.89	3.35
Dec	2021	2.603	$ 0.038	$ 2.641	$0.90	3.54
Jan	2022	2.729	$ 0.041	$ 2.770	$0.90	3.67
Feb	2022	2.702	$ 0.036	$ 2.738	$0.90	3.64
Mar	2022	2.595	$ (0.013)	$ 2.582	$0.90	3.48
Apr	2022	2.340	$ (0.016)	$ 2.324	$0.89	3.22
May	2022	2.324	$ 0.007	$ 2.331	$0.89	3.22
Jun	2022	2.359	$ 0.034	$ 2.393	$0.89	3.29
Jul	2022	2.399	$ 0.059	$ 2.458	$0.89	3.35
Aug	2022	2.411	$ 0.066	$ 2.477	$0.89	3.37
Sep	2022	2.404	$ 0.021	$ 2.425	$0.89	3.32
Oct	2022	2.430	$ 0.024	$ 2.454	$0.89	3.35
Nov	2022	2.492	$ 0.034	$ 2.526	$0.90	3.42
Dec	2022	2.674	$ 0.044	$ 2.718	$0.90	3.62
Jan	2023	2.799	$ 0.052	$ 2.851	$0.90	3.75
Feb	2023	2.767	$ 0.047	$ 2.814	$0.90	3.72
Mar	2023	2.656	$ (0.003)	$ 2.653	$0.90	3.55
Apr	2023	2.401	$ (0.008)	$ 2.393	$0.89	3.29
May	2023	2.385	$ 0.016	$ 2.401	$0.89	3.29
Jun	2023	2.426	$ 0.042	$ 2.468	$0.89	3.36
Jul	2023	2.466	$ 0.068	$ 2.534	$0.90	3.43
Aug	2023	2.481	$ 0.076	$ 2.557	$0.90	3.45
Sep	2023	2.476	$ 0.029	$ 2.505	$0.90	3.40
Oct	2023	2.505	$ 0.030	$ 2.535	$0.90	3.43
Nov	2023	2.580	$ 0.037	$ 2.617	$0.90	3.51
Dec	2023	2.760	$ 0.053	$ 2.813	$0.90	3.71
Jan	2024	2.889	$ 0.058	$ 2.947	$0.90	3.85
Feb	2024	2.866	$ 0.050	$ 2.915	$0.90	3.82
Mar	2024	2.760	$ (0.002)	$ 2.758	$0.90	3.66
Apr	2024	2.534	$ (0.007)	$ 2.527	$0.90	3.42
May	2024	2.531	$ 0.017	$ 2.548	$0.90	3.44
Jun	2024	2.573	$ 0.046	$ 2.619	$0.90	3.52
Jul	2024	2.623	$ 0.077	$ 2.700	$0.90	3.60
Aug	2024	2.644	$ 0.077	$ 2.722	$0.90	3.62
Sep	2024	2.646	$ 0.047	$ 2.693	$0.90	3.59
Oct	2024	2.672	$ 0.040	$ 2.713	$0.90	3.61
Nov	2024	2.758	$ 0.044	$ 2.802	$0.90	3.70
Dec	2024	2.940	$ 0.056	$ 2.996	$0.90	3.90
Jan	2025	3.054	$ 0.061	$ 3.115	$0.91	4.02
Feb	2025	3.048	$ 0.055	$ 3.103	$0.91	4.01
Mar	2025	2.970	$ (0.001)	$ 2.969	$0.90	3.87
Apr	2025	2.799	$ (0.011)	$ 2.789	$0.90	3.69
May	2025	2.811	$ 0.016	$ 2.826	$0.90	3.73
Jun	2025	2.854	$ 0.054	$ 2.908	$0.90	3.81
Jul	2025	2.948	$ 0.078	$ 3.027	$0.91	3.93

GSNG - IT			
Current Yr	2019	√	DJ 10/11
Fuel Retention	1.85%	√	DJ 10/11
100%-B	98.15%		
Total Variable	0.8482		
Esc%	100.00%	√	DJ 10/11
Variable			
GSNG - IT Variable	0.8482	√	DJ 10/11
UFS	0.0000	√	DJ 10/11
Total Variable	0.8482		

Aug	2025	2.980	$	0.078	$	3.058	$0.91	3.96
Sep	2025	2.883	$	0.045	$	2.928	$0.90	3.83
Oct	2025	2.903	$	0.035	$	2.938	$0.90	3.84
Nov	2025	2.990	$	0.036	$	3.026	$0.91	3.93
Dec	2025	3.163	$	0.051	$	3.214	$0.91	4.12
Jan	2026	3.255	$	0.057	$	3.311	$0.91	4.22
Feb	2026	3.255	$	0.053	$	3.308	$0.91	4.22
Mar	2026	3.176	$	(0.003)	$	3.172	$0.91	4.08
Apr	2026	3.042	$	(0.001)	$	3.041	$0.91	3.95
May	2026	3.061	$	0.022	$	3.083	$0.91	3.99
Jun	2026	3.116	$	0.053	$	3.169	$0.91	4.08
Jul	2026	3.276	$	0.077	$	3.353	$0.91	4.26
Aug	2026	3.318	$	0.078	$	3.396	$0.91	4.31
Sep	2026	3.252	$	0.041	$	3.293	$0.91	4.20
Oct	2026	3.247	$	0.034	$	3.280	$0.91	4.19
Nov	2026	3.322	$	0.042	$	3.364	$0.91	4.28
Dec	2026	3.506	$	0.054	$	3.559	$0.92	4.47
Jan	2027	3.583	$	0.062	$	3.645	$0.92	4.56
Feb	2027	3.604	$	0.057	$	3.661	$0.92	4.58
Mar	2027	3.551	$	(0.002)	$	3.549	$0.92	4.46
Apr	2027	3.396	$	(0.002)	$	3.394	$0.91	4.31
May	2027	3.424	$	0.021	$	3.445	$0.91	4.36
Jun	2027	3.498	$	0.051	$	3.549	$0.92	4.46
Jul	2027	3.731	$	0.079	$	3.809	$0.92	4.73
Aug	2027	3.778	$	0.082	$	3.860	$0.92	4.78
Sep	2027	3.768	$	0.043	$	3.812	$0.92	4.73
Oct	2027	3.651	$	0.038	$	3.690	$0.92	4.61
Nov	2027	3.730	$	0.043	$	3.773	$0.92	4.69
Dec	2027	3.930	$	0.054	$	3.984	$0.92	4.91
Jan	2028	3.993	$	0.063	$	4.056	$0.92	4.98
Feb	2028	4.025	$	0.047	$	4.072	$0.92	5.00
Mar	2028	3.948	$	(0.002)	$	3.946	$0.92	4.87
Apr	2028	3.907	$	(0.006)	$	3.900	$0.92	4.82
May	2028	3.947	$	0.024	$	3.971	$0.92	4.89
Jun	2028	4.139	$	0.059	$	4.198	$0.93	5.13
Jul	2028	4.159	$	0.091	$	4.250	$0.93	5.18
Aug	2028	4.214	$	0.089	$	4.304	$0.93	5.23
Sep	2028	4.278	$	0.048	$	4.325	$0.93	5.25
Oct	2028	4.263	$	0.044	$	4.307	$0.93	5.24
Nov	2028	4.329	$	0.046	$	4.375	$0.93	5.31
Dec	2028	4.599	$	0.054	$	4.653	$0.94	5.59
Jan	2029	4.640	$	0.075	$	4.716	$0.94	5.65
Feb	2029	4.669	$	0.068	$	4.737	$0.94	5.67
Mar	2029	4.455	$	0.007	$	4.462	$0.93	5.39
Apr	2029	4.470	$	0.002	$	4.472	$0.93	5.40
May	2029	4.534	$	0.027	$	4.561	$0.93	5.50
Jun	2029	4.657	$	0.062	$	4.719	$0.94	5.66
Jul	2029	4.385	$	0.091	$	4.476	$0.93	5.41
Aug	2029	4.417	$	0.098	$	4.516	$0.93	5.45
Sep	2029	4.535	$	0.053	$	4.588	$0.93	5.52
Oct	2029	4.525	$	0.040	$	4.565	$0.93	5.50
Nov	2029	4.430	$	0.063	$	4.492	$0.93	5.42
Dec	2029	4.634	$	0.062	$	4.696	$0.94	5.63
Jan	2030	4.665	$	0.075	$	4.740	$0.94	5.68
Feb	2030	4.694	$	0.069	$	4.763	$0.94	5.70
Mar	2030	4.583	$	0.004	$	4.587	$0.93	5.52
Apr	2030	4.550	$	(0.008)	$	4.543	$0.93	5.48
May	2030	4.578	$	0.029	$	4.607	$0.94	5.54
Jun	2030	4.653	$	0.069	$	4.721	$0.94	5.66
Jul	2030	4.983	$	0.104	$	5.086	$0.94	6.03
Aug	2030	5.019	$	0.113	$	5.132	$0.94	6.08
Sep	2030	4.946	$	0.056	$	5.002	$0.94	5.94
Oct	2030	4.722	$	0.053	$	4.775	$0.94	5.71
Nov	2030	4.635	$	0.056	$	4.692	$0.94	5.63
Dec	2030	4.861	$	0.064	$	4.925	$0.94	5.87
Jan	2031	4.892	$	0.098	$	4.989	$0.94	5.93
Feb	2031	4.922	$	0.092	$	5.015	$0.94	5.96
Mar	2031	4.825	$	0.019	$	4.845	$0.94	5.78
Apr	2031	4.785	$	0.000	$	4.785	$0.94	5.72
May	2031	4.814	$	0.055	$	4.869	$0.94	5.81
Jun	2031	4.879	$	0.082	$	4.962	$0.94	5.90
Jul	2031	5.209	$	0.116	$	5.325	$0.95	6.27
Aug	2031	5.261	$	0.139	$	5.400	$0.95	6.35
Sep	2031	5.164	$	0.086	$	5.250	$0.95	6.20
Oct	2031	5.003	$	0.082	$	5.085	$0.94	6.03
Nov	2031	5.073	$	0.066	$	5.139	$0.95	6.08
Dec	2031	5.249	$	0.082	$	5.330	$0.95	6.28
Jan	2032	5.281	$	0.106	$	5.388	$0.95	6.34
Feb	2032	5.310	$	0.077	$	5.387	$0.95	6.34
Mar	2032	5.289	$	0.050	$	5.339	$0.95	6.29
Apr	2032	5.127	$	0.026	$	5.153	$0.95	6.10
May	2032	5.155	$	0.069	$	5.224	$0.95	6.17
Jun	2032	5.188	$	0.095	$	5.283	$0.95	6.23
Jul	2032	5.333	$	0.136	$	5.469	$0.95	6.42
Aug	2032	5.378	$	0.159	$	5.538	$0.95	6.49

Sep	2032	5.301	$	0.091	$	5.392	$0.95	6.34
Oct	2032	5.266	$	0.088	$	5.355	$0.95	6.30
Nov	2032	5.389	$	0.053	$	5.443	$0.95	6.39
Dec	2032	5.402	$	0.072	$	5.475	$0.95	6.43
Jan	2033	5.137	$	0.093	$	5.230	$0.95	6.18
Feb	2033	5.172	$	0.091	$	5.263	$0.95	6.21
Mar	2033	5.121	$	0.022	$	5.143	$0.95	6.09
Apr	2033	5.120	$	0.016	$	5.136	$0.95	6.08
May	2033	5.153	$	0.032	$	5.185	$0.95	6.13
Jun	2033	5.189	$	0.080	$	5.269	$0.95	6.22
Jul	2033	5.348	$	0.119	$	5.467	$0.95	6.42
Aug	2033	5.395	$	0.127	$	5.522	$0.95	6.47
Sep	2033	5.324	$	0.068	$	5.393	$0.95	6.34
Oct	2033	5.275	$	0.053	$	5.328	$0.95	6.28
Nov	2033	5.430	$	0.033	$	5.463	$0.95	6.41
Dec	2033	5.620	$	0.047	$	5.668	$0.96	6.62
Jan	2034	5.658	$	0.080	$	5.738	$0.96	6.69
Feb	2034	5.495	$	0.056	$	5.550	$0.95	6.50
Mar	2034	5.336	$	(0.008)	$	5.328	$0.95	6.28
Apr	2034	5.273	$	0.009	$	5.282	$0.95	6.23
May	2034	5.307	$	0.039	$	5.346	$0.95	6.29
Jun	2034	5.342	$	0.084	$	5.426	$0.95	6.38
Jul	2034	5.598	$	0.125	$	5.723	$0.96	6.68
Aug	2034	5.641	$	0.144	$	5.785	$0.96	6.74
Sep	2034	5.534	$	0.074	$	5.608	$0.95	6.56
Oct	2034	5.398	$	0.049	$	5.447	$0.95	6.40
Nov	2034	5.631	$	0.034	$	5.665	$0.95	6.62
Dec	2034	5.829	$	0.055	$	5.884	$0.96	6.84
Jan	2035	5.870	$	0.086	$	5.956	$0.96	6.92
Feb	2035	5.900	$	0.065	$	5.965	$0.96	6.93
Mar	2035	5.720	$	0.018	$	5.739	$0.96	6.70
Apr	2035	5.462	$	0.023	$	5.485	$0.95	6.44
May	2035	5.496	$	0.046	$	5.542	$0.95	6.49
Jun	2035	5.531	$	0.091	$	5.623	$0.95	6.58
Jul	2035	5.817	$	0.130	$	5.947	$0.96	6.91
Aug	2035	5.854	$	0.147	$	6.001	$0.96	6.96
Sep	2035	5.756	$	0.075	$	5.831	$0.96	6.79
Oct	2035	5.608	$	0.048	$	5.656	$0.95	6.61
Nov	2035	5.657	$	0.033	$	5.690	$0.96	6.65
Dec	2035	5.813	$	0.058	$	5.872	$0.96	6.83
Jan	2036	5.851	$	0.093	$	5.944	$0.96	6.90
Feb	2036	5.876	$	0.034	$	5.911	$0.96	6.87
Mar	2036	5.778	$	0.020	$	5.798	$0.96	6.76
Apr	2036	5.552	$	0.023	$	5.575	$0.95	6.53
May	2036	5.586	$	0.049	$	5.636	$0.95	6.59
Jun	2036	5.627	$	0.096	$	5.723	$0.96	6.68
Jul	2036	5.794	$	0.135	$	5.929	$0.96	6.89
Aug	2036	5.835	$	0.150	$	5.985	$0.96	6.95
Sep	2036	5.807	$	0.089	$	5.896	$0.96	6.86
Oct	2036	5.768	$	0.076	$	5.844	$0.96	6.80
Nov	2036	5.846	$	0.051	$	5.897	$0.96	6.86
Dec	2036	6.113	$	0.064	$	6.177	$0.96	7.14
Jan	2037	6.160	$	0.105	$	6.266	$0.97	7.23
Feb	2037	6.199	$	0.081	$	6.281	$0.97	7.25
Mar	2037	6.107	$	0.024	$	6.132	$0.96	7.10
Apr	2037	5.931	$	0.021	$	5.952	$0.96	6.91
May	2037	5.968	$	0.055	$	6.023	$0.96	6.98
Jun	2037	6.027	$	0.111	$	6.138	$0.96	7.10
Jul	2037	6.286	$	0.147	$	6.433	$0.97	7.40
Aug	2037	6.327	$	0.147	$	6.474	$0.97	7.44
Sep	2037	6.240	$	0.096	$	6.336	$0.97	7.30
Oct	2037	6.172	$	0.074	$	6.246	$0.97	7.21
Nov	2037	6.250	$	0.052	$	6.302	$0.97	7.27
Dec	2037	6.511	$	0.078	$	6.589	$0.97	7.56
Jan	2038	6.552	$	0.111	$	6.663	$0.97	7.64
Feb	2038	6.592	$	0.088	$	6.681	$0.97	7.66
Mar	2038	6.491	$	0.026	$	6.517	$0.97	7.49
Apr	2038	6.270	$	0.044	$	6.314	$0.97	7.28
May	2038	6.308	$	0.060	$	6.369	$0.97	7.34
Jun	2038	6.354	$	0.118	$	6.472	$0.97	7.44
Jul	2038	6.534	$	0.152	$	6.686	$0.97	7.66
Aug	2038	6.580	$	0.145	$	6.725	$0.97	7.70
Sep	2038	6.432	$	0.104	$	6.536	$0.97	7.51
Oct	2038	6.367	$	0.064	$	6.431	$0.97	7.40
Nov	2038	6.473	$	0.073	$	6.546	$0.97	7.52
Dec	2038	6.705	$	0.100	$	6.805	$0.98	7.78
Jan	2039	6.748	$	0.119	$	6.866	$0.98	7.84
Feb	2039	6.789	$	0.101	$	6.891	$0.98	7.87
Mar	2039	6.627	$	0.032	$	6.660	$0.97	7.63
Apr	2039	6.202	$	0.041	$	6.243	$0.97	7.21
May	2039	6.237	$	0.052	$	6.290	$0.97	7.26
Jun	2039	6.278	$	0.115	$	6.392	$0.97	7.36
Jul	2039	6.341	$	0.129	$	6.470	$0.97	7.44
Aug	2039	6.890	$	0.145	$	7.035	$0.98	8.02
Sep	2039	6.860	$	0.088	$	6.948	$0.98	7.93

Oct	2039	6.605	$	0.081	$	6.686	$0.97	7.66
Nov	2039	6.680	$	0.063	$	6.743	$0.98	7.72
Dec	2039	6.885	$	0.087	$	6.971	$0.98	7.95
Jan	2040	6.925	$	0.098	$	7.023	$0.98	8.00
Feb	2040	6.962	$	0.061	$	7.022	$0.98	8.00
Mar	2040	6.849	$	0.033	$	6.882	$0.98	7.86
Apr	2040	6.622	$	0.013	$	6.635	$0.97	7.61
May	2040	6.660	$	0.058	$	6.718	$0.97	7.69
Jun	2040	6.717	$	0.108	$	6.824	$0.98	7.80
Jul	2040	6.962	$	0.144	$	7.107	$0.98	8.09
Aug	2040	7.005	$	0.155	$	7.160	$0.98	8.14
Sep	2040	6.991	$	0.098	$	7.089	$0.98	8.07
Oct	2040	6.835	$	0.086	$	6.921	$0.98	7.90
Nov	2040	6.907	$	0.069	$	6.976	$0.98	7.96
Dec	2040	7.143	$	0.111	$	7.255	$0.98	8.24
Jan	2041	7.186	$	0.113	$	7.298	$0.99	8.28
Feb	2041	7.213	$	0.083	$	7.296	$0.99	8.28
Mar	2041	7.060	$	0.037	$	7.097	$0.98	8.08
Apr	2041	6.802	$	0.048	$	6.850	$0.98	7.83
May	2041	6.844	$	0.061	$	6.905	$0.98	7.88
Jun	2041	6.917	$	0.124	$	7.041	$0.98	8.02
Jul	2041	7.221	$	0.166	$	7.387	$0.99	8.37
Aug	2041	7.264	$	0.158	$	7.421	$0.99	8.41
Sep	2041	7.266	$	0.116	$	7.382	$0.99	8.37
Oct	2041	7.027	$	0.061	$	7.088	$0.98	8.07
Nov	2041	7.157	$	0.077	$	7.234	$0.98	8.22
Dec	2041	7.359	$	0.127	$	7.486	$0.99	8.48
Jan	2042	7.402	$	0.120	$	7.523	$0.99	8.51
Feb	2042	7.433	$	0.089	$	7.522	$0.99	8.51
Mar	2042	7.276	$	0.033	$	7.309	$0.99	8.29
Apr	2042	7.072	$	0.045	$	7.117	$0.98	8.10
May	2042	7.115	$	0.063	$	7.179	$0.98	8.16
Jun	2042	7.185	$	0.134	$	7.319	$0.99	8.31
Jul	2042	7.551	$	0.168	$	7.719	$0.99	8.71
Aug	2042	7.599	$	0.171	$	7.770	$0.99	8.76
Sep	2042	7.574	$	0.120	$	7.694	$0.99	8.69
Oct	2042	7.314	$	0.080	$	7.394	$0.99	8.38
Nov	2042	7.355	$	0.075	$	7.429	$0.99	8.42
Dec	2042	7.587	$	0.102	$	7.689	$0.99	8.68
Jan	2043	7.632	$	0.105	$	7.737	$0.99	8.73
Feb	2043	7.656	$	0.058	$	7.715	$0.99	8.71
Mar	2043	7.507	$	0.035	$	7.542	$0.99	8.53
Apr	2043	7.246	$	0.028	$	7.275	$0.99	8.26
May	2043	7.291	$	0.050	$	7.341	$0.99	8.33
Jun	2043	7.346	$	0.106	$	7.452	$0.99	8.44
Jul	2043	7.705	$	0.164	$	7.869	$1.00	8.87
Aug	2043	7.751	$	0.156	$	7.907	$1.00	8.90
Sep	2043	7.776	$	0.091	$	7.866	$1.00	8.86
Oct	2043	7.486	$	0.077	$	7.562	$0.99	8.55
Nov	2043	7.551	$	0.066	$	7.617	$0.99	8.61
Dec	2043	7.795	$	0.097	$	7.892	$1.00	8.89
Jan	2044	7.843	$	0.099	$	7.942	$1.00	8.94
Feb	2044	7.877	$	0.059	$	7.936	$1.00	8.93
Mar	2044	7.712	$	0.025	$	7.737	$0.99	8.73
Apr	2044	7.571	$	0.029	$	7.600	$0.99	8.59
May	2044	7.615	$	0.040	$	7.655	$0.99	8.65
Jun	2044	7.661	$	0.105	$	7.766	$0.99	8.76
Jul	2044	8.012	$	0.160	$	8.173	$1.00	9.18
Aug	2044	8.062	$	0.162	$	8.224	$1.00	9.23
Sep	2044	8.047	$	0.080	$	8.127	$1.00	9.13
Oct	2044	7.844	$	0.045	$	7.889	$1.00	8.89
Nov	2044	7.965	$	0.060	$	8.025	$1.00	9.02
Dec	2044	8.212	$	0.099	$	8.311	$1.00	9.32
Jan	2045	8.261	$	0.107	$	8.368	$1.01	9.37
Feb	2045	8.310	$	0.056	$	8.366	$1.01	9.37
Mar	2045	8.177	$	0.031	$	8.208	$1.00	9.21
Apr	2045	7.989	$	0.026	$	8.015	$1.00	9.01
May	2045	8.031	$	0.042	$	8.072	$1.00	9.07
Jun	2045	8.080	$	0.109	$	8.189	$1.00	9.19
Jul	2045	8.453	$	0.157	$	8.610	$1.01	9.62
Aug	2045	8.506	$	0.169	$	8.676	$1.01	9.69
Sep	2045	8.521	$	0.085	$	8.606	$1.01	9.62
Oct	2045	8.268	$	0.062	$	8.331	$1.01	9.34
Nov	2045	8.402	$	0.062	$	8.464	$1.01	9.47
Dec	2045	8.652	$	0.096	$	8.748	$1.01	9.76
Jan	2046	8.703	$	0.115	$	8.818	$1.01	9.83
Feb	2046	8.730	$	0.062	$	8.792	$1.01	9.81
Mar	2046	8.526	$	0.022	$	8.549	$1.01	9.56
Apr	2046	8.288	$	0.018	$	8.306	$1.00	9.31
May	2046	8.324	$	0.043	$	8.368	$1.01	9.37
Jun	2046	8.374	$	0.110	$	8.484	$1.01	9.49
Jul	2046	8.801	$	0.158	$	8.959	$1.02	9.98
Aug	2046	8.857	$	0.176	$	9.033	$1.02	10.05
Sep	2046	8.828	$	0.081	$	8.909	$1.02	9.93
Oct	2046	8.549	$	0.062	$	8.611	$1.01	9.62

Nov	2046	8.628	$	0.064	$	8.692	$1.01	9.70
Dec	2046	8.854	$	0.103	$	8.957	$1.02	9.97
Jan	2047	8.906	$	0.126	$	9.032	$1.02	10.05
Feb	2047	8.921	$	0.058	$	8.979	$1.02	10.00
Mar	2047	8.604	$	0.019	$	8.622	$1.01	9.63
Apr	2047	8.403	$	0.022	$	8.425	$1.01	9.43
May	2047	8.437	$	0.039	$	8.476	$1.01	9.48
Jun	2047	8.486	$	0.123	$	8.610	$1.01	9.62
Jul	2047	8.902	$	0.165	$	9.067	$1.02	10.09
Aug	2047	8.958	$	0.182	$	9.140	$1.02	10.16
Sep	2047	8.954	$	0.088	$	9.042	$1.02	10.06
Oct	2047	8.794	$	0.052	$	8.846	$1.01	9.86
Nov	2047	8.872	$	0.052	$	8.924	$1.02	9.94
Dec	2047	8.907	$	0.093	$	9.001	$1.02	10.02
Jan	2048	8.959	$	0.109	$	9.068	$1.02	10.09
Feb	2048	9.002	$	0.036	$	9.038	$1.02	10.06
Mar	2048	8.799	$	0.007	$	8.806	$1.01	9.82
Apr	2048	8.672	$	0.022	$	8.694	$1.01	9.71
May	2048	8.721	$	0.032	$	8.753	$1.01	9.77
Jun	2048	8.811	$	0.099	$	8.910	$1.02	9.93
Jul	2048	9.345	$	0.136	$	9.480	$1.03	10.51
Aug	2048	9.410	$	0.181	$	9.591	$1.03	10.62
Sep	2048	9.428	$	0.072	$	9.500	$1.03	10.53
Oct	2048	9.043	$	0.058	$	9.101	$1.02	10.12
Nov	2048	9.185	$	0.046	$	9.231	$1.02	10.25
Dec	2048	9.448	$	0.061	$	9.509	$1.03	10.54
Jan	2049	9.502	$	0.085	$	9.587	$1.03	10.62
Feb	2049	9.512	$	0.031	$	9.544	$1.03	10.57
Mar	2049	9.452	$	0.007	$	9.458	$1.03	10.48
Apr	2049	9.346	$	0.019	$	9.365	$1.02	10.39
May	2049	8.991	$	0.033	$	9.023	$1.02	10.04
Jun	2049	9.041	$	0.089	$	9.130	$1.02	10.15
Jul	2049	9.257	$	0.124	$	9.381	$1.03	10.41
Aug	2049	9.309	$	0.151	$	9.460	$1.03	10.49
Sep	2049	9.142	$	0.071	$	9.214	$1.02	10.24
Oct	2049	8.977	$	0.058	$	9.035	$1.02	10.05
Nov	2049	9.324	$	0.046	$	9.370	$1.02	10.39
Dec	2049	9.702	$	0.062	$	9.764	$1.03	10.80
Jan	2050	9.755	$	0.086	$	9.841	$1.03	10.87
Feb	2050	9.783	$	0.033	$	9.816	$1.03	10.85
Mar	2050	9.486	$	0.006	$	9.492	$1.03	10.52
Apr	2050	9.015	$	0.023	$	9.038	$1.02	10.06
May	2050	9.058	$	0.032	$	9.090	$1.02	10.11
Jun	2050	9.108	$	0.097	$	9.204	$1.02	10.23
Jul	2050	9.393	$	0.124	$	9.517	$1.03	10.54
Aug	2050	9.450	$	0.158	$	9.608	$1.03	10.64
Sep	2050	9.423	$	0.072	$	9.496	$1.03	10.52
Oct	2050	9.119	$	0.063	$	9.182	$1.02	10.20
Nov	2050	9.368	$	0.047	$	9.416	$1.03	10.44
Dec	2050	9.683	$	0.065	$	9.748	$1.03	10.78

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis Transco Zone 4	Base Cost Regular Supply Z4	Sabal Trail MMBTU Variable Cost	Sabal Trail Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.055)	$ 3.055	$0.10	3.16
Feb	2019	2.690	$ (0.035)	$ 2.655	$0.09	2.74
Mar	2019	2.950	$ (0.050)	$ 2.900	$0.10	3.00
Apr	2019	2.650	$ (0.030)	$ 2.620	$0.09	2.71
May	2019	2.640	$ (0.004)	$ 2.636	$0.09	2.73
Jun	2019	2.400	$ 0.003	$ 2.403	$0.08	2.48
Jul	2019	2.370	$ 0.011	$ 2.381	$0.08	2.46
Aug	2019	2.220	$ 0.011	$ 2.231	$0.08	2.31
Sep	2019	2.560	$ 0.002	$ 2.562	$0.09	2.65
Oct	2019	2.743	$ (0.030)	$ 2.713	$0.09	2.80
Nov	2019	2.303	$ (0.021)	$ 2.282	$0.08	2.36
Dec	2019	2.495	$ (0.007)	$ 2.488	$0.08	2.57
Jan	2020	2.612	$ (0.009)	$ 2.603	$0.09	2.69
Feb	2020	2.575	$ (0.024)	$ 2.551	$0.09	2.64
Mar	2020	2.462	$ (0.021)	$ 2.441	$0.08	2.52
Apr	2020	2.247	$ (0.051)	$ 2.196	$0.07	2.27
May	2020	2.234	$ (0.050)	$ 2.184	$0.07	2.26
Jun	2020	2.278	$ (0.040)	$ 2.238	$0.08	2.31
Jul	2020	2.326	$ (0.027)	$ 2.299	$0.08	2.38
Aug	2020	2.335	$ (0.006)	$ 2.329	$0.08	2.41
Sep	2020	2.318	$ (0.045)	$ 2.273	$0.08	2.35
Oct	2020	2.344	$ (0.063)	$ 2.281	$0.08	2.36
Nov	2020	2.409	$ (0.031)	$ 2.378	$0.08	2.46
Dec	2020	2.578	$ (0.024)	$ 2.554	$0.09	2.64
Jan	2021	2.700	$ (0.010)	$ 2.690	$0.09	2.78
Feb	2021	2.661	$ (0.026)	$ 2.635	$0.09	2.72
Mar	2021	2.548	$ (0.017)	$ 2.531	$0.09	2.62
Apr	2021	2.284	$ (0.072)	$ 2.212	$0.08	2.29
May	2021	2.260	$ (0.066)	$ 2.194	$0.07	2.27
Jun	2021	2.294	$ (0.048)	$ 2.246	$0.08	2.32
Jul	2021	2.332	$ (0.039)	$ 2.293	$0.08	2.37
Aug	2021	2.339	$ (0.020)	$ 2.319	$0.08	2.40
Sep	2021	2.328	$ (0.054)	$ 2.274	$0.08	2.35
Oct	2021	2.354	$ (0.061)	$ 2.293	$0.08	2.37
Nov	2021	2.424	$ (0.036)	$ 2.388	$0.08	2.47
Dec	2021	2.603	$ (0.023)	$ 2.580	$0.09	2.67
Jan	2022	2.729	$ (0.017)	$ 2.712	$0.09	2.80
Feb	2022	2.702	$ (0.027)	$ 2.675	$0.09	2.77
Mar	2022	2.595	$ (0.029)	$ 2.566	$0.09	2.65
Apr	2022	2.340	$ (0.067)	$ 2.273	$0.08	2.35
May	2022	2.324	$ (0.067)	$ 2.257	$0.08	2.33
Jun	2022	2.359	$ (0.044)	$ 2.315	$0.08	2.39
Jul	2022	2.399	$ (0.024)	$ 2.375	$0.08	2.46
Aug	2022	2.411	$ (0.015)	$ 2.396	$0.08	2.48
Sep	2022	2.404	$ (0.049)	$ 2.355	$0.08	2.43
Oct	2022	2.430	$ (0.058)	$ 2.372	$0.08	2.45
Nov	2022	2.492	$ (0.032)	$ 2.460	$0.08	2.54
Dec	2022	2.674	$ (0.015)	$ 2.659	$0.09	2.75
Jan	2023	2.799	$ (0.019)	$ 2.780	$0.09	2.87
Feb	2023	2.767	$ (0.034)	$ 2.733	$0.09	2.83
Mar	2023	2.656	$ (0.028)	$ 2.628	$0.09	2.72
Apr	2023	2.401	$ (0.068)	$ 2.333	$0.08	2.41
May	2023	2.385	$ (0.064)	$ 2.321	$0.08	2.40
Jun	2023	2.426	$ (0.050)	$ 2.376	$0.08	2.46
Jul	2023	2.466	$ (0.040)	$ 2.426	$0.08	2.51
Aug	2023	2.481	$ (0.029)	$ 2.452	$0.08	2.54
Sep	2023	2.476	$ (0.050)	$ 2.426	$0.08	2.51
Oct	2023	2.505	$ (0.061)	$ 2.444	$0.08	2.53
Nov	2023	2.580	$ (0.046)	$ 2.534	$0.09	2.62
Dec	2023	2.760	$ (0.023)	$ 2.737	$0.09	2.83
Jan	2024	2.889	$ (0.030)	$ 2.859	$0.10	2.96
Feb	2024	2.866	$ (0.044)	$ 2.821	$0.10	2.92
Mar	2024	2.760	$ (0.046)	$ 2.714	$0.09	2.81
Apr	2024	2.534	$ (0.086)	$ 2.449	$0.08	2.53
May	2024	2.531	$ (0.081)	$ 2.450	$0.08	2.53
Jun	2024	2.573	$ (0.060)	$ 2.514	$0.09	2.60

Sabal Trail			
Current Yr	2019	√	DJ 10/11
Fuel Retention	3.15%	√	DJ 10/11
100%-B	96.85%		
Total Variable	0.0034		
Esc%	100.00%	√	DJ 10/11
Variable			
Usage Rate	0.0021	√	DJ 10/11
ACA	0.0013	√	DJ 10/11
Total Variable	0.0034		

Jul	2024	2.623	$	(0.045)	$	2.578	$0.09	2.67
Aug	2024	2.644	$	(0.028)	$	2.616	$0.09	2.70
Sep	2024	2.646	$	(0.060)	$	2.586	$0.09	2.67
Oct	2024	2.672	$	(0.060)	$	2.612	$0.09	2.70
Nov	2024	2.758	$	(0.050)	$	2.709	$0.09	2.80
Dec	2024	2.940	$	(0.038)	$	2.902	$0.10	3.00
Jan	2025	3.054	$	(0.030)	$	3.024	$0.10	3.13
Feb	2025	3.048	$	(0.044)	$	3.004	$0.10	3.11
Mar	2025	2.970	$	(0.048)	$	2.923	$0.10	3.02
Apr	2025	2.799	$	(0.098)	$	2.702	$0.09	2.79
May	2025	2.811	$	(0.093)	$	2.717	$0.09	2.81
Jun	2025	2.854	$	(0.060)	$	2.794	$0.09	2.89
Jul	2025	2.948	$	(0.038)	$	2.911	$0.10	3.01
Aug	2025	2.980	$	(0.025)	$	2.955	$0.10	3.05
Sep	2025	2.883	$	(0.059)	$	2.824	$0.10	2.92
Oct	2025	2.903	$	(0.078)	$	2.825	$0.10	2.92
Nov	2025	2.990	$	(0.065)	$	2.925	$0.10	3.02
Dec	2025	3.163	$	(0.055)	$	3.108	$0.10	3.21
Jan	2026	3.255	$	(0.045)	$	3.209	$0.11	3.32
Feb	2026	3.255	$	(0.053)	$	3.202	$0.11	3.31
Mar	2026	3.176	$	(0.059)	$	3.116	$0.10	3.22
Apr	2026	3.042	$	(0.089)	$	2.952	$0.10	3.05
May	2026	3.061	$	(0.088)	$	2.973	$0.10	3.07
Jun	2026	3.116	$	(0.060)	$	3.056	$0.10	3.16
Jul	2026	3.276	$	(0.044)	$	3.232	$0.11	3.34
Aug	2026	3.318	$	(0.036)	$	3.281	$0.11	3.39
Sep	2026	3.252	$	(0.063)	$	3.189	$0.11	3.30
Oct	2026	3.247	$	(0.088)	$	3.158	$0.11	3.26
Nov	2026	3.322	$	(0.064)	$	3.258	$0.11	3.37
Dec	2026	3.506	$	(0.049)	$	3.457	$0.12	3.57
Jan	2027	3.583	$	(0.040)	$	3.544	$0.12	3.66
Feb	2027	3.604	$	(0.052)	$	3.552	$0.12	3.67
Mar	2027	3.551	$	(0.064)	$	3.487	$0.12	3.60
Apr	2027	3.396	$	(0.097)	$	3.299	$0.11	3.41
May	2027	3.424	$	(0.096)	$	3.328	$0.11	3.44
Jun	2027	3.498	$	(0.060)	$	3.438	$0.12	3.55
Jul	2027	3.731	$	(0.044)	$	3.687	$0.12	3.81
Aug	2027	3.778	$	(0.034)	$	3.743	$0.13	3.87
Sep	2027	3.768	$	(0.066)	$	3.702	$0.12	3.83
Oct	2027	3.651	$	(0.088)	$	3.563	$0.12	3.68
Nov	2027	3.730	$	(0.064)	$	3.666	$0.12	3.79
Dec	2027	3.930	$	(0.047)	$	3.883	$0.13	4.01
Jan	2028	3.993	$	(0.035)	$	3.958	$0.13	4.09
Feb	2028	4.025	$	(0.059)	$	3.965	$0.13	4.10
Mar	2028	3.948	$	(0.066)	$	3.882	$0.13	4.01
Apr	2028	3.907	$	(0.110)	$	3.797	$0.13	3.92
May	2028	3.947	$	(0.100)	$	3.847	$0.13	3.98
Jun	2028	4.139	$	(0.057)	$	4.082	$0.14	4.22
Jul	2028	4.159	$	(0.036)	$	4.123	$0.14	4.26
Aug	2028	4.214	$	(0.026)	$	4.189	$0.14	4.33
Sep	2028	4.278	$	(0.063)	$	4.215	$0.14	4.36
Oct	2028	4.263	$	(0.086)	$	4.177	$0.14	4.32
Nov	2028	4.329	$	(0.066)	$	4.263	$0.14	4.41
Dec	2028	4.599	$	(0.054)	$	4.544	$0.15	4.70
Jan	2029	4.640	$	(0.034)	$	4.607	$0.15	4.76
Feb	2029	4.669	$	(0.048)	$	4.621	$0.15	4.77
Mar	2029	4.455	$	(0.061)	$	4.394	$0.15	4.54
Apr	2029	4.470	$	(0.109)	$	4.361	$0.15	4.51
May	2029	4.534	$	(0.104)	$	4.430	$0.15	4.58
Jun	2029	4.657	$	(0.072)	$	4.585	$0.15	4.74
Jul	2029	4.385	$	(0.048)	$	4.337	$0.14	4.48
Aug	2029	4.417	$	(0.033)	$	4.384	$0.15	4.53
Sep	2029	4.535	$	(0.072)	$	4.463	$0.15	4.61
Oct	2029	4.525	$	(0.098)	$	4.427	$0.15	4.57
Nov	2029	4.430	$	(0.044)	$	4.386	$0.15	4.53
Dec	2029	4.634	$	(0.043)	$	4.590	$0.15	4.74
Jan	2030	4.665	$	(0.028)	$	4.637	$0.15	4.79
Feb	2030	4.694	$	(0.042)	$	4.652	$0.15	4.81
Mar	2030	4.583	$	(0.052)	$	4.531	$0.15	4.68
Apr	2030	4.550	$	(0.123)	$	4.428	$0.15	4.58
May	2030	4.578	$	(0.101)	$	4.477	$0.15	4.63
Jun	2030	4.653	$	(0.047)	$	4.606	$0.15	4.76
Jul	2030	4.983	$	(0.019)	$	4.964	$0.16	5.13

Aug	2030	5.019	$ 0.003	$ 5.022	$0.17	5.19
Sep	2030	4.946	$ (0.055)	$ 4.891	$0.16	5.05
Oct	2030	4.722	$ (0.079)	$ 4.643	$0.15	4.80
Nov	2030	4.635	$ (0.043)	$ 4.592	$0.15	4.74
Dec	2030	4.861	$ (0.041)	$ 4.820	$0.16	4.98
Jan	2031	4.892	$ (0.043)	$ 4.849	$0.16	5.01
Feb	2031	4.922	$ (0.053)	$ 4.870	$0.16	5.03
Mar	2031	4.825	$ (0.063)	$ 4.762	$0.16	4.92
Apr	2031	4.785	$ (0.128)	$ 4.656	$0.15	4.81
May	2031	4.814	$ (0.103)	$ 4.711	$0.16	4.87
Jun	2031	4.879	$ (0.062)	$ 4.817	$0.16	4.98
Jul	2031	5.209	$ (0.035)	$ 5.174	$0.17	5.35
Aug	2031	5.261	$ (0.039)	$ 5.222	$0.17	5.40
Sep	2031	5.164	$ (0.054)	$ 5.110	$0.17	5.28
Oct	2031	5.003	$ (0.080)	$ 4.922	$0.16	5.09
Nov	2031	5.073	$ (0.063)	$ 5.010	$0.17	5.18
Dec	2031	5.249	$ (0.053)	$ 5.196	$0.17	5.37
Jan	2032	5.281	$ (0.049)	$ 5.232	$0.17	5.41
Feb	2032	5.310	$ (0.059)	$ 5.251	$0.17	5.43
Mar	2032	5.289	$ (0.066)	$ 5.223	$0.17	5.40
Apr	2032	5.127	$ (0.130)	$ 4.997	$0.17	5.16
May	2032	5.155	$ (0.100)	$ 5.055	$0.17	5.22
Jun	2032	5.188	$ (0.058)	$ 5.130	$0.17	5.30
Jul	2032	5.333	$ (0.038)	$ 5.295	$0.18	5.47
Aug	2032	5.378	$ (0.029)	$ 5.350	$0.18	5.53
Sep	2032	5.301	$ (0.053)	$ 5.248	$0.17	5.42
Oct	2032	5.266	$ (0.081)	$ 5.185	$0.17	5.36
Nov	2032	5.389	$ (0.106)	$ 5.283	$0.18	5.46
Dec	2032	5.402	$ (0.077)	$ 5.325	$0.18	5.50
Jan	2033	5.137	$ (0.063)	$ 5.074	$0.17	5.24
Feb	2033	5.172	$ (0.073)	$ 5.099	$0.17	5.27
Mar	2033	5.121	$ (0.104)	$ 5.018	$0.17	5.18
Apr	2033	5.120	$ (0.144)	$ 4.976	$0.17	5.14
May	2033	5.153	$ (0.136)	$ 5.017	$0.17	5.18
Jun	2033	5.189	$ (0.080)	$ 5.109	$0.17	5.28
Jul	2033	5.348	$ (0.043)	$ 5.305	$0.18	5.48
Aug	2033	5.395	$ (0.023)	$ 5.372	$0.18	5.55
Sep	2033	5.324	$ (0.076)	$ 5.248	$0.17	5.42
Oct	2033	5.275	$ (0.124)	$ 5.151	$0.17	5.32
Nov	2033	5.430	$ (0.109)	$ 5.321	$0.18	5.50
Dec	2033	5.620	$ (0.081)	$ 5.540	$0.18	5.72
Jan	2034	5.658	$ (0.063)	$ 5.595	$0.19	5.78
Feb	2034	5.495	$ (0.073)	$ 5.421	$0.18	5.60
Mar	2034	5.336	$ (0.110)	$ 5.226	$0.17	5.40
Apr	2034	5.273	$ (0.134)	$ 5.138	$0.17	5.31
May	2034	5.307	$ (0.133)	$ 5.173	$0.17	5.34
Jun	2034	5.342	$ (0.080)	$ 5.262	$0.17	5.44
Jul	2034	5.598	$ (0.044)	$ 5.554	$0.18	5.74
Aug	2034	5.641	$ (0.024)	$ 5.616	$0.19	5.80
Sep	2034	5.534	$ (0.078)	$ 5.456	$0.18	5.64
Oct	2034	5.398	$ (0.131)	$ 5.267	$0.17	5.44
Nov	2034	5.631	$ (0.108)	$ 5.523	$0.18	5.71
Dec	2034	5.829	$ (0.073)	$ 5.756	$0.19	5.95
Jan	2035	5.870	$ (0.063)	$ 5.807	$0.19	6.00
Feb	2035	5.900	$ (0.073)	$ 5.827	$0.19	6.02
Mar	2035	5.720	$ (0.110)	$ 5.611	$0.19	5.80
Apr	2035	5.462	$ (0.140)	$ 5.322	$0.18	5.50
May	2035	5.496	$ (0.134)	$ 5.362	$0.18	5.54
Jun	2035	5.531	$ (0.080)	$ 5.451	$0.18	5.63
Jul	2035	5.817	$ (0.039)	$ 5.778	$0.19	5.97
Aug	2035	5.854	$ (0.027)	$ 5.827	$0.19	6.02
Sep	2035	5.756	$ (0.078)	$ 5.678	$0.19	5.87
Oct	2035	5.608	$ (0.132)	$ 5.476	$0.18	5.66
Nov	2035	5.657	$ (0.110)	$ 5.547	$0.18	5.73
Dec	2035	5.813	$ (0.070)	$ 5.743	$0.19	5.93
Jan	2036	5.851	$ (0.063)	$ 5.788	$0.19	5.98
Feb	2036	5.876	$ (0.080)	$ 5.796	$0.19	5.99
Mar	2036	5.778	$ (0.110)	$ 5.668	$0.19	5.86
Apr	2036	5.552	$ (0.143)	$ 5.409	$0.18	5.59
May	2036	5.586	$ (0.133)	$ 5.453	$0.18	5.63
Jun	2036	5.627	$ (0.083)	$ 5.544	$0.18	5.73
Jul	2036	5.794	$ (0.040)	$ 5.753	$0.19	5.94
Aug	2036	5.835	$ (0.030)	$ 5.805	$0.19	6.00

Sep	2036	5.807	$	(0.074)	$	5.733	$0.19	5.92
Oct	2036	5.768	$	(0.124)	$	5.644	$0.19	5.83
Nov	2036	5.846	$	(0.109)	$	5.737	$0.19	5.93
Dec	2036	6.113	$	(0.070)	$	6.043	$0.20	6.24
Jan	2037	6.160	$	(0.059)	$	6.102	$0.20	6.30
Feb	2037	6.199	$	(0.069)	$	6.130	$0.20	6.33
Mar	2037	6.107	$	(0.114)	$	5.994	$0.20	6.19
Apr	2037	5.931	$	(0.142)	$	5.789	$0.19	5.98
May	2037	5.968	$	(0.138)	$	5.830	$0.19	6.02
Jun	2037	6.027	$	(0.078)	$	5.949	$0.20	6.15
Jul	2037	6.286	$	(0.038)	$	6.248	$0.21	6.45
Aug	2037	6.327	$	(0.030)	$	6.298	$0.21	6.51
Sep	2037	6.240	$	(0.073)	$	6.167	$0.20	6.37
Oct	2037	6.172	$	(0.136)	$	6.036	$0.20	6.24
Nov	2037	6.250	$	(0.121)	$	6.129	$0.20	6.33
Dec	2037	6.511	$	(0.071)	$	6.440	$0.21	6.65
Jan	2038	6.552	$	(0.063)	$	6.489	$0.21	6.70
Feb	2038	6.592	$	(0.075)	$	6.517	$0.22	6.73
Mar	2038	6.491	$	(0.122)	$	6.369	$0.21	6.58
Apr	2038	6.270	$	(0.142)	$	6.127	$0.20	6.33
May	2038	6.308	$	(0.141)	$	6.167	$0.20	6.37
Jun	2038	6.354	$	(0.083)	$	6.271	$0.21	6.48
Jul	2038	6.534	$	(0.042)	$	6.492	$0.21	6.71
Aug	2038	6.580	$	(0.037)	$	6.543	$0.22	6.76
Sep	2038	6.432	$	(0.075)	$	6.358	$0.21	6.57
Oct	2038	6.367	$	(0.139)	$	6.229	$0.21	6.43
Nov	2038	6.473	$	(0.119)	$	6.354	$0.21	6.56
Dec	2038	6.705	$	(0.072)	$	6.633	$0.22	6.85
Jan	2039	6.748	$	(0.063)	$	6.685	$0.22	6.91
Feb	2039	6.789	$	(0.073)	$	6.716	$0.22	6.94
Mar	2039	6.627	$	(0.122)	$	6.505	$0.21	6.72
Apr	2039	6.202	$	(0.152)	$	6.050	$0.20	6.25
May	2039	6.237	$	(0.149)	$	6.088	$0.20	6.29
Jun	2039	6.278	$	(0.092)	$	6.186	$0.20	6.39
Jul	2039	6.341	$	(0.057)	$	6.284	$0.21	6.49
Aug	2039	6.890	$	(0.045)	$	6.845	$0.23	7.07
Sep	2039	6.860	$	(0.080)	$	6.780	$0.22	7.00
Oct	2039	6.605	$	(0.141)	$	6.464	$0.21	6.68
Nov	2039	6.680	$	(0.121)	$	6.558	$0.22	6.77
Dec	2039	6.885	$	(0.085)	$	6.800	$0.22	7.02
Jan	2040	6.925	$	(0.067)	$	6.858	$0.23	7.08
Feb	2040	6.962	$	(0.108)	$	6.854	$0.23	7.08
Mar	2040	6.849	$	(0.124)	$	6.725	$0.22	6.95
Apr	2040	6.622	$	(0.152)	$	6.470	$0.21	6.68
May	2040	6.660	$	(0.152)	$	6.508	$0.22	6.72
Jun	2040	6.717	$	(0.098)	$	6.618	$0.22	6.84
Jul	2040	6.962	$	(0.055)	$	6.908	$0.23	7.14
Aug	2040	7.005	$	(0.039)	$	6.966	$0.23	7.20
Sep	2040	6.991	$	(0.083)	$	6.908	$0.23	7.14
Oct	2040	6.835	$	(0.152)	$	6.683	$0.22	6.90
Nov	2040	6.907	$	(0.131)	$	6.776	$0.22	7.00
Dec	2040	7.143	$	(0.072)	$	7.071	$0.23	7.30
Jan	2041	7.186	$	(0.063)	$	7.123	$0.24	7.36
Feb	2041	7.213	$	(0.092)	$	7.121	$0.24	7.36
Mar	2041	7.060	$	(0.125)	$	6.934	$0.23	7.16
Apr	2041	6.802	$	(0.153)	$	6.649	$0.22	6.87
May	2041	6.844	$	(0.154)	$	6.690	$0.22	6.91
Jun	2041	6.917	$	(0.090)	$	6.827	$0.23	7.05
Jul	2041	7.221	$	(0.040)	$	7.181	$0.24	7.42
Aug	2041	7.264	$	(0.027)	$	7.237	$0.24	7.48
Sep	2041	7.266	$	(0.081)	$	7.186	$0.24	7.42
Oct	2041	7.027	$	(0.155)	$	6.872	$0.23	7.10
Nov	2041	7.157	$	(0.129)	$	7.027	$0.23	7.26
Dec	2041	7.359	$	(0.063)	$	7.296	$0.24	7.54
Jan	2042	7.402	$	(0.053)	$	7.349	$0.24	7.59
Feb	2042	7.433	$	(0.087)	$	7.346	$0.24	7.59
Mar	2042	7.276	$	(0.138)	$	7.138	$0.24	7.37
Apr	2042	7.072	$	(0.162)	$	6.910	$0.23	7.14
May	2042	7.115	$	(0.156)	$	6.959	$0.23	7.19
Jun	2042	7.185	$	(0.083)	$	7.102	$0.23	7.34
Jul	2042	7.551	$	(0.046)	$	7.506	$0.25	7.75
Aug	2042	7.599	$	(0.011)	$	7.588	$0.25	7.84
Sep	2042	7.574	$	(0.072)	$	7.502	$0.25	7.75

Oct	2042	7.314	$	(0.154)	$	7.160	$0.24	7.40
Nov	2042	7.355	$	(0.139)	$	7.216	$0.24	7.45
Dec	2042	7.587	$	(0.131)	$	7.456	$0.25	7.70
Jan	2043	7.632	$	(0.104)	$	7.528	$0.25	7.78
Feb	2043	7.656	$	(0.152)	$	7.504	$0.25	7.75
Mar	2043	7.507	$	(0.140)	$	7.366	$0.24	7.61
Apr	2043	7.246	$	(0.194)	$	7.053	$0.23	7.29
May	2043	7.291	$	(0.186)	$	7.105	$0.23	7.34
Jun	2043	7.346	$	(0.159)	$	7.187	$0.24	7.42
Jul	2043	7.705	$	(0.076)	$	7.628	$0.25	7.88
Aug	2043	7.751	$	(0.060)	$	7.690	$0.25	7.94
Sep	2043	7.776	$	(0.169)	$	7.607	$0.25	7.86
Oct	2043	7.486	$	(0.166)	$	7.320	$0.24	7.56
Nov	2043	7.551	$	(0.160)	$	7.390	$0.24	7.63
Dec	2043	7.795	$	(0.143)	$	7.652	$0.25	7.90
Jan	2044	7.843	$	(0.120)	$	7.723	$0.25	7.98
Feb	2044	7.877	$	(0.155)	$	7.721	$0.25	7.98
Mar	2044	7.712	$	(0.165)	$	7.547	$0.25	7.80
Apr	2044	7.571	$	(0.215)	$	7.356	$0.24	7.60
May	2044	7.615	$	(0.215)	$	7.400	$0.24	7.64
Jun	2044	7.661	$	(0.169)	$	7.492	$0.25	7.74
Jul	2044	8.012	$	(0.082)	$	7.930	$0.26	8.19
Aug	2044	8.062	$	(0.060)	$	8.002	$0.26	8.27
Sep	2044	8.047	$	(0.194)	$	7.854	$0.26	8.11
Oct	2044	7.844	$	(0.218)	$	7.625	$0.25	7.88
Nov	2044	7.965	$	(0.183)	$	7.783	$0.26	8.04
Dec	2044	8.212	$	(0.152)	$	8.060	$0.27	8.33
Jan	2045	8.261	$	(0.119)	$	8.142	$0.27	8.41
Feb	2045	8.310	$	(0.173)	$	8.137	$0.27	8.41
Mar	2045	8.177	$	(0.164)	$	8.012	$0.26	8.28
Apr	2045	7.989	$	(0.226)	$	7.763	$0.26	8.02
May	2045	8.031	$	(0.221)	$	7.809	$0.26	8.07
Jun	2045	8.080	$	(0.174)	$	7.907	$0.26	8.17
Jul	2045	8.453	$	(0.090)	$	8.363	$0.28	8.64
Aug	2045	8.506	$	(0.064)	$	8.443	$0.28	8.72
Sep	2045	8.521	$	(0.197)	$	8.324	$0.27	8.60
Oct	2045	8.268	$	(0.221)	$	8.047	$0.27	8.31
Nov	2045	8.402	$	(0.190)	$	8.212	$0.27	8.48
Dec	2045	8.652	$	(0.160)	$	8.492	$0.28	8.77
Jan	2046	8.703	$	(0.110)	$	8.593	$0.28	8.88
Feb	2046	8.730	$	(0.174)	$	8.556	$0.28	8.84
Mar	2046	8.526	$	(0.191)	$	8.336	$0.27	8.61
Apr	2046	8.288	$	(0.238)	$	8.050	$0.27	8.32
May	2046	8.324	$	(0.227)	$	8.098	$0.27	8.36
Jun	2046	8.374	$	(0.177)	$	8.197	$0.27	8.47
Jul	2046	8.801	$	(0.096)	$	8.704	$0.29	8.99
Aug	2046	8.857	$	(0.058)	$	8.799	$0.29	9.09
Sep	2046	8.828	$	(0.199)	$	8.629	$0.28	8.91
Oct	2046	8.549	$	(0.222)	$	8.327	$0.27	8.60
Nov	2046	8.628	$	(0.193)	$	8.434	$0.28	8.71
Dec	2046	8.854	$	(0.151)	$	8.702	$0.29	8.99
Jan	2047	8.906	$	(0.104)	$	8.802	$0.29	9.09
Feb	2047	8.921	$	(0.193)	$	8.728	$0.29	9.02
Mar	2047	8.604	$	(0.210)	$	8.394	$0.28	8.67
Apr	2047	8.403	$	(0.255)	$	8.149	$0.27	8.42
May	2047	8.437	$	(0.242)	$	8.195	$0.27	8.46
Jun	2047	8.486	$	(0.153)	$	8.334	$0.27	8.61
Jul	2047	8.902	$	(0.091)	$	8.811	$0.29	9.10
Aug	2047	8.958	$	(0.054)	$	8.904	$0.29	9.20
Sep	2047	8.954	$	(0.165)	$	8.789	$0.29	9.08
Oct	2047	8.794	$	(0.234)	$	8.560	$0.28	8.84
Nov	2047	8.872	$	(0.232)	$	8.640	$0.28	8.92
Dec	2047	8.907	$	(0.180)	$	8.728	$0.29	9.02
Jan	2048	8.959	$	(0.123)	$	8.836	$0.29	9.13
Feb	2048	9.002	$	(0.214)	$	8.789	$0.29	9.08
Mar	2048	8.799	$	(0.225)	$	8.574	$0.28	8.86
Apr	2048	8.672	$	(0.258)	$	8.413	$0.28	8.69
May	2048	8.721	$	(0.252)	$	8.468	$0.28	8.75
Jun	2048	8.811	$	(0.186)	$	8.625	$0.28	8.91
Jul	2048	9.345	$	(0.125)	$	9.219	$0.30	9.52
Aug	2048	9.410	$	(0.062)	$	9.348	$0.31	9.66
Sep	2048	9.428	$	(0.200)	$	9.228	$0.30	9.53
Oct	2048	9.043	$	(0.249)	$	8.794	$0.29	9.08

Nov	2048	9.185	$	(0.244)	$ 8.941	$0.29	9.24
Dec	2048	9.448	$	(0.218)	$ 9.230	$0.30	9.53
Jan	2049	9.502	$	(0.179)	$ 9.323	$0.31	9.63
Feb	2049	9.512	$	(0.232)	$ 9.280	$0.31	9.59
Mar	2049	9.452	$	(0.231)	$ 9.221	$0.30	9.52
Apr	2049	9.346	$	(0.260)	$ 9.087	$0.30	9.39
May	2049	8.991	$	(0.252)	$ 8.739	$0.29	9.03
Jun	2049	9.041	$	(0.207)	$ 8.834	$0.29	9.12
Jul	2049	9.257	$	(0.150)	$ 9.107	$0.30	9.41
Aug	2049	9.309	$	(0.127)	$ 9.182	$0.30	9.48
Sep	2049	9.142	$	(0.195)	$ 8.948	$0.29	9.24
Oct	2049	8.977	$	(0.245)	$ 8.732	$0.29	9.02
Nov	2049	9.324	$	(0.240)	$ 9.084	$0.30	9.38
Dec	2049	9.702	$	(0.215)	$ 9.487	$0.31	9.80
Jan	2050	9.755	$	(0.175)	$ 9.581	$0.32	9.90
Feb	2050	9.783	$	(0.230)	$ 9.553	$0.31	9.87
Mar	2050	9.486	$	(0.230)	$ 9.257	$0.30	9.56
Apr	2050	9.015	$	(0.259)	$ 8.756	$0.29	9.04
May	2050	9.058	$	(0.251)	$ 8.807	$0.29	9.10
Jun	2050	9.108	$	(0.199)	$ 8.908	$0.29	9.20
Jul	2050	9.393	$	(0.148)	$ 9.245	$0.30	9.55
Aug	2050	9.450	$	(0.120)	$ 9.330	$0.31	9.64
Sep	2050	9.423	$	(0.194)	$ 9.229	$0.30	9.53
Oct	2050	9.119	$	(0.226)	$ 8.893	$0.29	9.19
Nov	2050	9.368	$	(0.239)	$ 9.129	$0.30	9.43
Dec	2050	9.683	$	(0.214)	$ 9.469	$0.31	9.78

Assumptions

Commodity (see NYMEX & Fundy tab)

1) 2019 - 2024 based on NYMEX gas from 9/6/19 settlement prices.
2) 2024 - 2028 transition from NYMEX to Fundamentals
3) 2029 - 2050 based on Natural Gas Basis Differential and Prices from the Fundamentals Department 9/17/19

Assumptions:

PEF Transportation Fixed Costs

Cypress Expansion Project (Southern Natural Gas ("SNG") and Florida Gas Transmission ("FGT" Phase VII Expansion)

1) Primary source of Natural Gas Supply is the SNG LNG Elba Island LNG Terminal located near Savannah, GA

SNG Cypress Expansion

1) Primary Receipt Pt: Elba Island, GA Primary Delivery Pt: FGT on the Jacksonville, FL Lateral (Delivers into PEF's FGT Phase VII FTS-2 Capacity)
2) Secondary / Alternate Receipt Pts: Any point on SNG system Secondary / Alternate Delivery Pts: Any point on SNG system
3) Expected in service no sooner than May 1, 2007
4) Eff: May 1, 2007, FT Capacity = 60,453 Dts/day May - Sep
5) Eff: October 1, 2007, FT Capacity = 25,189 Dts/day (Oct - Apr)
6) Eff: May 1, 2008, FT Capacity = 80,605 Dts/day (May-Sep)
7) Eff: October 1, 2008, FT Capacity = 40,302 Dts/day (Oct - Apr)
8) Eff: May 1, 2009, FT Capacity = 100,756 Dts/day (May-Sep)
9) Eff: October 1, 2009, FT Capacity = 50,378 Dts/day (Oct - Apr)
10) Fixed Daily Demand Rate = $.3547/dt Year Round (Negotiated Rate)

FGT Phase VII Expansion

1) Primary Receipt Pt: SNG Cypress on Jacksonville, FL Primary Delivery Pts: FGT @ PEF Hines Complex, FGT @ Mirant Shady Hills and FGT @ PEF Anclote
2) Secondary / Alternate Receipt rights to any point on FGT Secondary / Alternate Delivery rights to any PEF Delivery Point on FGT
3) Expected in service no sooner than May 1, 2007
4) Eff: May 1, 2007, FT Capacity = 60,00 Dts/day (May - Sep)
5) Eff: October 1, 2007, FT Capacity = 25,000 Dts/day (Oct - Apr)
6) Eff: May 1, 2008, FT Capacity = 80,000 Dts/day (May - Sep)
7) Eff: October 1, 2008, FT Capacity = 40,000 Dts/day (Oct - Apr)
8) Eff: May 1, 2009, FT Capacity = 100,000 Dts/day (May-Sep)
9) Eff: October 1, 2009, FT Capacity = 50,000 Dts/day (Oct - Apr)
10) Fixed Daily Demand Rate = $.100/dt Discounted FTS-2 Rate (Oct - Apr)
11) Fixed Daily Demand Rate = $0.7185/dt (FTS-2 Rate with Rate Cap) (May - Sep)

Gulfstream FT-6 Transportation

FT-6 Transportation

1) Primary Receipt Pts: Mobile Bay Area Points Primary Delivery Pts: GNGS @ PEF Hines Complex, GNGS @ Intercession City and GNGS @ PEF Tiger Bay
2) All Fixed Cost Daily Demand Rates = $.55/dt (Negotiated Rates)
3) 1 FT-6 Contract No. 9000105R1 capacity sculpted = 72,000 Dts/day (Nov - Mar) and 90,000 Dts/day (Apr - Oct)
4) 2 FT-6 Contracts Year Round Capacity (not sculpted)
   a) Contract No. 9000665 = 30,000 Dts/day
   b) Contract No. 9000666 = 50,000 Dts/day
5) 1 FT-6 Contract No. 9162020 Osprey PPA / AMA 68,000 Dts/day From: 10/01/2014 To: 12/31/2016

Bartow GNGS Phase IV

1) 80,000 Dts/day (Sep-Dec 2008) and 155,000 Dts/day (2009 and forward)
2) All Fixed Cost Daily Demand Rates = $.59/dt
3) Contract No. 9035943

Hines GNGS Phase V

1) 35,000 Dts/day (Apr 2011 and beyond)
2) All Fixed Cost Daily Demand Rates = $.80/dt

Bartow GNGS

1) MDTQ = 5,000 Dts/Day thru 12/31/2012, and 7,000 Dts/Day Eff. 01/01/2013
2) Fixed Cost = $0.7041/dt (Negotiated Daily Demand Rate)
3) Contract No. 9120402 R3

Bartow GNGS (see K# 9120402 R3)

1) 2,000 Dts/Day (August 1, 2012 for 1-Yr w/ Yr to Yr Evergreen)
2) Fixed Cost = $0.7041/dt (Negotiated Daily Demand Rate)
3) Contract No. 9126223 Terminated on December 31, 2012 and combined with 9120402R3
4) See Contract No. 9120402R3 above effective January 1, 2013.

Citrus Contract on FGT (Administered by Dominion Energy)

1) Bundled Service via FGT
2) Primary Delivery Pt: FGT @ PEF Hines Complex
3) Daily Demand Rates = FGT FTS-2 Max Rate $0.7185
4) Bundled Delivery Service (includes supply)
5) Contract MDQ = 12,000 Dts/day (Nov - Apr)
6) Contract MDQ = 21,000 Dts/day (May - Oct)
7) Contract Expires November 1, 2013
8) Citrus FTS-1 & FTS-2 Contracts were permanently released to DEF effective: November 1, 2013 (see below under FGT Existing FTS-1 and FTS-2 Contracts)
9) See Notes under "FGT Existing FTS-1 and FTS-2 Contracts" (below - Notes 7 & 8)

FGT Existing FTS-1 and FTS-2 Contracts (excludes FGT Phase VII see above)

1) FTS-1 Capacity at a Daily Demand Rate Max FTS-1 Rate = $0.4694/Dt Effective 04/01/2010 (Rate Settlement in Docket No. RP10-21)
2) FTS-2 Capacity at a Daily Demand Rate Max FTS-2 Rate = $0.7185/Dt Effective 10/01/2010 (Rate Settlement in Docket No. RP10-21)
   a) Subject to Rate Cap (includes base usage rate in cap calculation) including reservation/demand rate surcharges at Daily Demand Rate = $.80/dt
3) Rates stated above (1&2) were settled in FGT Rate Case FERC Docket No. RP10-21, 09/03/2010 Eff. 10/01/2010 Pending FERC approval
4) FGT has a mandatory comeback requirement to file an NGA Section 4 Rate Case with FERC
   a) File with FERC no earlier than January 1, 2013
   b) File with FERC no later than November 1, 2014
5) FTS-1 Capacity at a Daily Demand Rate Max FTS-1 Rate = $0.4694/Dt (No Rate Cap)
   a) Contract No. 5815
6) FTS-2 Capacity at a Daily Demand Rate Max FTS-2 Rate = $0.7185/Dt (Subject to Rate Cap)
   a) Contract No. 5816
   b) Contract No. 5295 (Tiger Bay)
   c) Contract No. 5935 (FGT Phase IV)
      i) Primary Delivery Pts: PEF@ Hines, PEF @ Anclote, & PEF @ Intercession City (via Cane Island Lateral)
      ii) Secondary / Alternate Delivery Pts: All PEF Plants on FGT
7) Citrus / Dominion (VPEM) Permanent Capacity Release FGT FTS-1 Contact Nos. 114929, 114930, 114931 & 114934
   a) Effective: November 1, 2013
   b) Primary Delivery Point: Hines Energy Complex
   c) Annual Average Aggregate MDTQ = 6,932 Dts/day
   d) Max FTS-1 Recourse Rate = $.4694/Dt
   e) Combined w/ Note 8c below MDTQ = 12,000 Dts/day (Nov-Apr) and 21,000 Dts/day (May-Sep)
   f) 10 Year Rollover Option
8) Citrus / Dominion (VPEM) Permanent Capacity Release FGT FTS-2 Contact Nos. 114932 & 114933
   a) Effective: November 1, 2013
   b) Primary Delivery Point: Hines Energy Complex
   c) Annual Average Aggregate MDTQ = 9,568 Dts/day
   d) Max FTS-2 Recourse Rate = $.7185/Dt (Subject to Settlement Rate Cap)
   e) Combined w/ Note 7c above MDTQ = 12,000 Dts/day (Nov-Apr) and 21,000 Dts/day (May-Sep)
   f) ROFR rights

SGR Storage & Bay Gas

1) SGR based on 500,000 Dts/Mo (Nov-May) and 700,000 Dts/Mo (Jun-Oct) capacity
2) Bay Gas based on 500,000 Dts/Mo
3) Monthly Demand Rates = $0.22/dt thru 04/30/2013, then $0.24/dt 05/01/2013 thru 4/30/2018
4) Bay Gas negotiations completed
5) SGR contract expires 5/31/2018 (No Rollover Provision)

SESH

1) Based on 100,000 Dts/Day thru May2009, then 150,000 Dts/Day thru May2010 and then 200,000 Dts/Day
2) Monthly Demand Rates = $.275/dt

FGT Phase VIII Expansion (FTS-3) Contract # 111144

1) Eff April 2011, FTS-3 FT Capacity = 75,000 Dts/day
2) Fixed Daily Demand Rate = $1.30/dt

FGT (FTS-3) Contract # 113000

1) Eff April 2013, FTS-3 FT Capacity = 30,000 Dts/day
2) Fixed Daily Demand Rate = $1.25/dt

Transco Mobile Bay South Expansions Contract Nos. 9097513 (Ph I), 9109950 (Ph II) and 9111070 (BP Ph II)

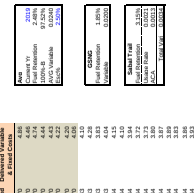
1) Phase I - Based on 153,500 Dts/Day from May 2010
2) Monthly Demand Rates = $0.09958/dt (Eff: 03/01/2013) Settlement Rates Certified by FERC Presiding ALJ on 09/30/2013 & Subject to Final FERC Approval
3) Phase II - additional 50,000 Dts/Day effective May 1, 2011, at the same rate
4) Capacity Release From BP - additional 53,500 DTs/day eff. 6/1/16, at the same rate

Cost Allocation

1) Consumption percentage based on October 2013 FOF & Fall 2012 GFF

PGS Lateral for Vandolah

1) Vandolah only of $41,750/month beginning June 2012, expires May 31, 2027

















DEP NATURAL GAS DISPATCH PRICES

HENRY HUB DATA

year	Date	Henry Hub	NYMEX	Blend NYMEX/ Fundamental (%)	Blend NYMEX/ Fundamental ($)
2019	1/1/2019	$3.07	$3.11	100%	3.11
2019	2/1/2019	$2.68	$2.69	100%	2.69
2019	3/1/2019	$2.90	$2.95	100%	2.95
2019	4/1/2019	$2.59	$2.65	100%	2.65
2019	5/1/2019	$2.59	$2.64	100%	2.64
2019	6/1/2019	$2.57	$2.40	100%	2.40
2019	7/1/2019	$2.64	$2.37	100%	2.37
2019	8/1/2019	$2.66	$2.22	100%	2.22
2019	9/1/2019	$2.11	$2.56	100%	2.56
2019	10/1/2019	$2.04	$2.74	100%	2.74
2019	11/1/2019	$2.05	$2.30	100%	2.30
2019	12/1/2019	$2.15	$2.50	100%	2.50
2020	1/1/2020	$1.96	$2.61	100%	2.61
2020	2/1/2020	$1.97	$2.58	100%	2.58
2020	3/1/2020	$1.89	$2.46	100%	2.46
2020	4/1/2020	$1.73	$2.25	100%	2.25
2020	5/1/2020	$1.54	$2.23	100%	2.23
2020	6/1/2020	$1.56	$2.28	100%	2.28
2020	7/1/2020	$1.65	$2.33	100%	2.33
2020	8/1/2020	$1.63	$2.34	100%	2.34
2020	9/1/2020	$1.97	$2.32	100%	2.32
2020	10/1/2020	$1.99	$2.34	100%	2.34
2020	11/1/2020	$1.99	$2.41	100%	2.41
2020	12/1/2020	$2.04	$2.58	100%	2.58
2021	1/1/2021	$2.04	$2.70	100%	2.70
2021	2/1/2021	$2.08	$2.66	100%	2.66
2021	3/1/2021	$2.05	$2.55	100%	2.55
2021	4/1/2021	$1.95	$2.28	100%	2.28
2021	5/1/2021	$1.99	$2.26	100%	2.26
2021	6/1/2021	$2.02	$2.29	100%	2.29
2021	7/1/2021	$2.04	$2.33	100%	2.33
2021	8/1/2021	$2.07	$2.34	100%	2.34
2021	9/1/2021	$2.11	$2.33	100%	2.33
2021	10/1/2021	$2.11	$2.35	100%	2.35
2021	11/1/2021	$2.16	$2.42	100%	2.42
2021	12/1/2021	$2.26	$2.60	100%	2.60
2022	1/1/2022	$2.23	$2.73	100%	2.73
2022	2/1/2022	$2.24	$2.70	100%	2.70
2022	3/1/2022	$2.25	$2.60	100%	2.60
2022	4/1/2022	$2.27	$2.34	100%	2.34
2022	5/1/2022	$2.26	$2.32	100%	2.32
2022	6/1/2022	$2.30	$2.36	100%	2.36
2022	7/1/2022	$2.36	$2.40	100%	2.40
2022	8/1/2022	$2.39	$2.41	100%	2.41
2022	9/1/2022	$2.38	$2.40	100%	2.40
2022	10/1/2022	$2.36	$2.43	100%	2.43
2022	11/1/2022	$2.45	$2.49	100%	2.49
2022	12/1/2022	$2.53	$2.67	100%	2.67
2023	1/1/2023	$2.51	$2.80	100%	2.80
2023	2/1/2023	$2.52	$2.77	100%	2.77
2023	3/1/2023	$2.47	$2.66	100%	2.66
2023	4/1/2023	$2.44	$2.40	100%	2.40
2023	5/1/2023	$2.45	$2.39	100%	2.39
2023	6/1/2023	$2.48	$2.43	100%	2.43
2023	7/1/2023	$2.51	$2.47	100%	2.47
2023	8/1/2023	$2.56	$2.48	100%	2.48
2023	9/1/2023	$2.56	$2.48	100%	2.48
2023	10/1/2023	$2.54	$2.51	100%	2.51
2023	11/1/2023	$2.69	$2.58	100%	2.58
2023	12/1/2023	$2.74	$2.76	100%	2.76
2024	1/1/2024	$2.74	$2.89	98%	2.88
2024	2/1/2024	$2.76	$2.86	97%	2.85
2024	3/1/2024	$2.75	$2.74	95%	2.74
2024	4/1/2024	$2.73	$2.50	93%	2.51
2024	5/1/2024	$2.75	$2.48	92%	2.50
2024	6/1/2024	$2.80	$2.51	90%	2.54
2024	7/1/2024	$2.85	$2.54	88%	2.58
2024	8/1/2024	$2.92	$2.54	87%	2.59
2024	9/1/2024	$2.85	$2.54	85%	2.59
2024	10/1/2024	$2.87	$2.56	83%	2.61
2024	11/1/2024	$2.99	$2.62	82%	2.69
2024	12/1/2024	$3.10	$2.89	80%	2.86
2025	1/1/2025	$3.09	$2.93	78%	2.96
2025	2/1/2025	$3.11	$2.90	77%	2.95
2025	3/1/2025	$3.05	$2.80	75%	2.86
2025	4/1/2025	$3.01	$2.57	73%	2.69
2025	5/1/2025	$3.02	$2.56	72%	2.69
2025	6/1/2025	$3.05	$2.59	70%	2.73
2025	7/1/2025	$3.23	$2.62	68%	2.81
2025	8/1/2025	$3.23	$2.63	67%	2.83
2025	9/1/2025	$2.96	$2.62	65%	2.74
2025	10/1/2025	$2.94	$2.65	63%	2.75
2025	11/1/2025	$3.02	$2.71	62%	2.83
2025	12/1/2025	$3.16	$2.87	60%	2.99
2026	1/1/2026	$3.21	$2.99	58%	3.08
2026	2/1/2026	$3.23	$2.96	57%	3.08
2026	3/1/2026	$3.15	$2.86	55%	2.99
2026	4/1/2026	$3.10	$2.64	53%	2.86
2026	5/1/2026	$3.12	$2.63	52%	2.87
2026	6/1/2026	$3.16	$2.66	50%	2.91
2026	7/1/2026	$3.32	$2.79	48%	3.05
2026	8/1/2026	$3.45	$2.71	47%	3.09
2026	9/1/2026	$3.26	$2.71	45%	3.02
2026	10/1/2026	$3.23	$2.73	43%	3.01
2026	11/1/2026	$3.26	$2.79	42%	3.08
2026	12/1/2026	$3.43	$2.97	40%	3.24
2027	1/1/2027	$3.46	$3.09	38%	3.32
2027	2/1/2027	$3.46	$3.07	37%	3.33
2027	3/1/2027	$3.43	$2.99	35%	3.28
2027	4/1/2027	$3.31	$2.76	33%	3.13
2027	5/1/2027	$3.33	$2.75	32%	3.15
2027	6/1/2027	$3.36	$2.78	30%	3.21
2027	7/1/2027	$3.65	$2.81	28%	3.41
2027	8/1/2027	$3.67	$2.83	27%	3.45
2027	9/1/2027	$3.64	$2.83	25%	3.43
2027	10/1/2027	$3.47	$2.86	23%	3.33
2027	11/1/2027	$3.52	$2.92	22%	3.39
2027	12/1/2027	$3.69	$3.08	20%	3.57
2028	1/1/2028	$3.64	$3.20	18%	3.56
2028	2/1/2028	$3.66	$3.16	17%	3.58
2028	3/1/2028	$3.57	$3.10	15%	3.50
2028	4/1/2028	$3.55	$2.84	13%	3.45
2028	5/1/2028	$3.57	$2.82	12%	3.48
2028	6/1/2028	$3.73	$2.85	10%	3.64
2028	7/1/2028	$3.73	$2.89	8%	3.66
2028	8/1/2028	$3.75	$2.93	7%	3.70
2028	9/1/2028	$3.76	$2.94	5%	3.75
2028	10/1/2028	$3.75	$2.98	3%	3.73
2028	11/1/2028	$3.76	$3.05	2%	3.78
2028	12/1/2028	$4.01	$3.20	0%	4.01
2029	1/1/2029	$4.03	$3.33	0%	4.03
2029	2/1/2029	$4.05	$3.29	0%	4.05
2029	3/1/2029	$3.87	$3.23	0%	3.87
2029	4/1/2029	$3.86	$2.93	0%	3.88
2029	5/1/2029	$3.93	$2.91	0%	3.93
2029	6/1/2029	$4.04	$2.94	0%	4.04
2029	7/1/2029	$3.81	$2.98	0%	3.81
2029	8/1/2029	$3.83	$3.02	0%	3.83
2029	9/1/2029	$3.94	$3.04	0%	3.94
2029	10/1/2029	$3.93	$3.08	0%	3.93
2029	11/1/2029	$3.84	$3.16	0%	3.84
2029	12/1/2029	$4.02	$3.31	0%	4.02
2030	1/1/2030	$4.00	$3.44	0%	4.00
2030	2/1/2030	$4.02	$3.41	0%	4.03
2030	3/1/2030	$3.93	$3.34	0%	3.93
2030	4/1/2030	$3.91	$3.04	0%	3.91
2030	5/1/2030	$3.93	$3.01	0%	3.93
2030	6/1/2030	$3.99	$3.05	0%	3.99
2030	7/1/2030	$4.28	$3.09	0%	4.28
2030	8/1/2030	$4.31	$3.13	0%	4.31
2030	9/1/2030	$4.24	$3.14	0%	4.24
2030	10/1/2030	$4.05	$3.19	0%	4.05
2030	11/1/2030	$3.98	$3.26	0%	3.98
2030	12/1/2030	$4.17	$3.42	0%	4.17
2031	1/1/2031	$4.22	$3.55	0%	4.22
2031	2/1/2031	$4.25	$3.51	0%	4.25
2031	3/1/2031	$4.17	$3.45	0%	4.17
2031	4/1/2031	$4.13	$3.15	0%	4.13
2031	5/1/2031	$4.16	$3.12	0%	4.16
2031	6/1/2031	$4.21	$3.16	0%	4.21
2031	7/1/2031	$4.50	$3.20	0%	4.50
2031	8/1/2031	$4.54	$3.24	0%	4.54
2031	9/1/2031	$4.46	$3.25	0%	4.46
2031	10/1/2031	$4.32	$3.30	0%	4.32
2031	11/1/2031	$4.38	$3.37	0%	4.38
2031	12/1/2031	$4.53	$3.53	0%	4.53
2032	1/1/2032	$4.45	$3.68	0%	4.45
2032	2/1/2032	$4.47	$3.62	0%	4.47
2032	3/1/2032	$4.45	$3.56	0%	4.45
2032	4/1/2032	$4.32	$3.25	0%	4.32
2032	5/1/2032	$4.34	$3.22	0%	4.34
2032	6/1/2032	$4.37	$3.26	0%	4.37
2032	7/1/2032	$4.49	$3.30	0%	4.49
2032	8/1/2032	$4.53	$3.34	0%	4.53
2032	9/1/2032	$4.46	$3.36	0%	4.46
2032	10/1/2032	$4.44	$3.40	0%	4.44
2032	11/1/2032	$4.54	$3.48	0%	4.54
2032	12/1/2032	$4.55	$3.64	0%	4.55
2033	1/1/2033	$4.33	$3.82	0%	4.33
2033	2/1/2033	$4.36	$3.78	0%	4.36
2033	3/1/2033	$4.32	$3.71	0%	4.32
2033	4/1/2033	$4.32	$3.39	0%	4.32
2033	5/1/2033	$4.36	$3.36	0%	4.35
2033	6/1/2033	$4.36	$3.40	0%	4.38
2033	7/1/2033	$4.51	$3.44	0%	4.51
2033	8/1/2033	$4.55	$3.49	0%	4.55
2033	9/1/2033	$4.49	$3.50	0%	4.49
2033	10/1/2033	$4.46	$3.55	0%	4.45
2033	11/1/2033	$4.58	$3.63	0%	4.58
2033	12/1/2033	$4.74	$3.80	0%	4.74
2034	1/1/2034	$4.75	$4.06	0%	4.73
2034	2/1/2034	$4.59	$4.02	0%	4.59
2034	3/1/2034	$4.46	$3.94	0%	4.46
2034	4/1/2034	$4.40	$3.60	0%	4.40
2034	5/1/2034	$4.43	$3.57	0%	4.43
2034	6/1/2034	$4.46	$3.61	0%	4.46
2034	7/1/2034	$4.68	$3.66	0%	4.68
2034	8/1/2034	$4.71	$3.71	0%	4.71
2034	9/1/2034	$4.62	$3.72	0%	4.62
2034	10/1/2034	$4.51	$3.78	0%	4.51
2034	11/1/2034	$4.70	$3.86	0%	4.70
2034	12/1/2034	$4.87	$4.03	0%	4.87
2035	1/1/2035	$4.90	$4.35	0%	4.90
2035	2/1/2035	$4.92	$4.31	0%	4.92
2035	3/1/2035	$4.77	$4.23	0%	4.77
2035	4/1/2035	$4.56	$3.86	0%	4.56
2035	5/1/2035	$4.59	$3.83	0%	4.59
2035	6/1/2035	$4.61	$3.87	0%	4.61
2035	7/1/2035	$4.85	$3.92	0%	4.85
2035	8/1/2035	$4.88	$3.97	0%	4.88
2035	9/1/2035	$4.80	$3.99	0%	4.80
2035	10/1/2035	$4.68	$4.05	0%	4.68
2035	11/1/2035	$4.72	$4.13	0%	4.72
2035	12/1/2035	$4.85	$4.33	0%	4.85
2036	1/1/2036	$4.80	$4.70	0%	4.80
2036	2/1/2036	$4.82	$4.66	0%	4.82
2036	3/1/2036	$4.74	$4.57	0%	4.74
2036	4/1/2036	$4.55	$4.17	0%	4.55
2036	5/1/2036	$4.58	$4.14	0%	4.58
2036	6/1/2036	$4.61	$4.19	0%	4.61
2036	7/1/2036	$4.75	$4.24	0%	4.75
2036	8/1/2036	$4.78	$4.29	0%	4.78
2036	9/1/2036	$4.76	$4.31	0%	4.76
2036	10/1/2036	$4.73	$4.37	0%	4.73
2036	11/1/2036	$4.79	$4.47	0%	4.79
2036	12/1/2036	$5.01	$4.67	0%	5.01
2037	1/1/2037	$5.03	$5.06	0%	5.03
2037	2/1/2037	$5.06	$5.01	0%	5.06
2037	3/1/2037	$4.99	$4.91	0%	4.99
2037	4/1/2037	$4.84	$4.48	0%	4.84
2037	5/1/2037	$4.87	$4.45	0%	4.87
2037	6/1/2037	$4.92	$4.50	0%	4.92
2037	7/1/2037	$5.13	$4.56	0%	5.13
2037	8/1/2037	$5.17	$4.61	0%	5.17
2037	9/1/2037	$5.09	$4.64	0%	5.09
2037	10/1/2037	$5.04	$4.70	0%	5.04
2037	11/1/2037	$5.10	$4.80	0%	5.10
2037	12/1/2037	$5.32	$5.03	0%	5.32
2038	1/1/2038	$5.34	$5.40	0%	5.34
2038	2/1/2038	$5.37	$5.34	0%	5.37
2038	3/1/2038	$5.29	$5.24	0%	5.29
2038	4/1/2038	$5.11	$4.78	0%	5.11
2038	5/1/2038	$5.14	$4.75	0%	5.14
2038	6/1/2038	$5.18	$4.80	0%	5.18
2038	7/1/2038	$5.32	$4.86	0%	5.32
2038	8/1/2038	$5.36	$4.93	0%	5.36
2038	9/1/2038	$5.24	$4.95	0%	5.24
2038	10/1/2038	$5.19	$5.02	0%	5.19
2038	11/1/2038	$5.27	$5.13	0%	5.27
2038	12/1/2038	$5.46	$5.36	0%	5.46
2039	1/1/2039	$5.48	$5.76	0%	5.48
2039	2/1/2039	$5.51	$5.70	0%	5.51
2039	3/1/2039	$5.38	$5.60	0%	5.38
2039	4/1/2039	$5.04	$5.11	0%	5.04
2039	5/1/2039	$5.06	$5.07	0%	5.06
2039	6/1/2039	$5.10	$5.13	0%	5.10
2039	7/1/2039	$5.15	$5.19	0%	5.15
2039	8/1/2039	$5.59	$5.28	0%	5.59
2039	9/1/2039	$5.57	$5.28	0%	5.57
2039	10/1/2039	$5.36	$5.36	0%	5.36
2039	11/1/2039	$5.42	$5.47	0%	5.42
2039	12/1/2039	$5.59	$5.72	0%	5.59
2040	1/1/2040	$5.55	$6.14	0%	5.55
2040	2/1/2040	$5.58	$6.08	0%	5.58
2040	3/1/2040	$5.49	$5.97	0%	5.49
2040	4/1/2040	$5.31	$5.45	0%	5.31
2040	5/1/2040	$5.34	$5.41	0%	5.34
2040	6/1/2040	$5.38	$5.47	0%	5.38
2040	7/1/2040	$5.58	$5.54	0%	5.58
2040	8/1/2040	$5.61	$5.61	0%	5.61
2040	9/1/2040	$5.60	$5.64	0%	5.60
2040	10/1/2040	$5.48	$5.72	0%	5.48
2040	11/1/2040	$5.54	$5.84	0%	5.54
2040	12/1/2040	$5.72	$6.11	0%	5.72
2041	1/1/2041	$5.77	$6.58	0%	5.77
2041	2/1/2041	$5.79	$6.49	0%	5.79
2041	3/1/2041	$5.67	$6.37	0%	5.67
2041	4/1/2041	$5.46	$5.81	0%	5.46
2041	5/1/2041	$5.49	$5.77	0%	5.49
2041	6/1/2041	$5.55	$5.84	0%	5.55
2041	7/1/2041	$5.79	$5.91	0%	5.79
2041	8/1/2041	$5.83	$5.99	0%	5.83
2041	9/1/2041	$5.83	$6.01	0%	5.83
2041	10/1/2041	$5.64	$6.10	0%	5.64
2041	11/1/2041	$5.74	$6.23	0%	5.74
2041	12/1/2041	$5.91	$6.52	0%	5.91
2042	1/1/2042	$5.89	$7.00	0%	5.89
2042	2/1/2042	$5.91	$6.93	0%	5.91
2042	3/1/2042	$5.79	$6.80	0%	5.79
2042	4/1/2042	$5.63	$6.21	0%	5.63
2042	5/1/2042	$5.66	$6.16	0%	5.66
2042	6/1/2042	$5.72	$6.23	0%	5.72
2042	7/1/2042	$6.01	$6.31	0%	6.01
2042	8/1/2042	$6.05	$6.39	0%	6.05
2042	9/1/2042	$6.03	$6.42	0%	6.03
2042	10/1/2042	$5.82	$6.51	0%	5.82
2042	11/1/2042	$5.85	$6.65	0%	5.85
2042	12/1/2042	$6.04	$6.96	0%	6.04
2043	1/1/2043	$6.01	$7.47	0%	6.01
2043	2/1/2043	$6.03	$7.40	0%	6.03
2043	3/1/2043	$5.91	$7.26	0%	5.91
2043	4/1/2043	$5.70	$6.62	0%	5.70
2043	5/1/2043	$5.74	$6.58	0%	5.74
2043	6/1/2043	$5.78	$6.65	0%	5.78
2043	7/1/2043	$6.06	$6.73	0%	6.06
2043	8/1/2043	$6.10	$6.82	0%	6.10
2043	9/1/2043	$6.12	$6.85	0%	6.12
2043	10/1/2043	$5.89	$6.95	0%	5.89
2043	11/1/2043	$5.94	$7.10	0%	5.94
2043	12/1/2043	$6.14	$7.42	0%	6.14
2044	1/1/2044	$6.15	$7.97	0%	6.15
2044	2/1/2044	$6.18	$7.89	0%	6.18
2044	3/1/2044	$6.05	$7.75	0%	6.05
2044	4/1/2044	$5.94	$7.07	0%	5.94
2044	5/1/2044	$5.97	$7.02	0%	5.97
2044	6/1/2044	$6.01	$7.10	0%	6.01
2044	7/1/2044	$6.29	$7.19	0%	6.29
2044	8/1/2044	$6.32	$7.28	0%	6.32
2044	9/1/2044	$6.31	$7.31	0%	6.31
2044	10/1/2044	$6.15	$7.41	0%	6.15
2044	11/1/2044	$6.25	$7.58	0%	6.25
2044	12/1/2044	$6.44	$7.92	0%	6.44
2045	1/1/2045	$6.42	$8.51	0%	6.42
2045	2/1/2045	$6.46	$8.42	0%	6.46
2045	3/1/2045	$6.36	$8.27	0%	6.36
2045	4/1/2045	$6.21	$7.54	0%	6.21
2045	5/1/2045	$6.24	$7.49	0%	6.24
2045	6/1/2045	$6.28	$7.57	0%	6.28
2045	7/1/2045	$6.57	$7.67	0%	6.57
2045	8/1/2045	$6.61	$7.77	0%	6.61
2045	9/1/2045	$6.63	$7.80	0%	6.63
2045	10/1/2045	$6.43	$7.91	0%	6.43
2045	11/1/2045	$6.53	$8.08	0%	6.53
2045	12/1/2045	$6.73	$8.46	0%	6.73
2046	1/1/2046	$6.74	$9.08	0%	6.74
2046	2/1/2046	$6.76	$8.99	0%	6.76
2046	3/1/2046	$6.60	$8.82	0%	6.60
2046	4/1/2046	$6.42	$8.05	0%	6.42
2046	5/1/2046	$6.45	$7.99	0%	6.45
2046	6/1/2046	$6.48	$8.08	0%	6.48
2046	7/1/2046	$6.81	$8.19	0%	6.81
2046	8/1/2046	$6.86	$8.29	0%	6.86
2046	9/1/2046	$6.84	$8.33	0%	6.84
2046	10/1/2046	$6.62	$8.44	0%	6.62
2046	11/1/2046	$6.68	$8.63	0%	6.68
2046	12/1/2046	$6.86	$9.03	0%	6.86
2047	1/1/2047	$6.87	$9.69	0%	6.87
2047	2/1/2047	$6.88	$9.59	0%	6.88
2047	3/1/2047	$6.64	$9.42	0%	6.64
2047	4/1/2047	$6.49	$8.59	0%	6.49
2047	5/1/2047	$6.51	$8.19	0%	6.51
2047	6/1/2047	$6.55	$8.29	0%	6.55
2047	7/1/2047	$6.87	$8.39	0%	6.87
2047	8/1/2047	$6.91	$8.50	0%	6.91
2047	9/1/2047	$6.91	$8.53	0%	6.91
2047	10/1/2047	$6.70	$8.66	0%	6.79
2047	11/1/2047	$6.85	$8.84	0%	6.85
2047	12/1/2047	$6.87	$9.25	0%	6.87
2048	1/1/2048	$6.80	$9.93	0%	6.80
2048	2/1/2048	$6.84	$9.83	0%	6.84
2048	3/1/2048	$6.68	$9.65	0%	6.68
2048	4/1/2048	$6.59	$8.81	0%	6.59
2048	5/1/2048	$6.62	$8.40	0%	6.62
2048	6/1/2048	$6.69	$8.49	0%	6.69
2048	7/1/2048	$7.10	$8.60	0%	7.10
2048	8/1/2048	$7.15	$8.71	0%	7.15
2048	9/1/2048	$7.16	$8.75	0%	7.16
2048	10/1/2048	$6.87	$8.87	0%	6.87
2048	11/1/2048	$6.97	$9.07	0%	6.97
2048	12/1/2048	$7.17	$9.48	0%	7.17
2049	1/1/2049	$7.10	$10.18	0%	7.10
2049	2/1/2049	$7.10	$10.08	0%	7.10
2049	3/1/2049	$7.06	$9.89	0%	7.06
2049	4/1/2049	$6.98	$9.03	0%	6.98
2049	5/1/2049	$6.71	$8.61	0%	6.71
2049	6/1/2049	$6.75	$8.70	0%	6.75
2049	7/1/2049	$6.91	$8.82	0%	6.91
2049	8/1/2049	$6.95	$8.93	0%	6.95
2049	9/1/2049	$6.83	$8.97	0%	6.83
2049	10/1/2049	$6.70	$9.09	0%	6.70
2049	11/1/2049	$6.96	$9.29	0%	6.96
2049	12/1/2049	$7.24	$9.72	0%	7.24
2050	1/1/2050	$7.26	$10.43	0%	7.26
2050	2/1/2050	$7.28	$10.33	0%	7.28
2050	3/1/2050	$7.06	$10.14	0%	7.06
2050	4/1/2050	$6.71	$9.25	0%	6.71
2050	5/1/2050	$6.74	$8.82	0%	6.74
2050	6/1/2050	$6.78	$8.92	0%	6.78
2050	7/1/2050	$6.99	$9.04	0%	6.99
2050	8/1/2050	$7.03	$9.15	0%	7.03
2050	9/1/2050	$7.01	$9.19	0%	7.01
2050	10/1/2050	$6.79	$9.32	0%	6.79
2050	11/1/2050	$6.97	$9.52	0%	6.97
2050	12/1/2050	$7.21	$9.99	0%	7.21

Low Commodity Fundamentals

Historical Henry Hub
NYMEX - Close 4/15/19
NYMEX - Close 10/16/19
Grow at inflation of same month previous year
Low Commodity Fundamentals

US Gas Prices Nominal $

	Henry Hub	Transco Z4	IGT 23 Gas Prices	Transco Z4	IGT 23 Basis Differentials
Jan-19	3.07	$3.02	3.03	($0.06)	($0.046)
Feb-19	2.65	$2.62	2.63	($0.03)	($0.019)
Mar-19	2.68	$2.55	2.60	($0.05)	($0.003)
Apr-19	2.55	$2.47	2.50	($0.03)	($0.001)
May-19	2.59	$2.59	2.60	($0.00)	$0.005
Jun-19	2.57	$2.57	2.60	$0.00	$0.037
Jul-19	2.64	$2.65	2.69	$0.01	$0.048
Aug-19	2.66	$2.68	2.72	$0.01	$0.056
Sep-19	2.11	$2.11	2.13	$0.00	$0.016
Oct-19	2.04	$2.01	2.04	($0.03)	$0.010
Nov-19	2.09	$2.07	2.10	($0.02)	$0.012
Dec-19	2.15	$2.15	2.18	($0.01)	$0.023
Jan-20	2.06	$2.05	2.09	($0.01)	$0.035
Feb-20	2.05	$2.04	2.09	($0.02)	$0.024
Mar-20	1.97	$1.95	1.96	($0.02)	($0.020)
Apr-20	1.81	$1.76	1.79	($0.05)	($0.019)
May-20	1.61	$1.56	1.62	($0.05)	$0.005
Jun-20	1.57	$1.53	1.60	($0.04)	$0.026
Jul-20	1.72	$1.70	1.77	($0.03)	$0.048
Aug-20	1.91	$1.91	1.97	($0.01)	$0.055
Sep-20	2.06	$2.02	2.08	($0.04)	$0.012
Oct-20	2.09	$2.02	2.10	($0.06)	$0.016
Nov-20	2.08	$2.05	2.10	($0.03)	$0.025
Dec-20	2.14	$2.12	2.17	($0.02)	$0.024
Jan-21	2.26	$2.19	2.24	($0.01)	$0.038
Feb-21	2.24	$2.22	2.28	($0.03)	$0.033
Mar-21	2.16	$2.14	2.14	($0.03)	($0.015)
Apr-21	2.11	$2.03	2.08	($0.07)	($0.021)
May-21	2.15	$2.08	2.15	($0.07)	$0.005
Jun-21	2.18	$2.13	2.21	($0.05)	$0.025
Jul-21	2.23	$2.17	2.25	($0.04)	$0.047
Aug-21	2.24	$2.22	2.30	($0.02)	$0.058
Sep-21	2.27	$2.22	2.29	($0.05)	$0.011
Oct-21	2.27	$2.21	2.29	($0.06)	$0.018
Nov-21	2.33	$2.30	2.36	($0.04)	$0.027
Dec-21	2.44	$2.42	2.48	($0.02)	$0.038
Jan-22	2.46	$2.44	2.50	($0.02)	$0.041
Feb-22	2.47	$2.44	2.51	($0.03)	$0.036
Mar-22	2.48	$2.45	2.46	($0.03)	($0.013)
Apr-22	2.50	$2.43	2.49	($0.07)	($0.014)
May-22	2.52	$2.45	2.52	($0.07)	$0.007
Jun-22	2.54	$2.50	2.58	($0.04)	$0.034
Jul-22	2.61	$2.58	2.67	($0.02)	$0.059
Aug-22	2.63	$2.62	2.70	($0.02)	$0.066
Sep-22	2.63	$2.58	2.65	($0.05)	$0.021
Oct-22	2.62	$2.56	2.65	($0.06)	$0.024
Nov-22	2.70	$2.67	2.74	($0.03)	$0.034
Dec-22	2.79	$2.78	2.84	($0.01)	$0.044
Jan-23	2.81	$2.79	2.86	($0.02)	$0.052
Feb-23	2.83	$2.79	2.87	($0.03)	$0.047
Mar-23	2.77	$2.74	2.77	($0.03)	($0.003)
Apr-23	2.73	$2.66	2.72	($0.07)	($0.008)
May-23	2.75	$2.68	2.76	($0.06)	$0.016
Jun-23	2.78	$2.73	2.82	($0.05)	$0.042
Jul-23	2.87	$2.83	2.94	($0.04)	$0.068
Aug-23	2.89	$2.87	2.97	($0.03)	$0.076
Sep-23	2.87	$2.82	2.90	($0.05)	$0.029
Oct-23	2.85	$2.79	2.88	($0.06)	$0.030
Nov-23	3.01	$2.97	3.05	($0.05)	$0.037
Dec-23	3.07	$3.05	3.12	($0.02)	$0.053
Jan-24	3.10	$3.07	3.15	($0.03)	$0.058
Feb-24	3.12	$3.07	3.17	($0.04)	$0.050
Mar-24	3.10	$3.06	3.10	($0.05)	($0.002)
Apr-24	3.08	$3.00	3.08	($0.09)	($0.007)
May-24	3.16	$3.02	3.12	($0.08)	$0.017
Jun-24	3.18	$3.10	3.21	($0.08)	$0.046
Jul-24	3.27	$3.22	3.34	($0.04)	$0.077
Aug-24	3.30	$3.27	3.37	($0.03)	$0.077
Sep-24	3.26	$3.20	3.31	($0.06)	$0.047
Oct-24	3.24	$3.18	3.28	($0.06)	$0.040
Nov-24	3.37	$3.33	3.42	($0.05)	$0.044
Dec-24	3.60	$3.46	3.56	($0.14)	$0.056
Jan-25	3.52	$3.49	3.58	($0.03)	$0.061
Feb-25	3.54	$3.50	3.60	($0.04)	$0.055
Mar-25	3.48	$3.43	3.47	($0.05)	($0.001)
Apr-25	3.42	$3.33	3.41	($0.10)	($0.011)
May-25	3.44	$3.35	3.46	($0.09)	$0.016
Jun-25	3.47	$3.41	3.52	($0.06)	$0.054
Jul-25	3.65	$3.61	3.73	($0.04)	$0.078
Aug-25	3.68	$3.66	3.76	($0.03)	$0.078
Sep-25	3.37	$3.31	3.41	($0.06)	$0.045
Oct-25	3.35	$3.27	3.38	($0.08)	$0.035
Nov-25	3.44	$3.38	3.48	($0.07)	$0.036
Dec-25	3.60	$3.55	3.65	($0.05)	$0.051
Jan-26	3.62	$3.58	3.68	($0.05)	$0.057
Feb-26	3.64	$3.59	3.70	($0.05)	$0.053
Mar-26	3.58	$3.50	3.55	($0.08)	($0.003)
Apr-26	3.50	$3.41	3.50	($0.09)	($0.001)
May-26	3.52	$3.43	3.54	($0.09)	$0.022
Jun-26	3.57	$3.51	3.62	($0.06)	$0.053
Jul-26	3.82	$3.78	3.90	($0.04)	$0.077
Aug-26	3.85	$3.81	3.93	($0.04)	$0.078
Sep-26	3.76	$3.64	3.74	($0.08)	$0.041
Oct-26	3.64	$3.55	3.68	($0.09)	$0.034
Nov-26	3.70	$3.64	3.74	($0.06)	$0.042
Dec-26	3.87	$3.82	3.92	($0.05)	$0.054
Jan-27	3.89	$3.85	3.95	($0.04)	$0.062
Feb-27	3.91	$3.86	3.97	($0.05)	$0.057
Mar-27	3.85	$3.79	3.85	($0.06)	($0.002)
Apr-27	3.71	$3.62	3.71	($0.10)	($0.002)
May-27	3.74	$3.64	3.78	($0.10)	$0.021
Jun-27	3.81	$3.75	3.86	($0.06)	$0.051
Jul-27	4.10	$4.05	4.17	($0.04)	$0.079
Aug-27	4.12	$4.09	4.21	($0.03)	$0.082
Sep-27	4.08	$4.01	4.12	($0.07)	$0.043
Oct-27	3.89	$3.80	3.93	($0.09)	$0.038
Nov-27	3.96	$3.89	4.00	($0.06)	$0.043
Dec-27	4.14	$4.10	4.20	($0.04)	$0.054
Jan-28	4.17	$4.14	4.23	($0.03)	$0.063
Feb-28	4.20	$4.14	4.24	($0.06)	$0.047
Mar-28	4.10	$4.03	4.10	($0.07)	($0.002)
Apr-28	4.07	$3.96	4.06	($0.11)	($0.006)
May-28	4.16	$4.00	4.12	($0.16)	$0.024
Jun-28	4.28	$4.22	4.34	($0.06)	$0.059
Jul-28	4.27	$4.24	4.37	($0.04)	$0.091
Aug-28	4.31	$4.28	4.40	($0.03)	$0.089
Sep-28	4.35	$4.29	4.40	($0.06)	$0.048
Oct-28	4.31	$4.22	4.35	($0.09)	$0.044
Nov-28	4.35	$4.28	4.40	($0.07)	$0.046
Dec-28	4.69	$4.54	4.65	($0.05)	$0.054
Jan-29	4.64	$4.61	4.72	($0.03)	$0.075
Feb-29	4.67	$4.62	4.74	($0.05)	$0.068
Mar-29	4.45	$4.39	4.46	($0.06)	$0.007
Apr-29	4.47	$4.36	4.47	($0.11)	$0.002
May-29	4.53	$4.43	4.56	($0.10)	$0.027
Jun-29	4.66	$4.58	4.72	($0.07)	$0.062
Jul-29	4.39	$4.34	4.48	($0.05)	$0.091
Aug-29	4.42	$4.38	4.52	($0.03)	$0.098
Sep-29	4.54	$4.46	4.59	($0.07)	$0.053
Oct-29	4.52	$4.43	4.57	($0.10)	$0.040
Nov-29	4.43	$4.39	4.49	($0.04)	$0.063
Dec-29	4.63	$4.59	4.70	($0.04)	$0.062
Jan-30	4.67	$4.64	4.74	($0.03)	$0.075
Feb-30	4.69	$4.65	4.76	($0.04)	$0.069
Mar-30	4.58	$4.53	4.59	($0.05)	$0.004
Apr-30	4.55	$4.43	4.54	($0.12)	($0.008)
May-30	4.58	$4.48	4.61	($0.10)	$0.029
Jun-30	4.65	$4.61	4.72	($0.05)	$0.069
Jul-30	4.98	$4.96	5.09	($0.02)	$0.104
Aug-30	5.02	$5.02	5.13	$0.00	$0.113
Sep-30	4.98	$4.89	5.09	($0.09)	$0.056
Oct-30	4.72	$4.64	4.77	($0.08)	$0.053
Nov-30	4.64	$4.59	4.69	($0.04)	$0.056
Dec-30	4.88	$4.82	4.93	($0.04)	$0.054
Jan-31	4.89	$4.85	4.99	($0.04)	$0.098
Feb-31	4.92	$4.87	5.01	($0.05)	$0.092
Mar-31	4.83	$4.76	4.84	($0.06)	$0.019
Apr-31	4.78	$4.66	4.78	($0.13)	$0.000
May-31	4.81	$4.71	4.87	($0.10)	$0.055
Jun-31	4.88	$4.82	4.96	($0.06)	$0.082
Jul-31	5.21	$5.17	5.33	($0.03)	$0.116
Aug-31	5.26	$5.22	5.40	($0.04)	$0.139
Sep-31	5.16	$5.11	5.25	($0.05)	$0.086
Oct-31	5.05	$4.92	5.09	($0.08)	$0.082
Nov-31	5.07	$5.01	5.14	($0.06)	$0.066
Dec-31	5.26	$5.20	5.33	($0.05)	$0.082
Jan-32	5.28	$5.23	5.39	($0.05)	$0.106
Feb-32	5.31	$5.25	5.39	($0.06)	$0.077
Mar-32	5.29	$5.22	5.34	($0.07)	$0.050
Apr-32	5.13	$5.00	5.15	($0.13)	$0.026
May-32	5.16	$5.05	5.22	($0.10)	$0.069
Jun-32	5.19	$5.13	5.28	($0.05)	$0.095
Jul-32	5.33	$5.29	5.47	($0.04)	$0.136
Aug-32	5.38	$5.35	5.54	($0.03)	$0.159
Sep-32	5.30	$5.25	5.39	($0.05)	$0.091
Oct-32	5.27	$5.19	5.35	($0.08)	$0.088
Nov-32	5.39	$5.28	5.44	($0.11)	$0.053
Dec-32	5.56	$5.33	5.47	($0.08)	$0.072
Jan-33	5.14	$5.07	5.23	($0.06)	$0.093
Feb-33	5.17	$5.10	5.26	($0.07)	$0.091
Mar-33	5.12	$5.02	5.14	($0.10)	$0.022
Apr-33	5.12	$4.98	5.14	($0.14)	$0.016
May-33	5.15	$5.02	5.19	($0.14)	$0.032
Jun-33	5.19	$5.11	5.27	($0.08)	$0.080
Jul-33	5.39	$5.31	5.47	($0.04)	$0.119
Aug-33	5.39	$5.37	5.52	($0.02)	$0.127
Sep-33	5.32	$5.25	5.39	($0.08)	$0.068
Oct-33	5.27	$5.15	5.33	($0.12)	$0.053
Nov-33	5.43	$5.32	5.46	($0.11)	$0.033
Dec-33	5.62	$5.54	5.67	($0.08)	$0.047
Jan-34	5.66	$5.59	5.74	($0.06)	$0.080
Feb-34	5.49	$5.42	5.55	($0.07)	$0.056
Mar-34	5.34	$5.23	5.33	($0.11)	($0.009)
Apr-34	5.27	$5.14	5.28	($0.13)	$0.009
May-34	5.31	$5.17	5.35	($0.13)	$0.039
Jun-34	5.34	$5.26	5.43	($0.08)	$0.084
Jul-34	5.60	$5.55	5.72	($0.04)	$0.125
Aug-34	5.64	$5.62	5.78	($0.02)	$0.144
Sep-34	5.53	$5.46	5.61	($0.08)	$0.074
Oct-34	5.49	$5.27	5.45	($0.13)	$0.049
Nov-34	5.63	$5.52	5.67	($0.11)	$0.034
Dec-34	5.83	$5.76	5.88	($0.07)	$0.055
Jan-35	5.87	$5.81	5.96	($0.06)	$0.086
Feb-35	5.90	$5.83	5.96	($0.07)	$0.065
Mar-35	5.72	$5.61	5.74	($0.11)	$0.018
Apr-35	5.46	$5.32	5.49	($0.14)	$0.023
May-35	5.50	$5.38	5.54	($0.13)	$0.046
Jun-35	5.53	$5.45	5.62	($0.08)	$0.091
Jul-35	5.82	$5.78	5.95	($0.04)	$0.130
Aug-35	5.85	$5.83	6.00	($0.03)	$0.147
Sep-35	5.76	$5.68	5.83	($0.08)	$0.075
Oct-35	5.61	$5.48	5.66	($0.13)	$0.048
Nov-35	5.66	$5.55	5.69	($0.11)	$0.033
Dec-35	5.81	$5.74	5.87	($0.07)	$0.058
Jan-36	5.85	$5.79	5.94	($0.05)	$0.093
Feb-36	5.88	$5.80	5.91	($0.08)	$0.034
Mar-36	5.78	$5.67	5.80	($0.11)	$0.020
Apr-36	5.55	$5.41	5.57	($0.14)	$0.023
May-36	5.59	$5.45	5.64	($0.13)	$0.049
Jun-36	5.63	$5.54	5.72	($0.08)	$0.096
Jul-36	5.79	$5.75	5.93	($0.04)	$0.135
Aug-36	5.83	$5.80	5.98	($0.03)	$0.150
Sep-36	5.81	$5.73	5.90	($0.07)	$0.089
Oct-36	5.77	$5.64	5.84	($0.12)	$0.076
Nov-36	5.85	$5.74	5.90	($0.11)	$0.051
Dec-36	6.11	$6.04	6.18	($0.07)	$0.064
Jan-37	6.16	$6.10	6.27	($0.06)	$0.105
Feb-37	6.29	$6.13	6.28	($0.07)	$0.081
Mar-37	6.11	$5.99	6.13	($0.11)	$0.024
Apr-37	5.93	$5.79	5.95	($0.14)	$0.021
May-37	5.97	$5.83	6.02	($0.14)	$0.055
Jun-37	6.03	$5.95	6.14	($0.08)	$0.111
Jul-37	6.29	$6.25	6.43	($0.04)	$0.147
Aug-37	6.33	$6.30	6.47	($0.03)	$0.147
Sep-37	6.24	$6.17	6.34	($0.07)	$0.096
Oct-37	6.17	$6.04	6.25	($0.14)	$0.074
Nov-37	6.25	$6.13	6.30	($0.12)	$0.052
Dec-37	6.61	$6.48	6.59	($0.07)	$0.078
Jan-38	6.55	$6.49	6.66	($0.06)	$0.111
Feb-38	6.59	$6.52	6.68	($0.08)	$0.088
Mar-38	6.49	$6.37	6.52	($0.12)	$0.026
Apr-38	6.27	$6.13	6.31	($0.14)	$0.044
May-38	6.31	$6.17	6.37	($0.14)	$0.060
Jun-38	6.35	$6.27	6.47	($0.08)	$0.118
Jul-38	6.53	$6.49	6.69	($0.04)	$0.152
Aug-38	6.58	$6.54	6.73	($0.04)	$0.145
Sep-38	6.43	$6.36	6.54	($0.07)	$0.104
Oct-38	6.37	$6.23	6.43	($0.14)	$0.064
Nov-38	6.47	$6.35	6.55	($0.12)	$0.073
Dec-38	6.76	$6.63	6.80	($0.07)	$0.100
Jan-39	6.75	$6.68	6.87	($0.06)	$0.119
Feb-39	6.79	$6.72	6.89	($0.07)	$0.101
Mar-39	6.63	$6.51	6.66	($0.12)	$0.032
Apr-39	6.29	$6.05	6.24	($0.15)	$0.041
May-39	6.24	$6.09	6.29	($0.15)	$0.052
Jun-39	6.28	$6.19	6.39	($0.09)	$0.115
Jul-39	6.34	$6.28	6.47	($0.06)	$0.129
Aug-39	6.89	$6.84	7.04	($0.05)	$0.145
Sep-39	6.86	$6.78	6.95	($0.08)	$0.089
Oct-39	6.69	$6.46	6.69	($0.14)	$0.081
Nov-39	6.68	$6.56	6.74	($0.12)	$0.063
Dec-39	6.86	$6.80	6.97	($0.06)	$0.097
Jan-40	6.93	$6.86	7.02	($0.07)	$0.088
Feb-40	6.96	$6.85	7.02	($0.11)	$0.061
Mar-40	6.85	$6.72	6.88	($0.12)	$0.033
Apr-40	6.62	$6.47	6.63	($0.15)	$0.013
May-40	6.66	$6.51	6.72	($0.15)	$0.058
Jun-40	6.72	$6.62	6.82	($0.10)	$0.108
Jul-40	6.96	$6.91	7.11	($0.05)	$0.144
Aug-40	7.01	$6.97	7.16	($0.04)	$0.155
Sep-40	6.99	$6.91	7.09	($0.08)	$0.098
Oct-40	6.83	$6.68	6.92	($0.15)	$0.086
Nov-40	6.91	$6.78	6.98	($0.13)	$0.069
Dec-40	7.14	$7.07	7.25	($0.07)	$0.111
Jan-41	7.18	$7.12	7.30	($0.06)	$0.113
Feb-41	7.21	$7.12	7.30	($0.09)	$0.083
Mar-41	7.06	$6.93	7.10	($0.13)	$0.037
Apr-41	6.80	$6.65	6.85	($0.15)	$0.046
May-41	6.84	$6.69	6.90	($0.15)	$0.061
Jun-41	6.92	$6.83	7.04	($0.09)	$0.124
Jul-41	7.22	$7.18	7.39	($0.04)	$0.166
Aug-41	7.26	$7.24	7.42	($0.03)	$0.158
Sep-41	7.27	$7.19	7.38	($0.08)	$0.116
Oct-41	7.01	$6.87	7.09	($0.15)	$0.081
Nov-41	7.16	$7.03	7.23	($0.13)	$0.077
Dec-41	7.28	$7.20	7.49	($0.08)	$0.127
Jan-42	7.48	$7.35	7.52	($0.09)	$0.120
Feb-42	7.43	$7.35	7.52	($0.09)	$0.089
Mar-42	7.28	$7.14	7.31	($0.14)	$0.033
Apr-42	7.07	$6.91	7.12	($0.16)	$0.045
May-42	7.12	$6.96	7.18	($0.16)	$0.063
Jun-42	7.18	$7.10	7.32	($0.08)	$0.134
Jul-42	7.59	$7.51	7.72	($0.09)	$0.168
Aug-42	7.69	$7.59	7.77	($0.01)	$0.172
Sep-42	7.57	$7.50	7.69	($0.07)	$0.130
Oct-42	7.31	$7.16	7.39	($0.15)	$0.080
Nov-42	7.35	$7.22	7.43	($0.14)	$0.075
Dec-42	7.59	$7.46	7.69	($0.13)	$0.102
Jan-43	7.63	$7.53	7.74	($0.10)	$0.105
Feb-43	7.66	$7.50	7.71	($0.15)	$0.058
Mar-43	7.51	$7.37	7.54	($0.14)	$0.035
Apr-43	7.25	$7.05	7.27	($0.19)	$0.028
May-43	7.29	$7.10	7.34	($0.19)	$0.050
Jun-43	7.35	$7.19	7.45	($0.16)	$0.106
Jul-43	7.76	$7.63	7.87	($0.08)	$0.164
Aug-43	7.75	$7.69	7.91	($0.06)	$0.156
Sep-43	7.78	$7.61	7.87	($0.17)	$0.091
Oct-43	7.49	$7.32	7.56	($0.17)	$0.077
Nov-43	7.55	$7.39	7.62	($0.16)	$0.066
Dec-43	7.80	$7.65	7.89	($0.14)	$0.087
Jan-44	7.84	$7.72	7.94	($0.12)	$0.099
Feb-44	7.88	$7.72	7.94	($0.16)	$0.059
Mar-44	7.71	$7.55	7.74	($0.16)	$0.025
Apr-44	7.57	$7.36	7.60	($0.21)	$0.029
May-44	7.62	$7.40	7.65	($0.22)	$0.040
Jun-44	7.66	$7.49	7.77	($0.17)	$0.105
Jul-44	8.01	$7.93	8.17	($0.08)	$0.160
Aug-44	8.08	$8.00	8.22	($0.06)	$0.162
Sep-44	8.05	$7.85	8.13	($0.19)	$0.080
Oct-44	7.84	$7.63	7.89	($0.22)	$0.045
Nov-44	7.97	$7.78	8.03	($0.18)	$0.060
Dec-44	8.21	$8.06	8.31	($0.15)	$0.099
Jan-45	8.26	$8.14	8.37	($0.12)	$0.107
Feb-45	8.31	$8.14	8.37	($0.17)	$0.056
Mar-45	8.18	$8.01	8.21	($0.16)	$0.031
Apr-45	7.99	$7.76	8.01	($0.23)	$0.026
May-45	8.03	$7.81	8.07	($0.22)	$0.042
Jun-45	8.08	$7.91	8.19	($0.17)	$0.109
Jul-45	8.45	$8.36	8.61	($0.09)	$0.157
Aug-45	8.51	$8.44	8.68	($0.06)	$0.169
Sep-45	8.52	$8.32	8.61	($0.20)	$0.085
Oct-45	8.27	$8.05	8.33	($0.22)	$0.062
Nov-45	8.40	$8.21	8.46	($0.19)	$0.062
Dec-45	8.65	$8.49	8.75	($0.16)	$0.096
Jan-46	8.70	$8.59	8.82	($0.11)	$0.115
Feb-46	8.73	$8.56	8.79	($0.17)	$0.062
Mar-46	8.53	$8.34	8.55	($0.19)	$0.022
Apr-46	8.29	$8.05	8.31	($0.24)	$0.018
May-46	8.32	$8.10	8.37	($0.23)	$0.043
Jun-46	8.37	$8.20	8.48	($0.18)	$0.110
Jul-46	8.89	$8.70	8.96	($0.19)	$0.158
Aug-46	8.88	$8.80	9.03	($0.09)	$0.176
Sep-46	8.83	$8.63	8.91	($0.20)	$0.081
Oct-46	8.55	$8.33	8.61	($0.22)	$0.062
Nov-46	8.63	$8.43	8.69	($0.19)	$0.064
Dec-46	8.85	$8.70	8.96	($0.15)	$0.103
Jan-47	8.91	$8.80	9.03	($0.10)	$0.126
Feb-47	8.92	$8.73	8.98	($0.19)	$0.058
Mar-47	8.60	$8.39	8.62	($0.21)	$0.019
Apr-47	8.40	$8.15	8.43	($0.25)	$0.022
May-47	8.44	$8.19	8.48	($0.24)	$0.039
Jun-47	8.49	$8.33	8.61	($0.15)	$0.123
Jul-47	8.95	$8.81	9.07	($0.09)	$0.185
Aug-47	8.96	$8.90	9.14	($0.05)	$0.182
Sep-47	8.95	$8.79	9.04	($0.17)	$0.088
Oct-47	8.79	$8.56	8.85	($0.23)	$0.052
Nov-47	8.87	$8.64	8.92	($0.23)	$0.052
Dec-47	8.91	$8.73	9.00	($0.18)	$0.093
Jan-48	8.96	$8.84	9.07	($0.12)	$0.139
Feb-48	9.00	$8.79	9.04	($0.21)	$0.036
Mar-48	8.80	$8.57	8.81	($0.23)	$0.007
Apr-48	8.67	$8.41	8.69	($0.26)	$0.022
May-48	8.72	$8.47	8.75	($0.25)	$0.032
Jun-48	8.81	$8.63	8.91	($0.19)	$0.099
Jul-48	9.34	$9.22	9.48	($0.13)	$0.136
Aug-48	9.41	$9.35	9.59	($0.06)	$0.181
Sep-48	9.43	$9.23	9.50	($0.20)	$0.072
Oct-48	9.04	$8.79	9.10	($0.25)	$0.058
Nov-48	9.18	$8.94	9.23	($0.24)	$0.046
Dec-48	9.45	$9.23	9.51	($0.22)	$0.061
Jan-49	9.59	$9.32	9.59	($0.28)	$0.085
Feb-49	9.51	$9.28	9.54	($0.23)	$0.031
Mar-49	9.45	$9.22	9.46	($0.23)	$0.007
Apr-49	9.35	$9.09	9.36	($0.26)	$0.019
May-49	8.99	$8.74	9.02	($0.25)	$0.033
Jun-49	9.04	$8.83	9.13	($0.21)	$0.089
Jul-49	9.26	$9.11	9.38	($0.15)	$0.124
Aug-49	9.31	$9.18	9.46	($0.13)	$0.151
Sep-49	9.14	$8.95	9.21	($0.19)	$0.071
Oct-49	8.98	$8.73	9.03	($0.24)	$0.058
Nov-49	9.32	$9.08	9.37	($0.24)	$0.046
Dec-49	9.70	$9.49	9.76	($0.22)	$0.062
Jan-50	9.76	$9.58	9.84	($0.17)	$0.086
Feb-50	9.78	$9.55	9.82	($0.23)	$0.033
Mar-50	9.49	$9.26	9.49	($0.23)	$0.006
Apr-50	9.02	$8.76	9.04	($0.26)	$0.023
May-50	9.06	$8.81	9.09	($0.25)	$0.032
Jun-50	9.11	$8.91	9.20	($0.20)	$0.097
Jul-50	9.39	$9.24	9.52	($0.15)	$0.124
Aug-50	9.45	$9.33	9.61	($0.12)	$0.158
Sep-50	9.42	$9.23	9.50	($0.19)	$0.072
Oct-50	9.12	$8.89	9.18	($0.23)	$0.063
Nov-50	9.37	$9.13	9.42	($0.24)	$0.047
Dec-50	9.68	$9.47	9.75	($0.21)	$0.065

IHS Markit North American Natural Gas Long-Term Outlook, August 2019
Nominal $/MMBtu
Henry Hub and additional hubs

Month-Year	eYear	Henry Hub	FGT Z3	Transco Z4	FGT Z3	Transco Z4
Jan-19	2019	$ 3.07	$ (0.09)	$ (0.06)	$ 3.03	$ 3.00
Feb-19	2019	$ 2.65	$ (0.02)	$ (0.03)	$ 2.63	$ 2.62
Mar-19	2019	$ 2.60	$ (0.00)	$ (0.01)	$ 2.60	$ 2.59
Apr-19	2019	$ 2.50	$ (0.00)	$ (0.03)	$ 2.50	$ 2.47
May-19	2019	$ 2.59	$ 0.01	$ (0.00)	$ 2.60	$ 2.59
Jun-19	2019	$ 2.57	$ 0.04	$ 0.00	$ 2.60	$ 2.57
Jul-19	2019	$ 2.64	$ 0.05	$ 0.01	$ 2.69	$ 2.65
Aug-19	2019	$ 2.66	$ 0.06	$ 0.01	$ 2.72	$ 2.68
Sep-19	2019	$ 2.11	$ 0.02	$ 0.00	$ 2.13	$ 2.11
Oct-19	2019	$ 2.04	$ 0.01	$ (0.03)	$ 2.06	$ 2.01
Nov-19	2019	$ 2.09	$ 0.01	$ (0.02)	$ 2.10	$ 2.07
Dec-19	2019	$ 2.15	$ 0.02	$ (0.01)	$ 2.18	$ 2.15
Jan-20	2020	$ 2.06	$ 0.03	$ (0.01)	$ 2.09	$ 2.05
Feb-20	2020	$ 2.06	$ 0.02	$ (0.02)	$ 2.09	$ 2.04
Mar-20	2020	$ 1.97	$ (0.03)	$ (0.02)	$ 1.96	$ 1.95
Apr-20	2020	$ 1.81	$ (0.02)	$ (0.05)	$ 1.79	$ 1.76
May-20	2020	$ 1.61	$ 0.01	$ (0.05)	$ 1.62	$ 1.56
Jun-20	2020	$ 1.57	$ 0.03	$ (0.04)	$ 1.60	$ 1.53
Jul-20	2020	$ 1.72	$ 0.05	$ (0.03)	$ 1.77	$ 1.70
Aug-20	2020	$ 1.91	$ 0.05	$ (0.01)	$ 1.97	$ 1.91
Sep-20	2020	$ 2.06	$ 0.01	$ (0.04)	$ 2.08	$ 2.02
Oct-20	2020	$ 2.09	$ 0.02	$ (0.06)	$ 2.10	$ 2.02
Nov-20	2020	$ 2.08	$ 0.02	$ (0.03)	$ 2.10	$ 2.05
Dec-20	2020	$ 2.14	$ 0.03	$ (0.02)	$ 2.17	$ 2.12
Jan-21	2021	$ 2.20	$ 0.04	$ (0.01)	$ 2.24	$ 2.19
Feb-21	2021	$ 2.24	$ 0.03	$ (0.03)	$ 2.28	$ 2.22
Mar-21	2021	$ 2.16	$ (0.01)	$ (0.02)	$ 2.14	$ 2.14
Apr-21	2021	$ 2.11	$ (0.02)	$ (0.07)	$ 2.08	$ 2.03
May-21	2021	$ 2.15	$ 0.01	$ (0.07)	$ 2.15	$ 2.08
Jun-21	2021	$ 2.18	$ 0.03	$ (0.05)	$ 2.21	$ 2.13
Jul-21	2021	$ 2.21	$ 0.05	$ (0.04)	$ 2.25	$ 2.17
Aug-21	2021	$ 2.24	$ 0.06	$ (0.02)	$ 2.30	$ 2.22
Sep-21	2021	$ 2.27	$ 0.01	$ (0.03)	$ 2.29	$ 2.22
Oct-21	2021	$ 2.27	$ 0.02	$ (0.06)	$ 2.29	$ 2.21
Nov-21	2021	$ 2.33	$ 0.03	$ (0.04)	$ 2.36	$ 2.30
Dec-21	2021	$ 2.44	$ 0.04	$ (0.02)	$ 2.48	$ 2.42
Jan-22	2022	$ 2.46	$ 0.04	$ (0.02)	$ 2.50	$ 2.44
Feb-22	2022	$ 2.47	$ 0.04	$ (0.03)	$ 2.51	$ 2.44
Mar-22	2022	$ 2.48	$ (0.01)	$ (0.03)	$ 2.46	$ 2.45
Apr-22	2022	$ 2.50	$ (0.02)	$ (0.07)	$ 2.49	$ 2.43
May-22	2022	$ 2.52	$ 0.01	$ (0.07)	$ 2.52	$ 2.45
Jun-22	2022	$ 2.54	$ 0.03	$ (0.04)	$ 2.58	$ 2.50
Jul-22	2022	$ 2.61	$ 0.06	$ (0.02)	$ 2.67	$ 2.58
Aug-22	2022	$ 2.63	$ 0.07	$ (0.02)	$ 2.70	$ 2.62
Sep-22	2022	$ 2.63	$ 0.02	$ (0.05)	$ 2.65	$ 2.58
Oct-22	2022	$ 2.62	$ 0.02	$ (0.06)	$ 2.65	$ 2.56
Nov-22	2022	$ 2.70	$ 0.03	$ (0.03)	$ 2.74	$ 2.67
Dec-22	2022	$ 2.79	$ 0.04	$ (0.01)	$ 2.84	$ 2.78
Jan-23	2023	$ 2.81	$ 0.05	$ (0.02)	$ 2.86	$ 2.79
Feb-23	2023	$ 2.83	$ 0.05	$ (0.03)	$ 2.87	$ 2.79
Mar-23	2023	$ 2.77	$ (0.00)	$ (0.03)	$ 2.77	$ 2.74
Apr-23	2023	$ 2.73	$ (0.01)	$ (0.07)	$ 2.72	$ 2.66
May-23	2023	$ 2.75	$ 0.02	$ (0.06)	$ 2.76	$ 2.68
Jun-23	2023	$ 2.78	$ 0.04	$ (0.01)	$ 2.82	$ 2.73
Jul-23	2023	$ 2.87	$ 0.07	$ (0.04)	$ 2.94	$ 2.83
Aug-23	2023	$ 2.89	$ 0.08	$ (0.03)	$ 2.97	$ 2.87
Sep-23	2023	$ 2.87	$ 0.03	$ (0.01)	$ 2.90	$ 2.82
Oct-23	2023	$ 2.81	$ 0.03	$ (0.06)	$ 2.86	$ 2.79
Nov-23	2023	$ 3.01	$ 0.04	$ (0.03)	$ 3.05	$ 2.97
Dec-23	2023	$ 3.07	$ 0.05	$ (0.02)	$ 3.12	$ 3.05
Jan-24	2024	$ 3.10	$ 0.06	$ (0.03)	$ 3.15	$ 3.07
Feb-24	2024	$ 3.12	$ 0.05	$ (0.04)	$ 3.17	$ 3.07
Mar-24	2024	$ 3.10	$ (0.00)	$ (0.05)	$ 3.10	$ 3.06
Apr-24	2024	$ 3.08	$ (0.01)	$ (0.09)	$ 3.08	$ 3.00
May-24	2024	$ 3.10	$ 0.02	$ (0.08)	$ 3.12	$ 3.02
Jun-24	2024	$ 3.16	$ 0.05	$ (0.04)	$ 3.21	$ 3.10
Jul-24	2024	$ 3.27	$ 0.08	$ (0.04)	$ 3.34	$ 3.22
Aug-24	2024	$ 3.30	$ 0.08	$ (0.03)	$ 3.37	$ 3.27
Sep-24	2024	$ 3.26	$ 0.05	$ (0.06)	$ 3.31	$ 3.20
Oct-24	2024	$ 3.24	$ 0.04	$ (0.06)	$ 3.28	$ 3.18
Nov-24	2024	$ 3.37	$ 0.04	$ (0.05)	$ 3.42	$ 3.33
Dec-24	2024	$ 3.50	$ 0.06	$ (0.04)	$ 3.56	$ 3.46
Jan-25	2025	$ 3.52	$ 0.06	$ (0.03)	$ 3.58	$ 3.49
Feb-25	2025	$ 3.54	$ 0.06	$ (0.04)	$ 3.60	$ 3.50
Mar-25	2025	$ 3.48	$ (0.00)	$ (0.01)	$ 3.47	$ 3.43
Apr-25	2025	$ 3.43	$ (0.01)	$ (0.10)	$ 3.41	$ 3.33
May-25	2025	$ 3.44	$ 0.02	$ (0.09)	$ 3.46	$ 3.35
Jun-25	2025	$ 3.47	$ 0.05	$ (0.06)	$ 3.52	$ 3.41
Jul-25	2025	$ 3.65	$ 0.08	$ (0.04)	$ 3.73	$ 3.61
Aug-25	2025	$ 3.68	$ 0.08	$ (0.03)	$ 3.76	$ 3.66
Sep-25	2025	$ 3.37	$ 0.04	$ (0.08)	$ 3.41	$ 3.31
Oct-25	2025	$ 3.35	$ 0.04	$ (0.08)	$ 3.38	$ 3.27
Nov-25	2025	$ 3.44	$ 0.04	$ (0.07)	$ 3.48	$ 3.38
Dec-25	2025	$ 3.60	$ 0.05	$ (0.03)	$ 3.65	$ 3.55
Jan-26	2026	$ 3.62	$ 0.06	$ (0.05)	$ 3.68	$ 3.58
Feb-26	2026	$ 3.64	$ 0.05	$ (0.03)	$ 3.70	$ 3.59
Mar-26	2026	$ 3.56	$ (0.00)	$ (0.06)	$ 3.55	$ 3.50
Apr-26	2026	$ 3.50	$ (0.00)	$ (0.09)	$ 3.50	$ 3.41
May-26	2026	$ 3.52	$ 0.02	$ (0.09)	$ 3.54	$ 3.43
Jun-26	2026	$ 3.57	$ 0.05	$ (0.06)	$ 3.62	$ 3.51
Jul-26	2026	$ 3.82	$ 0.08	$ (0.04)	$ 3.90	$ 3.78
Aug-26	2026	$ 3.85	$ 0.08	$ (0.04)	$ 3.93	$ 3.81
Sep-26	2026	$ 3.70	$ 0.04	$ (0.06)	$ 3.74	$ 3.64
Oct-26	2026	$ 3.64	$ 0.03	$ (0.09)	$ 3.68	$ 3.55
Nov-26	2026	$ 3.70	$ 0.04	$ (0.06)	$ 3.74	$ 3.64
Dec-26	2026	$ 3.87	$ 0.05	$ (0.03)	$ 3.92	$ 3.82
Jan-27	2027	$ 3.89	$ 0.06	$ (0.04)	$ 3.95	$ 3.85
Feb-27	2027	$ 3.91	$ 0.06	$ (0.03)	$ 3.97	$ 3.88
Mar-27	2027	$ 3.85	$ (0.00)	$ (0.06)	$ 3.85	$ 3.79
Apr-27	2027	$ 3.71	$ (0.00)	$ (0.10)	$ 3.71	$ 3.62
May-27	2027	$ 3.74	$ 0.02	$ (0.10)	$ 3.76	$ 3.64
Jun-27	2027	$ 3.81	$ 0.05	$ (0.06)	$ 3.86	$ 3.75
Jul-27	2027	$ 4.10	$ 0.08	$ (0.04)	$ 4.17	$ 4.05
Aug-27	2027	$ 4.12	$ 0.08	$ (0.03)	$ 4.21	$ 4.09
Sep-27	2027	$ 4.08	$ 0.04	$ (0.07)	$ 4.12	$ 4.01
Oct-27	2027	$ 3.89	$ 0.04	$ (0.09)	$ 3.93	$ 3.80
Nov-27	2027	$ 3.95	$ 0.04	$ (0.06)	$ 4.00	$ 3.89
Dec-27	2027	$ 4.14	$ 0.05	$ (0.03)	$ 4.20	$ 4.10
Jan-28	2028	$ 4.17	$ 0.06	$ (0.03)	$ 4.23	$ 4.14
Feb-28	2028	$ 4.20	$ 0.05	$ (0.06)	$ 4.24	$ 4.14
Mar-28	2028	$ 4.10	$ (0.00)	$ (0.07)	$ 4.10	$ 4.03
Apr-28	2028	$ 4.07	$ (0.01)	$ (0.13)	$ 4.06	$ 3.96
May-28	2028	$ 4.10	$ 0.02	$ (0.10)	$ 4.12	$ 4.00
Jun-28	2028	$ 4.28	$ 0.06	$ (0.06)	$ 4.34	$ 4.22
Jul-28	2028	$ 4.27	$ 0.09	$ (0.04)	$ 4.37	$ 4.24
Aug-28	2028	$ 4.31	$ 0.09	$ (0.03)	$ 4.40	$ 4.28
Sep-28	2028	$ 4.35	$ 0.05	$ (0.06)	$ 4.40	$ 4.29
Oct-28	2028	$ 4.31	$ 0.04	$ (0.09)	$ 4.35	$ 4.22
Nov-28	2028	$ 4.35	$ 0.05	$ (0.07)	$ 4.40	$ 4.28
Dec-28	2028	$ 4.60	$ 0.05	$ (0.05)	$ 4.65	$ 4.54
Jan-29	2029	$ 4.64	$ 0.08	$ (0.03)	$ 4.72	$ 4.61
Feb-29	2029	$ 4.67	$ 0.07	$ (0.05)	$ 4.74	$ 4.62
Mar-29	2029	$ 4.45	$ 0.01	$ (0.06)	$ 4.46	$ 4.39
Apr-29	2029	$ 4.47	$ 0.00	$ (0.10)	$ 4.47	$ 4.36
May-29	2029	$ 4.53	$ 0.03	$ (0.10)	$ 4.56	$ 4.43
Jun-29	2029	$ 4.66	$ 0.06	$ (0.07)	$ 4.72	$ 4.58
Jul-29	2029	$ 4.39	$ 0.09	$ (0.05)	$ 4.48	$ 4.34
Aug-29	2029	$ 4.42	$ 0.10	$ (0.03)	$ 4.52	$ 4.38
Sep-29	2029	$ 4.54	$ 0.05	$ (0.07)	$ 4.59	$ 4.46
Oct-29	2029	$ 4.52	$ 0.04	$ (0.10)	$ 4.57	$ 4.43
Nov-29	2029	$ 4.43	$ 0.06	$ (0.04)	$ 4.49	$ 4.39
Dec-29	2029	$ 4.63	$ 0.06	$ (0.04)	$ 4.70	$ 4.59
Jan-30	2030	$ 4.67	$ 0.08	$ (0.03)	$ 4.74	$ 4.64
Feb-30	2030	$ 4.69	$ 0.07	$ (0.04)	$ 4.76	$ 4.65
Mar-30	2030	$ 4.58	$ 0.00	$ (0.05)	$ 4.59	$ 4.53
Apr-30	2030	$ 4.55	$ (0.01)	$ (0.12)	$ 4.54	$ 4.43
May-30	2030	$ 4.58	$ 0.03	$ (0.10)	$ 4.61	$ 4.48
Jun-30	2030	$ 4.65	$ 0.07	$ (0.05)	$ 4.72	$ 4.61
Jul-30	2030	$ 4.98	$ 0.10	$ (0.02)	$ 5.09	$ 4.96
Aug-30	2030	$ 5.02	$ 0.11	$ 0.00	$ 5.13	$ 5.02
Sep-30	2030	$ 4.95	$ 0.06	$ (0.01)	$ 5.00	$ 4.89
Oct-30	2030	$ 4.72	$ 0.05	$ (0.08)	$ 4.77	$ 4.64
Nov-30	2030	$ 4.64	$ 0.06	$ (0.04)	$ 4.69	$ 4.59
Dec-30	2030	$ 4.86	$ 0.06	$ (0.04)	$ 4.93	$ 4.82
Jan-31	2031	$ 4.89	$ 0.10	$ (0.04)	$ 4.99	$ 4.85
Feb-31	2031	$ 4.92	$ 0.09	$ (0.00)	$ 5.01	$ 4.87
Mar-31	2031	$ 4.83	$ 0.02	$ (0.06)	$ 4.84	$ 4.76
Apr-31	2031	$ 4.78	$ 0.00	$ (0.12)	$ 4.78	$ 4.66
May-31	2031	$ 4.81	$ 0.06	$ (0.10)	$ 4.87	$ 4.71
Jun-31	2031	$ 4.88	$ 0.08	$ (0.06)	$ 4.96	$ 4.82
Jul-31	2031	$ 5.21	$ 0.12	$ (0.03)	$ 5.33	$ 5.17
Aug-31	2031	$ 5.26	$ 0.14	$ (0.04)	$ 5.40	$ 5.22
Sep-31	2031	$ 5.16	$ 0.09	$ (0.01)	$ 5.25	$ 5.11
Oct-31	2031	$ 5.00	$ 0.08	$ (0.08)	$ 5.09	$ 4.92
Nov-31	2031	$ 5.07	$ 0.07	$ (0.00)	$ 5.14	$ 5.01
Dec-31	2031	$ 5.25	$ 0.08	$ (0.03)	$ 5.33	$ 5.20
Jan-32	2032	$ 5.28	$ 0.11	$ (0.03)	$ 5.39	$ 5.23
Feb-32	2032	$ 5.31	$ 0.08	$ (0.00)	$ 5.39	$ 5.25
Mar-32	2032	$ 5.29	$ 0.05	$ (0.07)	$ 5.34	$ 5.22
Apr-32	2032	$ 5.13	$ 0.03	$ (0.13)	$ 5.15	$ 5.00
May-32	2032	$ 5.16	$ 0.07	$ (0.10)	$ 5.23	$ 5.05
Jun-32	2032	$ 5.19	$ 0.09	$ (0.00)	$ 5.28	$ 5.13
Jul-32	2032	$ 5.33	$ 0.14	$ (0.04)	$ 5.47	$ 5.29
Aug-32	2032	$ 5.38	$ 0.16	$ (0.03)	$ 5.54	$ 5.35
Sep-32	2032	$ 5.30	$ 0.09	$ (0.00)	$ 5.39	$ 5.25
Oct-32	2032	$ 5.27	$ 0.09	$ (0.08)	$ 5.35	$ 5.19
Nov-32	2032	$ 5.39	$ 0.05	$ (0.10)	$ 5.44	$ 5.28
Dec-32	2032	$ 5.40	$ 0.07	$ (0.08)	$ 5.47	$ 5.33
Jan-33	2033	$ 5.14	$ 0.09	$ (0.06)	$ 5.23	$ 5.07
Feb-33	2033	$ 5.17	$ 0.09	$ (0.07)	$ 5.26	$ 5.10
Mar-33	2033	$ 5.12	$ 0.02	$ (0.10)	$ 5.14	$ 5.02
Apr-33	2033	$ 5.12	$ 0.02	$ (0.14)	$ 5.14	$ 4.98
May-33	2033	$ 5.15	$ 0.03	$ (0.14)	$ 5.19	$ 5.02
Jun-33	2033	$ 5.19	$ 0.08	$ (0.08)	$ 5.27	$ 5.11
Jul-33	2033	$ 5.35	$ 0.12	$ (0.04)	$ 5.47	$ 5.31
Aug-33	2033	$ 5.39	$ 0.13	$ (0.02)	$ 5.52	$ 5.37
Sep-33	2033	$ 5.32	$ 0.07	$ (0.08)	$ 5.39	$ 5.25
Oct-33	2033	$ 5.27	$ 0.05	$ (0.12)	$ 5.33	$ 5.15
Nov-33	2033	$ 5.43	$ 0.03	$ (0.11)	$ 5.46	$ 5.32
Dec-33	2033	$ 5.62	$ 0.05	$ (0.08)	$ 5.67	$ 5.54
Jan-34	2034	$ 5.66	$ 0.08	$ (0.08)	$ 5.74	$ 5.59
Feb-34	2034	$ 5.49	$ 0.06	$ (0.07)	$ 5.55	$ 5.42
Mar-34	2034	$ 5.34	$ (0.00)	$ (0.13)	$ 5.33	$ 5.23
Apr-34	2034	$ 5.27	$ 0.01	$ (0.13)	$ 5.28	$ 5.14
May-34	2034	$ 5.31	$ 0.04	$ (0.13)	$ 5.35	$ 5.17
Jun-34	2034	$ 5.34	$ 0.08	$ (0.08)	$ 5.43	$ 5.26
Jul-34	2034	$ 5.60	$ 0.12	$ (0.04)	$ 5.72	$ 5.55
Aug-34	2034	$ 5.64	$ 0.14	$ (0.02)	$ 5.78	$ 5.62
Sep-34	2034	$ 5.53	$ 0.07	$ (0.08)	$ 5.61	$ 5.46
Oct-34	2034	$ 5.40	$ 0.05	$ (0.13)	$ 5.45	$ 5.27
Nov-34	2034	$ 5.63	$ 0.03	$ (0.11)	$ 5.67	$ 5.52
Dec-34	2034	$ 5.83	$ 0.06	$ (0.07)	$ 5.88	$ 5.76
Jan-35	2035	$ 5.87	$ 0.09	$ (0.06)	$ 5.96	$ 5.81
Feb-35	2035	$ 5.90	$ 0.06	$ (0.07)	$ 5.96	$ 5.83
Mar-35	2035	$ 5.72	$ 0.02	$ (0.11)	$ 5.74	$ 5.61
Apr-35	2035	$ 5.46	$ 0.02	$ (0.14)	$ 5.49	$ 5.32
May-35	2035	$ 5.50	$ 0.05	$ (0.13)	$ 5.54	$ 5.36
Jun-35	2035	$ 5.53	$ 0.09	$ (0.08)	$ 5.62	$ 5.45
Jul-35	2035	$ 5.82	$ 0.13	$ (0.04)	$ 5.95	$ 5.78
Aug-35	2035	$ 5.85	$ 0.15	$ (0.03)	$ 6.00	$ 5.83
Sep-35	2035	$ 5.76	$ 0.07	$ (0.08)	$ 5.83	$ 5.68
Oct-35	2035	$ 5.61	$ 0.05	$ (0.13)	$ 5.66	$ 5.48
Nov-35	2035	$ 5.66	$ 0.03	$ (0.11)	$ 5.69	$ 5.55
Dec-35	2035	$ 5.81	$ 0.06	$ (0.07)	$ 5.87	$ 5.74
Jan-36	2036	$ 5.85	$ 0.09	$ (0.06)	$ 5.94	$ 5.79
Feb-36	2036	$ 5.88	$ 0.03	$ (0.08)	$ 5.91	$ 5.80
Mar-36	2036	$ 5.78	$ 0.02	$ (0.11)	$ 5.80	$ 5.67
Apr-36	2036	$ 5.55	$ 0.02	$ (0.14)	$ 5.57	$ 5.41
May-36	2036	$ 5.59	$ 0.05	$ (0.13)	$ 5.64	$ 5.45
Jun-36	2036	$ 5.63	$ 0.10	$ (0.08)	$ 5.72	$ 5.54
Jul-36	2036	$ 5.79	$ 0.13	$ (0.04)	$ 5.93	$ 5.75
Aug-36	2036	$ 5.83	$ 0.15	$ (0.03)	$ 5.98	$ 5.80
Sep-36	2036	$ 5.81	$ 0.09	$ (0.07)	$ 5.90	$ 5.73
Oct-36	2036	$ 5.77	$ 0.08	$ (0.12)	$ 5.84	$ 5.64
Nov-36	2036	$ 5.85	$ 0.05	$ (0.10)	$ 5.90	$ 5.74
Dec-36	2036	$ 6.11	$ 0.06	$ (0.07)	$ 6.18	$ 6.04
Jan-37	2037	$ 6.16	$ 0.11	$ (0.06)	$ 6.27	$ 6.10
Feb-37	2037	$ 6.20	$ 0.08	$ (0.07)	$ 6.28	$ 6.13
Mar-37	2037	$ 6.11	$ 0.02	$ (0.11)	$ 6.13	$ 5.99
Apr-37	2037	$ 5.93	$ 0.02	$ (0.14)	$ 5.95	$ 5.79
May-37	2037	$ 5.97	$ 0.05	$ (0.14)	$ 6.02	$ 5.83
Jun-37	2037	$ 6.03	$ 0.11	$ (0.08)	$ 6.14	$ 5.95
Jul-37	2037	$ 6.29	$ 0.15	$ (0.04)	$ 6.43	$ 6.25
Aug-37	2037	$ 6.33	$ 0.15	$ (0.03)	$ 6.47	$ 6.30
Sep-37	2037	$ 6.24	$ 0.10	$ (0.07)	$ 6.34	$ 6.17
Oct-37	2037	$ 6.17	$ 0.07	$ (0.14)	$ 6.25	$ 6.04
Nov-37	2037	$ 6.25	$ 0.05	$ (0.12)	$ 6.30	$ 6.13
Dec-37	2037	$ 6.51	$ 0.08	$ (0.07)	$ 6.59	$ 6.44
Jan-38	2038	$ 6.55	$ 0.11	$ (0.06)	$ 6.66	$ 6.49
Feb-38	2038	$ 6.59	$ 0.09	$ (0.08)	$ 6.68	$ 6.52
Mar-38	2038	$ 6.49	$ 0.03	$ (0.12)	$ 6.52	$ 6.37
Apr-38	2038	$ 6.27	$ 0.04	$ (0.14)	$ 6.31	$ 6.13
May-38	2038	$ 6.31	$ 0.06	$ (0.14)	$ 6.37	$ 6.17
Jun-38	2038	$ 6.35	$ 0.12	$ (0.08)	$ 6.47	$ 6.27
Jul-38	2038	$ 6.53	$ 0.15	$ (0.04)	$ 6.69	$ 6.49
Aug-38	2038	$ 6.58	$ 0.14	$ (0.04)	$ 6.73	$ 6.54
Sep-38	2038	$ 6.43	$ 0.10	$ (0.07)	$ 6.54	$ 6.36
Oct-38	2038	$ 6.37	$ 0.06	$ (0.14)	$ 6.43	$ 6.23
Nov-38	2038	$ 6.47	$ 0.07	$ (0.12)	$ 6.55	$ 6.35
Dec-38	2038	$ 6.70	$ 0.10	$ (0.07)	$ 6.80	$ 6.63
Jan-39	2039	$ 6.75	$ 0.12	$ (0.06)	$ 6.87	$ 6.68
Feb-39	2039	$ 6.79	$ 0.10	$ (0.07)	$ 6.89	$ 6.72
Mar-39	2039	$ 6.63	$ 0.03	$ (0.12)	$ 6.66	$ 6.51
Apr-39	2039	$ 6.20	$ 0.04	$ (0.15)	$ 6.24	$ 6.05
May-39	2039	$ 6.24	$ 0.05	$ (0.15)	$ 6.29	$ 6.09
Jun-39	2039	$ 6.28	$ 0.11	$ (0.09)	$ 6.39	$ 6.19
Jul-39	2039	$ 6.34	$ 0.13	$ (0.06)	$ 6.47	$ 6.28
Aug-39	2039	$ 6.89	$ 0.15	$ (0.01)	$ 7.04	$ 6.84
Sep-39	2039	$ 6.86	$ 0.09	$ (0.08)	$ 6.95	$ 6.78
Oct-39	2039	$ 6.60	$ 0.08	$ (0.14)	$ 6.69	$ 6.46
Nov-39	2039	$ 6.68	$ 0.06	$ (0.12)	$ 6.74	$ 6.56
Dec-39	2039	$ 6.88	$ 0.09	$ (0.09)	$ 6.97	$ 6.80
Jan-40	2040	$ 6.93	$ 0.10	$ (0.07)	$ 7.02	$ 6.86
Feb-40	2040	$ 6.96	$ 0.06	$ (0.11)	$ 7.02	$ 6.85
Mar-40	2040	$ 6.85	$ 0.03	$ (0.12)	$ 6.88	$ 6.72
Apr-40	2040	$ 6.62	$ 0.01	$ (0.13)	$ 6.63	$ 6.47
May-40	2040	$ 6.66	$ 0.06	$ (0.15)	$ 6.72	$ 6.51
Jun-40	2040	$ 6.72	$ 0.11	$ (0.10)	$ 6.82	$ 6.62
Jul-40	2040	$ 6.96	$ 0.14	$ (0.05)	$ 7.11	$ 6.91
Aug-40	2040	$ 7.01	$ 0.15	$ (0.04)	$ 7.16	$ 6.97
Sep-40	2040	$ 6.99	$ 0.10	$ (0.08)	$ 7.09	$ 6.91
Oct-40	2040	$ 6.83	$ 0.09	$ (0.10)	$ 6.92	$ 6.73
Nov-40	2040	$ 6.91	$ 0.07	$ (0.12)	$ 6.98	$ 6.79
Dec-40	2040	$ 7.14	$ 0.11	$ (0.07)	$ 7.25	$ 7.07
Jan-41	2041	$ 7.19	$ 0.11	$ (0.06)	$ 7.30	$ 7.13
Feb-41	2041	$ 7.21	$ 0.08	$ (0.09)	$ 7.30	$ 7.12
Mar-41	2041	$ 7.06	$ 0.04	$ (0.13)	$ 7.10	$ 6.93
Apr-41	2041	$ 6.80	$ 0.05	$ (0.10)	$ 6.85	$ 6.65
May-41	2041	$ 6.84	$ 0.06	$ (0.15)	$ 6.90	$ 6.69
Jun-41	2041	$ 6.92	$ 0.12	$ (0.09)	$ 7.04	$ 6.83
Jul-41	2041	$ 7.22	$ 0.17	$ (0.04)	$ 7.39	$ 7.18
Aug-41	2041	$ 7.26	$ 0.16	$ (0.03)	$ 7.42	$ 7.24
Sep-41	2041	$ 7.27	$ 0.13	$ (0.08)	$ 7.38	$ 7.19
Oct-41	2041	$ 7.03	$ 0.06	$ (0.10)	$ 7.09	$ 6.87
Nov-41	2041	$ 7.16	$ 0.08	$ (0.13)	$ 7.23	$ 7.03
Dec-41	2041	$ 7.36	$ 0.13	$ (0.06)	$ 7.49	$ 7.30
Jan-42	2042	$ 7.40	$ 0.12	$ (0.05)	$ 7.52	$ 7.35
Feb-42	2042	$ 7.43	$ 0.09	$ (0.09)	$ 7.52	$ 7.35
Mar-42	2042	$ 7.28	$ 0.03	$ (0.14)	$ 7.31	$ 7.14
Apr-42	2042	$ 7.07	$ 0.05	$ (0.16)	$ 7.12	$ 6.91
May-42	2042	$ 7.12	$ 0.06	$ (0.16)	$ 7.18	$ 6.96
Jun-42	2042	$ 7.18	$ 0.13	$ (0.08)	$ 7.32	$ 7.10
Jul-42	2042	$ 7.55	$ 0.17	$ (0.03)	$ 7.72	$ 7.51
Aug-42	2042	$ 7.60	$ 0.17	$ (0.01)	$ 7.77	$ 7.59
Sep-42	2042	$ 7.57	$ 0.12	$ (0.07)	$ 7.69	$ 7.50
Oct-42	2042	$ 7.31	$ 0.08	$ (0.15)	$ 7.39	$ 7.16
Nov-42	2042	$ 7.35	$ 0.07	$ (0.14)	$ 7.43	$ 7.22
Dec-42	2042	$ 7.59	$ 0.10	$ (0.13)	$ 7.69	$ 7.46
Jan-43	2043	$ 7.63	$ 0.10	$ (0.10)	$ 7.74	$ 7.53
Feb-43	2043	$ 7.66	$ 0.06	$ (0.15)	$ 7.71	$ 7.50
Mar-43	2043	$ 7.51	$ 0.04	$ (0.14)	$ 7.54	$ 7.37
Apr-43	2043	$ 7.25	$ 0.03	$ (0.19)	$ 7.27	$ 7.05
May-43	2043	$ 7.29	$ 0.05	$ (0.19)	$ 7.34	$ 7.10
Jun-43	2043	$ 7.35	$ 0.11	$ (0.16)	$ 7.45	$ 7.19
Jul-43	2043	$ 7.70	$ 0.16	$ (0.08)	$ 7.87	$ 7.63

FL June 2019 FOF

Natural Gas Report

MMBtu = Dt

MMBtu (000)

Plant	Unit	2019	2020	2021	2022	2023
ANCLOTE	1	5,725,519.967	5,057,647.146	6,204,051.752	8,448,913.808	6,721,040.467
ANCLOTE	2	3,993,127.573	3,120,861.778	4,906,149.624	2,223,286.471	1,894,315.903
ANCLOTE	*Total*	***9,718,647.540***	***8,178,508.925***	***11,110,201.376***	***10,672,200.279***	***8,615,356.370***
AVON PK	P 1	.000	.000	.000	.000	.000
AVON PK	*Total*	***.000***	***.000***	***.000***	***.000***	***.000***
BARTOW	CC1	23,157,747.439	55,794,749.663	55,348,300.707	55,109,823.646	54,944,546.049
BARTOW	P 2	3,892.042	7,025.668	5,986.380	6,468.973	6,811.767
BARTOW	P 4	5,830.031	8,417.662	8,363.979	9,641.229	6,299.716
BARTOW	*Total*	***23,167,469.511***	***55,810,192.992***	***55,362,651.065***	***55,125,933.849***	***54,957,657.532***
Citrus CC #1	1	20,678,864.852	41,415,942.741	41,309,760.894	41,496,989.884	41,471,709.073
Citrus CC #1	*Total*	***20,678,864.852***	***41,415,942.741***	***41,309,760.894***	***41,496,989.884***	***41,471,709.073***
Citrus CC #2	1	20,526,481.161	41,341,557.256	41,574,498.947	41,336,340.197	41,514,692.387
Citrus CC #2	*Total*	***20,526,481.161***	***41,341,557.256***	***41,574,498.947***	***41,336,340.197***	***41,514,692.387***
DEBARY	P 7	269,390.385	360,105.282	374,198.701	475,267.146	470,704.634
DEBARY	P 8	160,350.261	190,118.447	186,923.627	234,503.817	191,787.853
DEBARY	P 9	328,047.299	441,791.553	545,985.617	582,987.413	614,755.194
DEBARY	*Total*	***757,787.945***	***992,015.282***	***1,107,107.946***	***1,292,758.376***	***1,277,247.681***
HIGGINS	P 1	0.000	0.000	0.000	0.000	0.000
HIGGINS	P 2	904.703	1,050.310	0.000	0.000	0.000
HIGGINS	P 3	4,437.949	4,049.245	0.000	0.000	0.000
HIGGINS	P 4	5,398.830	4,992.561	0.000	0.000	0.000
HIGGINS	*Total*	***10,741.481***	***10,092.116***	***.000***	***.000***	***.000***
HINES	1	12,676,475.855	22,277,822.109	21,765,706.117	23,089,199.097	22,864,999.481
HINES	2	12,179,056.870	21,090,125.016	22,047,818.960	20,563,455.713	22,347,448.592
HINES	3	11,069,071.225	23,568,446.242	20,918,240.431	23,246,826.556	23,217,632.190
HINES	4	11,820,825.918	25,341,724.876	26,883,761.652	24,859,943.901	24,564,743.041
HINES	*Total*	***47,745,429.868***	***92,278,118.243***	***91,615,527.161***	***91,759,425.267***	***92,994,823.305***
INT CITY	P 7	124,440.073	121,793.566	126,356.043	138,774.686	136,269.017
INT CITY	P 8	210,789.836	260,365.053	315,709.987	334,336.389	297,680.610
INT CITY	P 9	216,916.865	266,450.466	318,494.417	252,301.309	344,891.640
INT CITY	P10	119,334.821	125,907.311	91,750.140	145,585.394	132,809.890
INT CITY	P12	22,514.713	27,163.780	42,155.279	43,384.841	40,278.127
INT CITY	P13	62,379.893	62,027.291	44,430.899	59,687.655	52,717.012
INT CITY	P14	10,755.056	18,022.529	23,049.699	22,516.202	15,079.727
INT CITY	*Total*	***767,131.256***	***881,729.996***	***961,946.465***	***996,586.477***	***1,019,726.023***
Osprey 2017	1	12,112,151.229	13,600,566.130	11,407,637.240	11,442,740.440	11,243,453.190
Osprey 2017	*Total*	***12,112,151.229***	***13,600,566.130***	***11,407,637.240***	***11,442,740.440***	***11,243,453.190***
Osprey PPA		.000	.000	.000	.000	.000
Osprey PPA	*Total*	***.000***	***.000***	***.000***	***.000***	***.000***
Shady Hills	1	1,248,676.277	1,028,608.323	1,732,052.434	1,961,818.091	1,939,198.606
Shady Hills	2	1,301,016.042	1,060,593.146	1,888,539.527	2,213,353.854	2,043,555.050
Shady Hills	3	1,395,505.498	1,151,769.883	1,798,265.840	2,015,087.688	1,953,103.810
Shady Hills	*Total*	***3,945,197.818***	***3,240,971.351***	***5,418,857.801***	***6,190,259.633***	***5,935,857.466***
SUWANNEE	1	.000	.000	.000	.000	.000
SUWANNEE	2	.000	.000	.000	.000	.000
SUWANNEE	3	.000	.000	.000	.000	.000
SUWANNEE	P 1	123,629.808	182,701.577	234,113.811	235,450.154	237,939.708
SUWANNEE	P 3	135,848.367	223,660.381	249,518.268	283,623.349	271,915.862
SUWANNEE	*Total*	***259,478.175***	***406,361.959***	***483,632.079***	***519,073.503***	***509,855.569***
TIGERBAY	1	4,295,906.643	6,328,843.964	6,767,734.546	7,138,022.829	6,433,670.738
TIGERBAY	*Total*	***4,295,906.643***	***6,328,843.964***	***6,767,734.546***	***7,138,022.829***	***6,433,670.738***
U OF FL	P 1	1,641,841.291	2,912,322.316	3,266,074.538	3,266,700.778	3,266,039.851
U OF FL	*Total*	***1,641,841.291***	***2,912,322.316***	***3,266,074.538***	***3,266,700.778***	***3,266,039.851***
Vandolah (NSG)	1	187,362.334	221,784.676	263,300.783	352,410.271	297,840.652
Vandolah (NSG)	2	186,363.911	249,792.142	301,630.904	394,291.197	297,000.280
Vandolah (NSG)	3	190,672.401	229,393.647	317,779.248	372,806.384	316,043.236
Vandolah (NSG)	4	223,240.821	294,660.535	320,464.557	382,482.946	338,576.134
Vandolah (NSG)	*Total*	***787,639.466***	***995,631.000***	***1,203,175.492***	***1,501,990.797***	***1,249,460.302***
TOTAL		**146,414,768.235**	**268,392,854.271**	**271,588,805.550**	**272,739,022.309**	**270,489,549.487**

DEF Aware 2019 DSP Installed 3/29/19 - 2029 Demo Conversion and Def Forecast Installed 7/30/19

	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038
Def Load Summary - by Month	Jan-19	Feb-19	Mar-19	Apr-19	May-19	Jun-19	Jul-19	Aug-19	Sep-19	Oct-19	Nov-19	Dec-19	Jan-20	Feb-20	Mar-20	Apr-20	May-20	Jun-20	Jul-20	Aug-20
Def Load Summary - by Season	Winter				Summer								Winter							
Year	2019				2019								2020							
Def Load	29,420,994	24,586,389	21,753,744	18,423,138	20,424,442	26,704,518	34,804,448	36,704,518	32,404,442	26,704,518	21,753,744	24,586,389	29,420,994	24,586,389	21,753,744	18,423,138	20,424,442	26,704,518	34,804,448	36,704,518
Load Adj	29,420,994	24,586,389	21,753,744	18,423,138	20,424,442	26,704,518	34,804,448	36,704,518	32,404,442	26,704,518	21,753,744	24,586,389	29,420,994	24,586,389	21,753,744	18,423,138	20,424,442	26,704,518	34,804,448	36,704,518
Conversion & Cure																				
CC Cure	31	28	31	30	31	30	31	31	30	31	30	31	31	28	31	30	31	30	31	31
CC Conv	31	28	31	30	31	30	31	31	30	31	30	31	31	28	31	30	31	30	31	31
Conversion Overrated Days																				
Total CC Conv	29,420,994	24,586,389	21,753,744	18,423,138	20,424,442	26,704,518	34,804,448	36,704,518	32,404,442	26,704,518	21,753,744	24,586,389	29,420,994	24,586,389	21,753,744	18,423,138	20,424,442	26,704,518	34,804,448	36,704,518
Total CC Cure	29,420,994	24,586,389	21,753,744	18,423,138	20,424,442	26,704,518	34,804,448	36,704,518	32,404,442	26,704,518	21,753,744	24,586,389	29,420,994	24,586,389	21,753,744	18,423,138	20,424,442	26,704,518	34,804,448	36,704,518
Total CC Cure Scheduled	31,420,994	26,586,389	23,753,744	20,423,138	22,424,442	28,704,518	36,804,448	38,704,518	34,404,442	28,704,518	23,753,744	26,586,389	31,420,994	26,586,389	23,753,744	20,423,138	22,424,442	28,704,518	36,804,448	38,704,518
Total CF	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)	(2,000,000)
CC Cure Runs	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CC Cure Runs with Dark Spots	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Total CC Cure	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Cure Runs Overrated Days																				
Total Cure Runs	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Cure Runs Scheduled	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
Cure Runs Needed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj Adj Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj Adj Adj Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj Adj Adj Adj Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj Adj	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Cure Runs Needed Diff Adj Cum Adj

DEF GAS TRANSPORTATION SCHEDULES

Non Executed - Subject to Chance Estimates

Updated 8/28/19

0

FT CAPACITY
(MMBTU/DAY)

FT DEMAND RATES
($/MMBTU)

	2024 3X1 Generic	2026 3X1 Generic	2028 3X1 Generic	Total Including Unexecuted Projects

	FGT FTS-1	FGT FTS-2	FGT FTS-3	FGT FTS-4	PGS	Compress Extension 6NC Cypress Elba LNG	6NC Cypress Phase VII	Elba Bundled Term	FGT Total FT	GulfSt Phase VI	GulfSt Anclote	Reliant Short Term	Reliant Short Term	GulfSt Bartow	GulfSt Hines	GulfSt Bartow	GulfSt Osprey	GulfSt Bartow	GulfSt Storage	GulfSt Storage	GulfSt Storage	Bay Gas Storage	Bay Gas Storage	Bay Gas Storage	8400067 Southern South	Transeric Mobil Bay South	Sabal Trail	Destin South
Jan-19	61,849	46,059	75,000	30,000		50,378	50,000		262,938	########				########	35,000	7,000	68,000	500,000	500,000	1,000,000	200,000	257,000	300,000							
Feb-19	61,909	46,059	75,000	30,000		50,378	50,000		262,988	########				########	35,000	7,000	68,000	500,000	500,000	1,000,000	200,000	257,000	300,000							
Mar-19	61,795	43,628	75,000	30,000		50,378	50,000		260,423	########				########	35,000	7,000	68,000	500,000	500,000	1,000,000	200,000	257,000	300,000							
Apr-19	59,131	45,506	75,000	30,000		50,378	50,000		259,637	########				########	35,000	7,000	68,000	500,000	500,000	1,000,000	200,000	257,000	300,000							
May-19	50,303	94,506	75,000	30,000		100,756	100,000		349,837	########				########	35,000	7,000	68,000	750,000	500,000	1,000,000	200,000	257,000	300,000							
Jun-19	50,301	94,506	75,000	30,000		100,756	100,000		349,837	########				########	35,000	7,000	68,000	750,000	500,000	1,000,000	200,000	257,000	300,000							
Jul-19	50,316	94,506	75,000	30,000		100,756	100,000		349,822	########				########	35,000	7,000	68,000	750,000	500,000	1,000,000	200,000	257,000	300,000							
Aug-19	50,351	94,506	75,000	30,000		100,756	100,000		349,857	########				########	35,000	7,000	68,000	750,000	500,000	1,000,000	200,000	257,000	300,000							
Sep-19	50,743	94,506	75,000	30,000		100,756	100,000		350,249	########				########	35,000	7,000	68,000	750,000	500,000	1,000,000	200,000	257,000	300,000							
Oct-19	50,050	57,404	75,000	30,000		50,378	50,000		262,454	########				########	35,000	7,000	68,000	750,000	500,000	1,000,000	200,000	257,000	300,000							
Nov-19	62,006	46,059	75,000	30,000		50,378	50,000		263,065	########				########	35,000	7,000	68,000	200,000	257,000	300,000										
Dec-19	62,216	46,059	75,000	30,000		50,378	50,000		263,275	########				########	35,000	7,000	68,000	200,000	257,000	300,000										
Jan-20	61,849	46,059	75,000	30,000		50,378	50,000		262,938	########				########	35,000	7,000	68,000	500,000	500,000	1,000,000	200,000	257,000	300,000							
Feb-20	61,909	46,059	75,000	30,000		50,378	50,000		262,988	########				########	35,000	7,000	68,000	500,000	500,000	1,000,000	200,000	257,000	300,000							
Mar-20	61,795	43,628	75,000	30,000		50,378	50,000		260,423	########				########	35,000	7,000	68,000	500,000	500,000	1,000,000	200,000	257,000	300,000							
Apr-20	59,131	45,506	75,000	30,000		50,378	50,000		259,637	########				########	35,000	7,000	68,000	500,000	500,000	1,000,000	200,000	257,000	300,000							
May-20	50,303	94,506	75,000	30,000		100,756	100,000		349,837	########				########	35,000	7,000	68,000	750,000	500,000	1,000,000	200,000	257,000	300,000							
Jun-20	50,301	94,506	75,000	30,000		100,756	100,000		349,837	########				########	35,000	7,000	68,000	750,000	500,000	1,000,000	200,000	257,000	300,000							
Jul-20	50,316	94,506	75,000	30,000		100,756	100,000		349,822	########				########	35,000	7,000	68,000	750,000	500,000	1,000,000	200,000	257,000	300,000							
Aug-20	50,351	94,506	75,000	30,000		100,756	100,000		349,857	########				########	35,000	7,000	68,000	750,000	500,000	1,000,000	200,000	257,000	300,000							
Sep-20	50,743	94,506	75,000	30,000		100,756	100,000		350,249	########				########	35,000	7,000	68,000	750,000	500,000	1,000,000	200,000	257,000	300,000							
Oct-20	50,050	57,404	75,000	30,000		50,378	50,000		262,454	########				########	35,000	7,000	68,000	750,000	500,000	1,000,000	200,000	257,000	300,000							
Nov-20	62,006	46,059	75,000	30,000		50,378	50,000		263,065	########				########	35,000	7,000	68,000	200,000	257,000	300,000										
Dec-20	62,216	46,059	75,000	30,000		50,378	50,000		263,275	########				########	35,000	7,000	68,000	200,000	257,000	300,000										
Jan-21	61,849	46,059	75,000	30,000		50,378	50,000		262,938	########				########	35,000	7,000	68,000	500,000	500,000	1,000,000	200,000	257,000	300,000							
Feb-21	61,909	46,059	75,000	30,000		50,378	50,000		262,988	########				########	35,000	7,000	68,000	500,000	500,000	1,000,000	200,000	257,000	300,000							
Mar-21	61,795	43,628	75,000	30,000		50,378	50,000		260,423	########				########	35,000	7,000	68,000	500,000	500,000	1,000,000	200,000	257,000	300,000							
Apr-21	59,131	45,506	75,000	30,000		50,378	50,000		259,637	########				########	35,000	7,000	68,000	500,000	500,000	1,000,000	200,000	257,000	300,000							
May-21	50,303	94,506	75,000	30,000		100,756	100,000		349,837	########				########	35,000	7,000	68,000	500,000			200,000	257,000	300,000							
Jun-21	50,301	94,506	75,000	30,000		100,756	100,000		349,837	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jul-21	50,316	94,506	75,000	30,000		100,756	100,000		349,822	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Aug-21	50,351	94,506	75,000	30,000		100,756	100,000		349,857	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Sep-21	50,743	94,506	75,000	30,000		100,756	100,000		350,249	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Oct-21	50,050	57,404	75,000	30,000		50,378	50,000		262,454	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Nov-21	62,006	46,059	75,000	30,000		50,378	50,000		263,065	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Dec-21	62,216	46,059	75,000	30,000		50,378	50,000		263,275	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jan-22	61,849	46,059	75,000	30,000		50,378	50,000		262,938	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Feb-22	61,909	46,059	75,000	30,000		50,378	50,000		262,988	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Mar-22	61,795	43,628	75,000	30,000		50,378	50,000		260,423	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Apr-22	59,131	45,506	75,000	30,000		50,378	50,000		259,637	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
May-22	50,303	94,506	75,000	30,000		100,756	100,000		349,837	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jun-22	50,301	94,506	75,000	30,000		100,756	100,000		349,837	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jul-22	50,316	94,506	75,000	30,000		100,756	100,000		349,822	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Aug-22	50,351	94,506	75,000	30,000		100,756	100,000		349,857	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Sep-22	50,743	94,506	75,000	30,000		100,756	100,000		350,249	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Oct-22	50,050	57,404	75,000	30,000		50,378	50,000		262,454	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Nov-22	62,006	46,059	75,000	30,000		50,378	50,000		263,065	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Dec-22	62,216	46,059	75,000	30,000		50,378	50,000		263,275	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jan-23	61,849	46,059	75,000	30,000		50,378	50,000		262,938	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Feb-23	61,909	46,059	75,000	30,000		50,378	50,000		262,988	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Mar-23	61,795	43,628	75,000	30,000		50,378	50,000		260,423	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Apr-23	59,131	45,506	75,000	30,000		50,378	50,000		259,637	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
May-23	50,303	94,506	75,000	30,000		100,756	100,000		349,837	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jun-23	50,301	94,506	75,000	30,000		100,756	100,000		349,837	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jul-23	50,316	94,506	75,000	30,000		100,756	100,000		349,822	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Aug-23	50,351	94,506	75,000	30,000		100,756	100,000		349,857	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Sep-23	50,743	94,506	75,000	30,000		100,756	100,000		350,249	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Oct-23	50,050	57,404	75,000	30,000		50,378	50,000		262,454	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Nov-23	62,006	46,059	75,000	30,000		50,378	50,000		263,065	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Dec-23	62,216	46,059	75,000	30,000		50,378	50,000		263,275	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jan-24	61,849	46,059	75,000	30,000		50,378	50,000		262,938	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Feb-24	61,909	46,059	75,000	30,000		50,378	50,000		262,988	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Mar-24	61,795	43,628	75,000	30,000		50,378	50,000		260,423	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Apr-24	59,131	45,506	75,000	30,000		50,378	50,000		259,637	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
May-24	50,303	94,506	75,000	30,000		100,756	100,000		349,837	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jun-24	50,301	94,506	75,000	30,000		100,756	100,000		349,837	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jul-24	50,316	94,506	75,000	30,000		100,756	100,000		349,822	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Aug-24	50,351	94,506	75,000	30,000		100,756	100,000		349,857	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Sep-24	50,743	94,506	75,000	30,000		100,756	100,000		350,249	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Oct-24	50,050	57,404	75,000	30,000		50,378	50,000		262,454	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Nov-24	62,006	46,059	75,000	30,000		50,378	50,000		263,065	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Dec-24	62,216	46,059	75,000	30,000		50,378	50,000		263,275	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jan-25	61,849	46,059	75,000	30,000		50,378	50,000		262,938	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Feb-25	61,909	46,059	75,000	30,000		50,378	50,000		262,988	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Mar-25	61,795	43,628	75,000	30,000		50,378	50,000		260,423	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Apr-25	59,131	45,506	75,000	30,000		50,378	50,000		259,637	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
May-25	50,303	94,506	75,000	30,000		100,756	100,000		349,837	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jun-25	50,301	94,506	75,000	30,000		100,756	100,000		349,837	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jul-25	50,316	94,506	75,000	30,000		100,756	100,000		349,822	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Aug-25	50,351	94,506	75,000	30,000		100,756	100,000		349,857	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Sep-25	50,743	94,506	75,000	30,000		100,756	100,000		350,249	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Oct-25	50,050	57,404	75,000	30,000		50,378	50,000		262,454	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Nov-25	62,006	46,059	75,000	30,000		50,378	50,000		263,065	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Dec-25	62,216	46,059	75,000	30,000		50,378	50,000		263,275	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jan-26	61,849	46,059	75,000	30,000		50,378	50,000		262,938	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Feb-26	61,909	46,059	75,000	30,000		50,378	50,000		262,988	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Mar-26	61,795	43,628	75,000	30,000		50,378	50,000		260,423	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Apr-26	59,131	45,506	75,000	30,000		50,378	50,000		259,637	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
May-26	50,303	94,506	75,000	30,000		100,756	100,000		349,837	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jun-26	50,301	94,506	75,000	30,000		100,756	100,000		349,837	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jul-26	50,316	94,506	75,000	30,000		100,756	100,000		349,822	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Aug-26	50,351	94,506	75,000	30,000		100,756	100,000		349,857	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Sep-26	50,743	94,506	75,000	30,000		100,756	100,000		350,249	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Oct-26	50,050	57,404	75,000	30,000		50,378	50,000		262,454	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Nov-26	62,006	46,059	75,000	30,000		50,378	50,000		263,065	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Dec-26	62,216	46,059	75,000	30,000		50,378	50,000		263,275	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jan-27	61,849	46,059	75,000	30,000		50,378	50,000		262,938	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Feb-27	61,909	46,059	75,000	30,000		50,378	50,000		262,988	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Mar-27	61,795	43,628	75,000	30,000		50,378	50,000		260,423	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Apr-27	59,131	45,506	75,000	30,000		50,378	50,000		259,637	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
May-27	50,303	94,506	75,000	30,000		100,756	100,000		349,837	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jun-27	50,301	94,506	75,000	30,000		100,756	100,000		349,837	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jul-27	50,316	94,506	75,000	30,000		100,756	100,000		349,822	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Aug-27	50,351	94,506	75,000	30,000		100,756	100,000		349,857	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Sep-27	50,743	94,506	75,000	30,000		100,756	100,000		350,249	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Oct-27	50,050	57,404	75,000	30,000		50,378	50,000		262,454	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Nov-27	62,006	46,059	75,000	30,000		50,378	50,000		263,065	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Dec-27	62,216	46,059	75,000	30,000		50,378	50,000		263,275	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jan-28	61,849	46,059	75,000	30,000		50,378	50,000		262,938	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Feb-28	61,909	46,059	75,000	30,000		50,378	50,000		262,988	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Mar-28	61,795	43,628	75,000	30,000		50,378	50,000		260,423	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Apr-28	59,131	45,506	75,000	30,000		50,378	50,000		259,637	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
May-28	50,303	94,506	75,000	30,000		100,756	100,000		349,837	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jun-28	50,301	94,506	75,000	30,000		100,756	100,000		349,837	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Jul-28	50,316	94,506	75,000	30,000		100,756	100,000		349,822	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Aug-28	50,351	94,506	75,000	30,000		100,756	100,000		349,857	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Sep-28	50,743	94,506	75,000	30,000		100,756	100,000		350,249	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Oct-28	50,050	57,404	75,000	30,000		50,378	50,000		262,454	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Nov-28	62,006	46,059	75,000	30,000		50,378	50,000		263,065	########				########	35,000	7,000	68,000				200,000	257,000	300,000							
Dec-28	62,216	46,059	75,000	30,000		50,378	50,000		263,275	########				########	35,000	7,000	68,000				200,000	257,000	300,000							

	FGT FTS-1	FGT FTS-2	FGT FTS-3	FGT FTS-4	PGS	Compress Exp 6NC Cypress Elba LNG	6NC Cypress Phase VII	Elba Bundled Term	SNG FTS	Citrus Phase VI	Citrus Anclote	GulfSt Short Term	GulfSt Short Term	GulfSt Bartow	GulfSt Hines	GulfSt Max Rate	GulfSt Osprey	Sawgrass CTs	SGS FSS Storage	Bay Gas Storage	Bay Gas Storage	8400067 Southern South	Transeric Mobil Bay South	Sabal Trail	Destin South
Jan-19	$1.0000	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	$0.2750	$0.12858	$1.45000	
Feb-19	$1.0000	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	$0.2750	$0.09920	$1.45000	
Mar-19	$1.0000	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	$0.2750	$0.12858	$1.45000	
Apr-19	$1.0000	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	$0.2750	$0.12858	$1.45000	
May-19	$0.6318	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	$0.2750	$0.12858	$1.45000	
Jun-19	$0.6318	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	$0.2750	$0.12858	$1.45000	
Jul-19	$0.6318	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	$0.2750	$0.12858	$1.45000	
Aug-19	$0.6318	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	$0.2750	$0.12858	$1.45000	
Sep-19	$0.6318	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	$0.2750	$0.12858	$1.45000	
Oct-19	$0.6318	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	$0.2750	$0.12858	$1.45000	
Nov-19	$0.6318	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	########	$0.2750	$0.12858	$1.45000	

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	Cypress MMBTU Variable Cost	Cypress Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.046)	$ 3.064	$0.12	3.19
Feb	2019	2.690	$ (0.019)	$ 2.671	$0.12	2.79
Mar	2019	2.950	$ (0.003)	$ 2.947	$0.12	3.07
Apr	2019	2.650	$ (0.001)	$ 2.649	$0.12	2.77
May	2019	2.640	$ 0.005	$ 2.645	$0.12	2.76
Jun	2019	2.400	$ 0.037	$ 2.437	$0.12	2.55
Jul	2019	2.370	$ 0.048	$ 2.418	$0.12	2.53
Aug	2019	2.220	$ 0.056	$ 2.276	$0.11	2.39
Sep	2019	2.560	$ 0.016	$ 2.576	$0.12	2.69
Oct	2019	2.743	$ 0.010	$ 2.753	$0.12	2.87
Nov	2019	2.303	$ 0.012	$ 2.315	$0.11	2.43
Dec	2019	2.495	$ 0.023	$ 2.518	$0.12	2.63
Jan	2020	2.612	$ 0.035	$ 2.647	$0.12	2.77
Feb	2020	2.575	$ 0.024	$ 2.599	$0.12	2.72
Mar	2020	2.462	$ (0.020)	$ 2.442	$0.12	2.56
Apr	2020	2.247	$ (0.019)	$ 2.228	$0.11	2.34
May	2020	2.234	$ 0.005	$ 2.239	$0.11	2.35
Jun	2020	2.278	$ 0.026	$ 2.304	$0.11	2.42
Jul	2020	2.326	$ 0.048	$ 2.374	$0.11	2.49
Aug	2020	2.335	$ 0.055	$ 2.390	$0.11	2.50
Sep	2020	2.318	$ 0.012	$ 2.330	$0.11	2.44
Oct	2020	2.344	$ 0.016	$ 2.360	$0.11	2.47
Nov	2020	2.409	$ 0.025	$ 2.434	$0.12	2.55
Dec	2020	2.578	$ 0.034	$ 2.612	$0.12	2.73
Jan	2021	2.700	$ 0.038	$ 2.738	$0.12	2.86
Feb	2021	2.661	$ 0.033	$ 2.694	$0.12	2.81
Mar	2021	2.548	$ (0.015)	$ 2.533	$0.12	2.65
Apr	2021	2.284	$ (0.021)	$ 2.263	$0.11	2.38
May	2021	2.280	$ 0.005	$ 2.285	$0.11	2.38
Jun	2021	2.294	$ 0.025	$ 2.319	$0.11	2.43
Jul	2021	2.332	$ 0.047	$ 2.379	$0.11	2.49
Aug	2021	2.338	$ 0.058	$ 2.397	$0.11	2.51
Sep	2021	2.328	$ 0.011	$ 2.339	$0.11	2.45
Oct	2021	2.354	$ 0.018	$ 2.372	$0.11	2.49
Nov	2021	2.424	$ 0.027	$ 2.451	$0.12	2.57
Dec	2021	2.603	$ 0.038	$ 2.641	$0.12	2.76
Jan	2022	2.729	$ 0.041	$ 2.770	$0.12	2.89
Feb	2022	2.702	$ 0.036	$ 2.738	$0.12	2.86
Mar	2022	2.595	$ (0.013)	$ 2.582	$0.12	2.70
Apr	2022	2.340	$ (0.016)	$ 2.324	$0.11	2.44
May	2022	2.324	$ 0.007	$ 2.331	$0.11	2.45
Jun	2022	2.359	$ 0.034	$ 2.393	$0.11	2.51
Jul	2022	2.399	$ 0.059	$ 2.458	$0.12	2.57
Aug	2022	2.411	$ 0.066	$ 2.477	$0.12	2.59
Sep	2022	2.404	$ 0.021	$ 2.425	$0.12	2.54
Oct	2022	2.430	$ 0.024	$ 2.454	$0.12	2.57
Nov	2022	2.492	$ 0.034	$ 2.526	$0.12	2.64
Dec	2022	2.674	$ 0.044	$ 2.718	$0.12	2.84
Jan	2023	2.799	$ 0.052	$ 2.851	$0.12	2.97
Feb	2023	2.767	$ 0.047	$ 2.814	$0.12	2.93
Mar	2023	2.656	$ (0.003)	$ 2.653	$0.12	2.77
Apr	2023	2.401	$ (0.008)	$ 2.393	$0.11	2.51
May	2023	2.385	$ 0.016	$ 2.401	$0.11	2.52
Jun	2023	2.426	$ 0.042	$ 2.468	$0.12	2.58
Jul	2023	2.466	$ 0.068	$ 2.534	$0.12	2.65
Aug	2023	2.481	$ 0.076	$ 2.557	$0.12	2.67
Sep	2023	2.476	$ 0.029	$ 2.505	$0.12	2.62
Oct	2023	2.505	$ 0.030	$ 2.535	$0.12	2.65
Nov	2023	2.580	$ 0.037	$ 2.617	$0.12	2.73
Dec	2023	2.760	$ 0.053	$ 2.813	$0.12	2.93
Jan	2024	2.883	$ 0.058	$ 2.941	$0.12	3.06
Feb	2024	2.854	$ 0.050	$ 2.903	$0.12	3.02
Mar	2024	2.742	$ (0.002)	$ 2.740	$0.12	2.86
Apr	2024	2.511	$ (0.007)	$ 2.503	$0.12	2.62
May	2024	2.501	$ 0.017	$ 2.519	$0.12	2.64
Jun	2024	2.537	$ 0.046	$ 2.583	$0.12	2.70
Jul	2024	2.579	$ 0.077	$ 2.656	$0.12	2.77
Aug	2024	2.594	$ 0.077	$ 2.671	$0.12	2.79
Sep	2024	2.590	$ 0.047	$ 2.636	$0.12	2.75
Oct	2024	2.611	$ 0.040	$ 2.651	$0.12	2.77
Nov	2024	2.687	$ 0.044	$ 2.731	$0.12	2.85
Dec	2024	2.860	$ 0.056	$ 2.916	$0.12	3.04
Jan	2025	2.961	$ 0.061	$ 3.022	$0.12	3.15
Feb	2025	2.947	$ 0.055	$ 3.003	$0.12	3.13
Mar	2025	2.864	$ (0.001)	$ 2.863	$0.12	2.98
Apr	2025	2.666	$ (0.011)	$ 2.677	$0.12	2.80
May	2025	2.692	$ 0.016	$ 2.707	$0.12	2.83
Jun	2025	2.727	$ 0.054	$ 2.781	$0.12	2.90
Jul	2025	2.807	$ 0.078	$ 2.886	$0.12	3.01
Aug	2025	2.831	$ 0.078	$ 2.908	$0.12	3.03
Sep	2025	2.739	$ 0.045	$ 2.784	$0.12	2.90
Oct	2025	2.754	$ 0.035	$ 2.789	$0.12	2.91
Nov	2025	2.829	$ 0.036	$ 2.865	$0.12	2.99
Dec	2025	2.987	$ 0.051	$ 3.038	$0.12	3.16
Jan	2026	3.084	$ 0.057	$ 3.140	$0.12	3.26
Feb	2026	3.076	$ 0.053	$ 3.129	$0.12	3.25
Mar	2026	2.994	$ (0.003)	$ 2.991	$0.12	3.11
Apr	2026	2.857	$ (0.001)	$ 2.856	$0.12	2.98
May	2026	2.868	$ 0.022	$ 2.890	$0.12	3.01
Jun	2026	2.914	$ 0.053	$ 2.967	$0.12	3.09
Jul	2026	3.053	$ 0.077	$ 3.130	$0.12	3.25
Aug	2026	3.085	$ 0.078	$ 3.163	$0.12	3.29
Sep	2026	3.022	$ 0.041	$ 3.063	$0.12	3.19
Oct	2026	3.013	$ 0.034	$ 3.047	$0.12	3.17
Nov	2026	3.078	$ 0.042	$ 3.120	$0.12	3.24
Dec	2026	3.243	$ 0.054	$ 3.297	$0.13	3.42
Jan	2027	3.321	$ 0.062	$ 3.383	$0.13	3.51
Feb	2027	3.333	$ 0.057	$ 3.390	$0.13	3.52
Mar	2027	3.278	$ (0.002)	$ 3.276	$0.13	3.40
Apr	2027	3.125	$ (0.002)	$ 3.123	$0.12	3.25
May	2027	3.145	$ 0.021	$ 3.166	$0.12	3.29
Jun	2027	3.207	$ 0.051	$ 3.258	$0.13	3.38
Jul	2027	3.410	$ 0.079	$ 3.489	$0.13	3.62
Aug	2027	3.447	$ 0.082	$ 3.529	$0.13	3.66
Sep	2027	3.434	$ 0.043	$ 3.477	$0.13	3.61
Oct	2027	3.325	$ 0.038	$ 3.364	$0.13	3.49
Nov	2027	3.393	$ 0.043	$ 3.435	$0.13	3.56
Dec	2027	3.568	$ 0.054	$ 3.622	$0.13	3.75
Jan	2028	3.556	$ 0.063	$ 3.618	$0.13	3.75
Feb	2028	3.576	$ 0.047	$ 3.623	$0.13	3.75
Mar	2028	3.501	$ (0.002)	$ 3.498	$0.13	3.63
Apr	2028	3.454	$ (0.006)	$ 3.448	$0.13	3.58
May	2028	3.483	$ 0.024	$ 3.506	$0.13	3.64
Jun	2028	3.644	$ 0.059	$ 3.703	$0.13	3.83
Jul	2028	3.656	$ 0.091	$ 3.747	$0.13	3.88
Aug	2028	3.698	$ 0.089	$ 3.788	$0.13	3.92
Sep	2028	3.748	$ 0.048	$ 3.795	$0.13	3.93
Oct	2028	3.729	$ 0.044	$ 3.772	$0.13	3.90
Nov	2028	3.780	$ 0.046	$ 3.826	$0.13	3.96
Dec	2028	4.008	$ 0.054	$ 4.062	$0.14	4.20
Jan	2029	4.026	$ 0.075	$ 4.102	$0.14	4.24
Feb	2029	4.051	$ 0.068	$ 4.120	$0.14	4.26
Mar	2029	3.866	$ 0.007	$ 3.873	$0.13	4.01
Apr	2029	3.878	$ 0.002	$ 3.880	$0.13	4.01
May	2029	3.934	$ 0.027	$ 3.961	$0.14	4.10
Jun	2029	4.041	$ 0.062	$ 4.102	$0.14	4.24
Jul	2029	3.805	$ 0.091	$ 3.896	$0.13	4.03
Aug	2029	3.833	$ 0.098	$ 3.931	$0.13	4.07
Sep	2029	3.935	$ 0.053	$ 3.988	$0.14	4.12
Oct	2029	3.926	$ 0.040	$ 3.967	$0.14	4.10
Nov	2029	3.843	$ 0.063	$ 3.906	$0.13	4.04
Dec	2029	4.020	$ 0.062	$ 4.083	$0.14	4.22
Jan	2030	4.004	$ 0.075	$ 4.079	$0.14	4.22
Feb	2030	4.029	$ 0.069	$ 4.098	$0.14	4.24
Mar	2030	3.934	$ 0.004	$ 3.937	$0.14	4.07
Apr	2030	3.906	$ (0.008)	$ 3.898	$0.13	4.03
May	2030	3.929	$ 0.029	$ 3.959	$0.14	4.09
Jun	2030	3.994	$ 0.069	$ 4.062	$0.14	4.20
Jul	2030	4.277	$ 0.104	$ 4.380	$0.14	4.52
Aug	2030	4.308	$ 0.113	$ 4.421	$0.14	4.56
Sep	2030	4.245	$ 0.056	$ 4.301	$0.14	4.44
Oct	2030	4.053	$ 0.053	$ 4.106	$0.14	4.24
Nov	2030	3.979	$ 0.056	$ 4.035	$0.14	4.17
Dec	2030	4.172	$ 0.064	$ 4.237	$0.14	4.38
Jan	2031	4.225	$ 0.098	$ 4.322	$0.14	4.46
Feb	2031	4.251	$ 0.092	$ 4.344	$0.14	4.48
Mar	2031	4.167	$ 0.019	$ 4.187	$0.14	4.33
Apr	2031	4.117	$ 0.000	$ 4.132	$0.14	4.27
May	2031	4.158	$ 0.055	$ 4.213	$0.14	4.35
Jun	2031	4.214	$ 0.082	$ 4.296	$0.14	4.44
Jul	2031	4.499	$ 0.116	$ 4.615	$0.14	4.76
Aug	2031	4.544	$ 0.139	$ 4.683	$0.14	4.83
Sep	2031	4.460	$ 0.086	$ 4.546	$0.14	4.69
Oct	2031	4.191	$ 0.082	$ 4.403	$0.14	4.54
Nov	2031	4.381	$ 0.066	$ 4.447	$0.14	4.59
Dec	2031	4.533	$ 0.082	$ 4.615	$0.14	4.76
Jan	2032	4.448	$ 0.106	$ 4.554	$0.14	4.70
Feb	2032	4.472	$ 0.077	$ 4.549	$0.14	4.69
Mar	2032	4.455	$ 0.050	$ 4.504	$0.14	4.65
Apr	2032	4.318	$ 0.026	$ 4.344	$0.14	4.48
May	2032	4.342	$ 0.069	$ 4.411	$0.14	4.55
Jun	2032	4.369	$ 0.095	$ 4.464	$0.14	4.61
Jul	2032	4.491	$ 0.136	$ 4.628	$0.14	4.77
Aug	2032	4.530	$ 0.159	$ 4.689	$0.14	4.83
Sep	2032	4.464	$ 0.091	$ 4.555	$0.14	4.70
Oct	2032	4.435	$ 0.088	$ 4.524	$0.14	4.67
Nov	2032	4.539	$ 0.053	$ 4.592	$0.14	4.74
Dec	2032	4.550	$ 0.072	$ 4.622	$0.14	4.77
Jan	2033	4.352	$ 0.093	$ 4.444	$0.14	4.57
Feb	2033	4.361	$ 0.091	$ 4.452	$0.14	4.59
Mar	2033	4.319	$ 0.022	$ 4.340	$0.14	4.48
Apr	2033	4.317	$ 0.016	$ 4.333	$0.14	4.47
May	2033	4.345	$ 0.032	$ 4.377	$0.14	4.52
Jun	2033	4.376	$ 0.080	$ 4.456	$0.14	4.60
Jul	2033	4.510	$ 0.119	$ 4.629	$0.14	4.77
Aug	2033	4.549	$ 0.127	$ 4.677	$0.14	4.82
Sep	2033	4.490	$ 0.068	$ 4.558	$0.14	4.70
Oct	2033	4.448	$ 0.053	$ 4.501	$0.14	4.64
Nov	2033	4.579	$ 0.033	$ 4.612	$0.14	4.76
Dec	2033	4.739	$ 0.047	$ 4.787	$0.15	4.93
Jan	2034	4.726	$ 0.080	$ 4.806	$0.15	4.95
Feb	2034	4.595	$ 0.056	$ 4.645	$0.14	4.79
Mar	2034	4.457	$ (0.008)	$ 4.450	$0.14	4.59
Apr	2034	4.404	$ 0.009	$ 4.413	$0.14	4.55
May	2034	4.433	$ 0.039	$ 4.472	$0.14	4.61
Jun	2034	4.462	$ 0.084	$ 4.546	$0.14	4.69
Jul	2034	4.676	$ 0.125	$ 4.801	$0.15	4.95
Aug	2034	4.712	$ 0.144	$ 4.856	$0.15	5.00
Sep	2034	4.623	$ 0.074	$ 4.697	$0.14	4.84
Oct	2034	4.509	$ 0.049	$ 4.558	$0.14	4.70
Nov	2034	4.704	$ 0.034	$ 4.738	$0.15	4.88
Dec	2034	4.869	$ 0.055	$ 4.924	$0.15	5.07
Jan	2035	4.897	$ 0.086	$ 4.983	$0.15	5.13
Feb	2035	4.922	$ 0.065	$ 4.987	$0.15	5.14
Mar	2035	4.772	$ 0.018	$ 4.791	$0.15	4.94
Apr	2035	4.557	$ 0.023	$ 4.580	$0.14	4.72
May	2035	4.585	$ 0.046	$ 4.632	$0.14	4.78
Jun	2035	4.615	$ 0.091	$ 4.706	$0.15	4.85
Jul	2035	4.853	$ 0.130	$ 4.983	$0.15	5.13
Aug	2035	4.884	$ 0.147	$ 5.031	$0.15	5.18
Sep	2035	4.807	$ 0.075	$ 4.877	$0.15	5.02
Oct	2035	4.679	$ 0.048	$ 4.727	$0.15	4.87
Nov	2035	4.719	$ 0.033	$ 4.752	$0.15	4.90
Dec	2035	4.965	$ 0.058	$ 4.908	$0.15	5.06
Jan	2036	4.798	$ 0.093	$ 4.891	$0.15	5.04
Feb	2036	4.819	$ 0.034	$ 4.853	$0.15	5.00
Mar	2036	4.758	$ 0.020	$ 4.758	$0.15	4.90
Apr	2036	4.553	$ 0.023	$ 4.575	$0.14	4.72
May	2036	4.581	$ 0.049	$ 4.631	$0.14	4.78
Jun	2036	4.615	$ 0.096	$ 4.711	$0.15	4.86
Jul	2036	4.751	$ 0.135	$ 4.886	$0.15	5.03
Aug	2036	4.785	$ 0.150	$ 4.935	$0.15	5.08
Sep	2036	4.762	$ 0.089	$ 4.851	$0.15	5.00
Oct	2036	4.730	$ 0.076	$ 4.806	$0.15	4.95
Nov	2036	4.794	$ 0.051	$ 4.845	$0.15	4.99
Dec	2036	5.013	$ 0.064	$ 5.077	$0.15	5.23
Jan	2037	5.030	$ 0.105	$ 5.135	$0.15	5.29
Feb	2037	5.061	$ 0.081	$ 5.143	$0.15	5.29
Mar	2037	4.986	$ 0.024	$ 5.011	$0.15	5.16
Apr	2037	4.842	$ 0.021	$ 4.863	$0.15	5.01
May	2037	4.872	$ 0.055	$ 4.927	$0.15	5.07
Jun	2037	4.921	$ 0.111	$ 5.032	$0.15	5.18
Jul	2037	5.132	$ 0.147	$ 5.279	$0.15	5.43
Aug	2037	5.166	$ 0.147	$ 5.312	$0.15	5.47
Sep	2037	5.085	$ 0.096	$ 5.190	$0.15	5.34
Oct	2037	5.039	$ 0.074	$ 5.113	$0.15	5.26
Nov	2037	5.103	$ 0.052	$ 5.155	$0.15	5.31
Dec	2037	5.316	$ 0.078	$ 5.394	$0.15	5.55
Jan	2038	5.338	$ 0.111	$ 5.449	$0.15	5.60
Feb	2038	5.371	$ 0.088	$ 5.459	$0.15	5.61
Mar	2038	5.288	$ 0.026	$ 5.314	$0.15	5.47
Apr	2038	5.108	$ 0.044	$ 5.152	$0.15	5.30
May	2038	5.139	$ 0.060	$ 5.199	$0.15	5.35
Jun	2038	5.176	$ 0.118	$ 5.294	$0.15	5.45
Jul	2038	5.323	$ 0.152	$ 5.475	$0.16	5.63
Aug	2038	5.361	$ 0.145	$ 5.506	$0.16	5.66
Sep	2038	5.240	$ 0.104	$ 5.344	$0.15	5.50
Oct	2038	5.187	$ 0.064	$ 5.251	$0.15	5.40
Nov	2038	5.273	$ 0.073	$ 5.347	$0.15	5.50
Dec	2038	5.462	$ 0.100	$ 5.562	$0.16	5.72
Jan	2039	5.479	$ 0.119	$ 5.598	$0.16	5.75
Feb	2039	5.513	$ 0.101	$ 5.614	$0.16	5.77
Mar	2039	5.381	$ 0.032	$ 5.413	$0.15	5.57
Apr	2039	5.036	$ 0.041	$ 5.077	$0.15	5.23
May	2039	5.065	$ 0.052	$ 5.117	$0.15	5.27
Jun	2039	5.097	$ 0.115	$ 5.212	$0.15	5.36
Jul	2039	5.149	$ 0.129	$ 5.277	$0.15	5.43
Aug	2039	5.594	$ 0.145	$ 5.740	$0.16	5.90
Sep	2039	5.570	$ 0.088	$ 5.658	$0.16	5.82
Oct	2039	5.363	$ 0.081	$ 5.444	$0.16	5.60
Nov	2039	5.454	$ 0.063	$ 5.487	$0.16	5.64
Dec	2039	5.590	$ 0.087	$ 5.677	$0.16	5.83
Jan	2040	5.550	$ 0.098	$ 5.648	$0.16	5.81
Feb	2040	5.479	$ 0.061	$ 5.540	$0.16	5.80
Mar	2040	5.488	$ 0.033	$ 5.521	$0.16	5.68
Apr	2040	5.306	$ 0.013	$ 5.320	$0.15	5.47
May	2040	5.337	$ 0.058	$ 5.395	$0.15	5.55
Jun	2040	5.383	$ 0.108	$ 5.490	$0.16	5.65
Jul	2040	5.580	$ 0.144	$ 5.724	$0.16	5.88
Aug	2040	5.614	$ 0.155	$ 5.768	$0.16	5.93
Sep	2040	5.602	$ 0.098	$ 5.701	$0.16	5.86
Oct	2040	5.477	$ 0.066	$ 5.543	$0.16	5.72
Nov	2040	5.535	$ 0.069	$ 5.604	$0.16	5.76
Dec	2040	5.782	$ 0.111	$ 5.836	$0.16	6.00
Jan	2041	5.766	$ 0.113	$ 5.879	$0.16	6.04
Feb	2041	5.788	$ 0.083	$ 5.871	$0.16	6.03
Mar	2041	5.665	$ 0.037	$ 5.702	$0.16	5.86
Apr	2041	5.459	$ 0.048	$ 5.506	$0.16	5.66
May	2041	5.492	$ 0.061	$ 5.553	$0.16	5.71
Jun	2041	5.551	$ 0.124	$ 5.674	$0.16	5.83
Jul	2041	5.794	$ 0.166	$ 5.961	$0.16	6.12
Aug	2041	5.829	$ 0.158	$ 5.987	$0.16	6.15
Sep	2041	5.731	$ 0.116	$ 5.847	$0.16	6.11
Oct	2041	5.639	$ 0.061	$ 5.700	$0.16	5.86
Nov	2041	5.743	$ 0.077	$ 5.820	$0.16	5.98
Dec	2041	5.904	$ 0.127	$ 6.033	$0.16	6.20
Jan	2042	5.890	$ 0.120	$ 6.010	$0.16	6.17
Feb	2042	5.914	$ 0.089	$ 6.003	$0.16	6.17
Mar	2042	5.789	$ 0.033	$ 5.822	$0.16	5.98
Apr	2042	5.627	$ 0.045	$ 5.672	$0.16	5.83
May	2042	5.662	$ 0.063	$ 5.725	$0.16	5.88
Jun	2042	5.717	$ 0.134	$ 5.851	$0.16	6.01
Jul	2042	6.009	$ 0.168	$ 6.176	$0.16	6.34
Aug	2042	6.046	$ 0.171	$ 6.217	$0.16	6.38
Sep	2042	6.026	$ 0.120	$ 6.147	$0.16	6.31
Oct	2042	5.920	$ 0.080	$ 5.900	$0.16	6.06
Nov	2042	5.852	$ 0.075	$ 5.927	$0.16	6.09
Dec	2042	6.027	$ 0.102	$ 6.139	$0.16	6.30
Jan	2043	6.007	$ 0.105	$ 6.112	$0.16	6.28
Feb	2043	6.026	$ 0.058	$ 6.085	$0.16	6.25
Mar	2043	5.909	$ 0.035	$ 5.944	$0.16	6.11
Apr	2043	5.704	$ 0.028	$ 5.732	$0.16	5.89
May	2043	5.739	$ 0.050	$ 5.789	$0.16	5.95
Jun	2043	5.782	$ 0.106	$ 5.888	$0.16	6.05
Jul	2043	6.064	$ 0.164	$ 6.229	$0.17	6.39
Aug	2043	6.101	$ 0.156	$ 6.257	$0.17	6.42
Sep	2043	6.120	$ 0.091	$ 6.211	$0.16	6.38
Oct	2043	5.997	$ 0.077	$ 5.969	$0.16	6.13
Nov	2043	5.943	$ 0.066	$ 6.010	$0.16	6.17
Dec	2043	6.136	$ 0.097	$ 6.233	$0.17	6.40
Jan	2044	6.193	$ 0.059	$ 6.251	$0.17	6.42
Feb	2044	6.179	$ 0.059	$ 6.238	$0.17	6.40
Mar	2044	6.050	$ 0.025	$ 6.075	$0.16	6.24
Apr	2044	5.974	$ 0.029	$ 5.968	$0.16	6.13
May	2044	5.974	$ 0.040	$ 6.013	$0.16	6.18
Jun	2044	6.010	$ 0.105	$ 6.115	$0.16	6.28
Jul	2044	6.286	$ 0.160	$ 6.446	$0.17	6.61
Aug	2044	6.324	$ 0.152	$ 6.486	$0.17	6.65
Sep	2044	6.312	$ 0.080	$ 6.393	$0.17	6.56
Oct	2044	6.153	$ 0.045	$ 6.198	$0.16	6.36
Nov	2044	6.248	$ 0.060	$ 6.308	$0.17	6.47
Dec	2044	6.442	$ 0.099	$ 6.541	$0.17	6.71
Jan	2045	6.424	$ 0.107	$ 6.531	$0.17	6.70
Feb	2045	6.462	$ 0.056	$ 6.518	$0.17	6.69
Mar	2045	6.358	$ 0.031	$ 6.390	$0.17	6.56
Apr	2045	6.212	$ 0.026	$ 6.238	$0.17	6.40
May	2045	6.245	$ 0.042	$ 6.287	$0.17	6.45
Jun	2045	6.283	$ 0.109	$ 6.393	$0.17	6.56
Jul	2045	6.574	$ 0.157	$ 6.731	$0.17	6.90
Aug	2045	6.615	$ 0.169	$ 6.784	$0.17	6.96
Sep	2045	6.627	$ 0.085	$ 6.711	$0.17	6.88
Oct	2045	6.430	$ 0.062	$ 6.492	$0.17	6.66
Nov	2045	6.474	$ 0.062	$ 6.536	$0.17	6.77
Dec	2045	6.728	$ 0.096	$ 6.824	$0.17	7.00
Jan	2046	6.739	$ 0.115	$ 6.854	$0.17	7.03
Feb	2046	6.760	$ 0.062	$ 6.821	$0.17	6.99
Mar	2046	6.602	$ 0.022	$ 6.624	$0.17	6.79
Apr	2046	6.418	$ 0.018	$ 6.436	$0.17	6.60
May	2046	6.446	$ 0.043	$ 6.489	$0.17	6.66
Jun	2046	6.484	$ 0.110	$ 6.594	$0.17	6.76
Jul	2046	6.815	$ 0.158	$ 6.973	$0.17	7.15
Aug	2046	6.858	$ 0.176	$ 7.034	$0.18	7.21
Sep	2046	6.836	$ 0.081	$ 6.917	$0.17	7.09
Oct	2046	6.620	$ 0.062	$ 6.682	$0.17	6.85
Nov	2046	6.680	$ 0.064	$ 6.745	$0.17	6.92
Dec	2046	6.855	$ 0.103	$ 6.959	$0.17	7.13
Jan	2047	6.873	$ 0.126	$ 6.999	$0.18	7.17
Feb	2047	6.885	$ 0.058	$ 6.943	$0.17	7.12
Mar	2047	6.640	$ 0.019	$ 6.659	$0.17	6.83
Apr	2047	6.485	$ 0.022	$ 6.507	$0.17	6.68
May	2047	6.511	$ 0.039	$ 6.550	$0.17	6.72
Jun	2047	6.549	$ 0.123	$ 6.673	$0.17	6.84
Jul	2047	6.870	$ 0.165	$ 7.035	$0.18	7.21
Aug	2047	6.913	$ 0.182	$ 7.096	$0.18	7.27
Sep	2047	6.910	$ 0.088	$ 6.998	$0.18	7.17
Oct	2047	6.787	$ 0.052	$ 6.839	$0.17	7.01
Nov	2047	6.847	$ 0.052	$ 6.899	$0.17	7.07
Dec	2047	6.974	$ 0.093	$ 6.967	$0.17	7.14
Jan	2048	6.803	$ 0.109	$ 6.912	$0.17	7.09
Feb	2048	6.836	$ 0.036	$ 6.872	$0.17	7.05
Mar	2048	6.683	$ 0.007	$ 6.689	$0.17	6.86
Apr	2048	6.585	$ 0.022	$ 6.607	$0.17	6.78
May	2048	6.622	$ 0.032	$ 6.655	$0.17	6.83
Jun	2048	6.691	$ 0.099	$ 6.790	$0.17	6.96

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	FGT MMBTU Variable Cost	FGT Variable MMBTU Delivered Costs
Jan	2019	3.116	$ (0.046)	$ 3.064	$0.13	3.19
Feb	2019	2.690	$ (0.019)	$ 2.671	$0.12	2.79
Mar	2019	2.960	$ (0.003)	$ 2.947	$0.12	3.07
Apr	2019	2.650	$ (0.001)	$ 2.649	$0.11	2.76
May	2019	2.640	$ 0.005	$ 2.645	$0.11	2.76
Jun	2019	2.400	$ 0.037	$ 2.437	$0.11	2.55
Jul	2019	2.370	$ 0.048	$ 2.418	$0.11	2.53
Aug	2019	2.220	$ 0.056	$ 2.276	$0.11	2.38
Sep	2019	2.560	$ 0.016	$ 2.576	$0.11	2.69
Oct	2019	2.743	$ 0.010	$ 2.753	$0.12	2.87
Nov	2019	2.303	$ 0.012	$ 2.315	$0.11	2.42
Dec	2019	2.495	$ 0.023	$ 2.518	$0.11	2.63
Jan	2020	2.612	$ 0.035	$ 2.647	$0.11	2.76
Feb	2020	2.575	$ 0.024	$ 2.599	$0.11	2.71
Mar	2020	2.462	$ (0.020)	$ 2.442	$0.11	2.55
Apr	2020	2.247	$ (0.019)	$ 2.228	$0.10	2.33
May	2020	2.234	$ 0.005	$ 2.239	$0.10	2.34
Jun	2020	2.278	$ 0.026	$ 2.304	$0.11	2.41
Jul	2020	2.326	$ 0.048	$ 2.374	$0.11	2.48
Aug	2020	2.335	$ 0.055	$ 2.390	$0.11	2.50
Sep	2020	2.318	$ 0.012	$ 2.330	$0.11	2.44
Oct	2020	2.344	$ 0.016	$ 2.360	$0.11	2.47
Nov	2020	2.400	$ 0.025	$ 2.434	$0.11	2.54
Dec	2020	2.578	$ 0.034	$ 2.612	$0.11	2.73
Jan	2021	2.700	$ 0.038	$ 2.738	$0.12	2.86
Feb	2021	2.661	$ 0.033	$ 2.694	$0.12	2.81
Mar	2021	2.548	$ (0.015)	$ 2.533	$0.11	2.64
Apr	2021	2.284	$ (0.021)	$ 2.263	$0.11	2.37
May	2021	2.360	$ 0.005	$ 2.265	$0.11	2.37
Jun	2021	2.294	$ 0.025	$ 2.319	$0.11	2.43
Jul	2021	2.332	$ 0.047	$ 2.379	$0.11	2.49
Aug	2021	2.339	$ 0.058	$ 2.397	$0.11	2.51
Sep	2021	2.328	$ 0.011	$ 2.339	$0.11	2.45
Oct	2021	2.354	$ 0.018	$ 2.372	$0.11	2.48
Nov	2021	2.424	$ 0.027	$ 2.451	$0.11	2.56
Dec	2021	2.603	$ 0.038	$ 2.641	$0.11	2.76
Jan	2022	2.729	$ 0.041	$ 2.770	$0.12	2.89
Feb	2022	2.702	$ 0.036	$ 2.738	$0.12	2.86
Mar	2022	2.595	$ (0.013)	$ 2.582	$0.11	2.70
Apr	2022	2.340	$ (0.016)	$ 2.324	$0.11	2.43
May	2022	2.324	$ 0.007	$ 2.331	$0.11	2.44
Jun	2022	2.359	$ 0.034	$ 2.393	$0.11	2.50
Jul	2022	2.399	$ 0.059	$ 2.458	$0.11	2.57
Aug	2022	2.411	$ 0.066	$ 2.477	$0.11	2.59
Sep	2022	2.404	$ 0.021	$ 2.425	$0.11	2.53
Oct	2022	2.430	$ 0.024	$ 2.454	$0.11	2.56
Nov	2022	2.492	$ 0.034	$ 2.526	$0.11	2.64
Dec	2022	2.674	$ 0.044	$ 2.718	$0.12	2.83
Jan	2023	2.799	$ 0.052	$ 2.851	$0.12	2.97
Feb	2023	2.767	$ 0.047	$ 2.814	$0.12	2.93
Mar	2023	2.650	$ 0.0033	$ 2.653	$0.11	2.77
Apr	2023	2.401	$ (0.008)	$ 2.393	$0.11	2.50
May	2023	2.385	$ 0.016	$ 2.401	$0.11	2.51
Jun	2023	2.434	$ 0.042	$ 2.468	$0.11	2.58
Jul	2023	2.466	$ 0.068	$ 2.534	$0.11	2.65
Aug	2023	2.481	$ 0.076	$ 2.557	$0.11	2.67
Sep	2023	2.474	$ 0.029	$ 2.505	$0.11	2.62
Oct	2023	2.505	$ 0.030	$ 2.535	$0.11	2.65
Nov	2023	2.580	$ 0.037	$ 2.617	$0.11	2.73
Dec	2023	2.760	$ 0.053	$ 2.813	$0.12	2.93
Jan	2024	2.883	$ 0.058	$ 2.941	$0.12	3.06
Feb	2024	2.854	$ 0.050	$ 2.903	$0.12	3.02
Mar	2024	2.742	$ (0.002)	$ 2.740	$0.12	2.86
Apr	2024	2.511	$ (0.007)	$ 2.503	$0.11	2.61
May	2024	2.501	$ 0.017	$ 2.519	$0.11	2.63
Jun	2024	2.517	$ 0.046	$ 2.563	$0.11	2.70
Jul	2024	2.579	$ 0.077	$ 2.656	$0.12	2.77
Aug	2024	2.594	$ 0.077	$ 2.671	$0.12	2.79
Sep	2024	2.590	$ 0.047	$ 2.636	$0.11	2.75
Oct	2024	2.811	$ 0.040	$ 2.851	$0.11	2.77
Nov	2024	2.687	$ 0.044	$ 2.731	$0.12	2.85
Dec	2024	2.860	$ 0.056	$ 2.916	$0.12	3.04
Jan	2025	2.961	$ 0.061	$ 3.022	$0.12	3.15
Feb	2025	2.947	$ 0.053	$ 3.003	$0.12	3.13
Mar	2025	2.864	$ (0.001)	$ 2.863	$0.12	2.98
Apr	2025	2.666	$ (0.011)	$ 2.677	$0.12	2.79
May	2025	2.662	$ 0.016	$ 2.707	$0.12	2.82
Jun	2025	2.727	$ 0.054	$ 2.781	$0.12	2.90
Jul	2025	2.807	$ 0.078	$ 2.886	$0.12	3.01
Aug	2025	2.831	$ 0.078	$ 2.908	$0.12	3.03
Sep	2025	2.739	$ 0.045	$ 2.784	$0.12	2.90
Oct	2025	2.754	$ 0.035	$ 2.789	$0.12	2.91
Nov	2025	2.829	$ 0.036	$ 2.865	$0.12	2.99
Dec	2025	2.987	$ 0.051	$ 3.038	$0.12	3.16
Jan	2026	3.084	$ 0.057	$ 3.140	$0.13	3.27
Feb	2026	3.076	$ 0.053	$ 3.129	$0.13	3.26
Mar	2026	2.994	$ (0.003)	$ 2.991	$0.12	3.11
Apr	2026	2.857	$ (0.001)	$ 2.856	$0.12	2.98
May	2026	2.868	$ 0.022	$ 2.890	$0.12	3.01
Jun	2026	2.914	$ 0.053	$ 2.967	$0.12	3.09
Jul	2026	3.053	$ 0.077	$ 3.130	$0.13	3.26
Aug	2026	3.085	$ 0.078	$ 3.163	$0.13	3.29
Sep	2026	3.022	$ 0.041	$ 3.063	$0.13	3.19
Oct	2026	3.013	$ 0.034	$ 3.047	$0.12	3.17
Nov	2026	3.078	$ 0.042	$ 3.120	$0.13	3.25
Dec	2026	3.243	$ 0.054	$ 3.297	$0.13	3.43
Jan	2027	3.321	$ 0.062	$ 3.383	$0.13	3.52
Feb	2027	3.293	$ 0.057	$ 3.350	$0.13	3.52
Mar	2027	3.278	$ (0.002)	$ 3.276	$0.13	3.41
Apr	2027	3.125	$ (0.002)	$ 3.123	$0.13	3.25
May	2027	3.145	$ 0.021	$ 3.166	$0.13	3.29
Jun	2027	3.207	$ 0.051	$ 3.258	$0.13	3.39
Jul	2027	3.410	$ 0.079	$ 3.489	$0.14	3.62
Aug	2027	3.447	$ 0.082	$ 3.529	$0.14	3.67
Sep	2027	3.434	$ 0.043	$ 3.477	$0.14	3.61
Oct	2027	3.325	$ 0.038	$ 3.364	$0.13	3.50
Nov	2027	3.393	$ 0.043	$ 3.435	$0.13	3.57
Dec	2027	3.568	$ 0.054	$ 3.622	$0.14	3.76
Jan	2028	3.556	$ 0.063	$ 3.618	$0.14	3.76
Feb	2028	3.576	$ 0.047	$ 3.623	$0.14	3.76
Mar	2028	3.501	$ (0.002)	$ 3.498	$0.14	3.63
Apr	2028	3.454	$ (0.006)	$ 3.448	$0.13	3.58
May	2028	3.483	$ 0.024	$ 3.506	$0.14	3.64
Jun	2028	3.644	$ 0.059	$ 3.703	$0.14	3.84
Jul	2028	3.656	$ 0.091	$ 3.747	$0.14	3.89
Aug	2028	3.699	$ 0.089	$ 3.788	$0.14	3.93
Sep	2028	3.748	$ 0.048	$ 3.795	$0.14	3.94
Oct	2028	3.729	$ 0.044	$ 3.772	$0.14	3.91
Nov	2028	3.780	$ 0.046	$ 3.826	$0.14	3.97
Dec	2028	4.008	$ 0.054	$ 4.062	$0.15	4.21
Jan	2029	4.026	$ 0.075	$ 4.102	$0.15	4.25
Feb	2029	4.051	$ 0.068	$ 4.120	$0.15	4.27
Mar	2029	3.866	$ 0.007	$ 3.873	$0.15	4.02
Apr	2029	3.878	$ 0.002	$ 3.880	$0.15	4.03
May	2029	3.934	$ 0.027	$ 3.961	$0.15	4.11
Jun	2029	4.041	$ 0.062	$ 4.102	$0.15	4.25
Jul	2029	3.805	$ 0.091	$ 3.896	$0.15	4.04
Aug	2029	3.833	$ 0.098	$ 3.931	$0.15	4.08
Sep	2029	3.935	$ 0.053	$ 3.988	$0.15	4.14
Oct	2029	3.926	$ 0.040	$ 3.967	$0.15	4.11
Nov	2029	3.843	$ 0.063	$ 3.906	$0.15	4.05
Dec	2029	4.008	$ 0.062	$ 4.083	$0.15	4.23
Jan	2030	4.004	$ 0.075	$ 4.079	$0.15	4.23
Feb	2030	4.029	$ 0.069	$ 4.098	$0.15	4.25
Mar	2030	3.934	$ 0.004	$ 3.937	$0.15	4.08
Apr	2030	3.906	$ (0.008)	$ 3.898	$0.15	4.04
May	2030	3.929	$ 0.029	$ 3.959	$0.15	4.11
Jun	2030	3.964	$ 0.089	$ 4.052	$0.15	4.21
Jul	2030	4.277	$ 0.104	$ 4.380	$0.16	4.54
Aug	2030	4.308	$ 0.113	$ 4.421	$0.16	4.58
Sep	2030	4.245	$ 0.056	$ 4.301	$0.16	4.46
Oct	2030	4.053	$ 0.053	$ 4.106	$0.15	4.26
Nov	2030	3.979	$ 0.056	$ 4.035	$0.15	4.18
Dec	2030	4.172	$ 0.064	$ 4.237	$0.15	4.39
Jan	2031	4.225	$ 0.098	$ 4.322	$0.16	4.48
Feb	2031	4.251	$ 0.092	$ 4.344	$0.16	4.50
Mar	2031	4.167	$ 0.019	$ 4.187	$0.15	4.34
Apr	2031	4.117	$ 0.000	$ 4.132	$0.15	4.28
May	2031	4.158	$ 0.055	$ 4.213	$0.15	4.37
Jun	2031	4.214	$ 0.082	$ 4.296	$0.16	4.45
Jul	2031	4.499	$ 0.116	$ 4.615	$0.16	4.78
Aug	2031	4.544	$ 0.139	$ 4.683	$0.17	4.85
Sep	2031	4.460	$ 0.086	$ 4.546	$0.16	4.71
Oct	2031	4.321	$ 0.082	$ 4.403	$0.16	4.56
Nov	2031	4.381	$ 0.066	$ 4.447	$0.16	4.61
Dec	2031	4.533	$ 0.082	$ 4.615	$0.16	4.78
Jan	2032	4.448	$ 0.106	$ 4.554	$0.16	4.72
Feb	2032	4.472	$ 0.077	$ 4.549	$0.16	4.71
Mar	2032	4.455	$ 0.050	$ 4.504	$0.16	4.67
Apr	2032	4.318	$ 0.026	$ 4.344	$0.16	4.50
May	2032	4.342	$ 0.069	$ 4.411	$0.16	4.57
Jun	2032	4.369	$ 0.095	$ 4.464	$0.16	4.62
Jul	2032	4.491	$ 0.136	$ 4.628	$0.16	4.79
Aug	2032	4.530	$ 0.159	$ 4.689	$0.17	4.85
Sep	2032	4.464	$ 0.091	$ 4.555	$0.16	4.72
Oct	2032	4.435	$ 0.089	$ 4.524	$0.16	4.69
Nov	2032	4.539	$ 0.053	$ 4.592	$0.16	4.76
Dec	2032	4.550	$ 0.072	$ 4.622	$0.16	4.79
Jan	2033	4.332	$ 0.093	$ 4.424	$0.16	4.58
Feb	2033	4.361	$ 0.091	$ 4.452	$0.16	4.61
Mar	2033	4.319	$ 0.022	$ 4.340	$0.16	4.50
Apr	2033	4.317	$ 0.016	$ 4.333	$0.16	4.49
May	2033	4.345	$ 0.032	$ 4.377	$0.16	4.54
Jun	2033	4.376	$ 0.080	$ 4.456	$0.16	4.62
Jul	2033	4.510	$ 0.119	$ 4.629	$0.16	4.79
Aug	2033	4.549	$ 0.127	$ 4.677	$0.17	4.84
Sep	2033	4.490	$ 0.068	$ 4.558	$0.16	4.72
Oct	2033	4.448	$ 0.053	$ 4.501	$0.16	4.66
Nov	2033	4.579	$ 0.033	$ 4.612	$0.16	4.78
Dec	2033	4.739	$ 0.047	$ 4.787	$0.17	4.96
Jan	2034	4.726	$ 0.080	$ 4.806	$0.17	4.97
Feb	2034	4.590	$ 0.056	$ 4.645	$0.16	4.81
Mar	2034	4.457	$ (0.008)	$ 4.450	$0.16	4.61
Apr	2034	4.404	$ 0.009	$ 4.413	$0.16	4.57
May	2034	4.433	$ 0.039	$ 4.472	$0.16	4.63
Jun	2034	4.462	$ 0.084	$ 4.546	$0.16	4.71
Jul	2034	4.676	$ 0.125	$ 4.801	$0.17	4.97
Aug	2034	4.712	$ 0.144	$ 4.856	$0.17	5.03
Sep	2034	4.623	$ 0.074	$ 4.697	$0.17	4.86
Oct	2034	4.509	$ 0.049	$ 4.558	$0.16	4.72
Nov	2034	4.704	$ 0.034	$ 4.738	$0.17	4.91
Dec	2034	4.869	$ 0.055	$ 4.924	$0.17	5.10
Jan	2035	4.897	$ 0.086	$ 4.983	$0.17	5.16
Feb	2035	4.922	$ 0.065	$ 4.987	$0.17	5.16
Mar	2035	4.772	$ 0.018	$ 4.791	$0.17	4.96
Apr	2035	4.557	$ 0.023	$ 4.580	$0.16	4.74
May	2035	4.585	$ 0.046	$ 4.632	$0.16	4.80
Jun	2035	4.615	$ 0.091	$ 4.706	$0.17	4.87
Jul	2035	4.853	$ 0.130	$ 4.983	$0.17	5.16
Aug	2035	4.884	$ 0.147	$ 5.031	$0.17	5.21
Sep	2035	4.867	$ 0.075	$ 4.877	$0.17	5.05
Oct	2035	4.679	$ 0.048	$ 4.727	$0.17	4.89
Nov	2035	4.719	$ 0.033	$ 4.752	$0.17	4.92
Dec	2035	4.850	$ 0.058	$ 4.908	$0.17	5.08
Jan	2036	4.798	$ 0.093	$ 4.891	$0.17	5.06
Feb	2036	4.819	$ 0.034	$ 4.853	$0.17	5.02
Mar	2036	4.738	$ 0.020	$ 4.758	$0.17	4.93
Apr	2036	4.553	$ 0.023	$ 4.575	$0.16	4.74
May	2036	4.581	$ 0.049	$ 4.631	$0.16	4.80
Jun	2036	4.615	$ 0.096	$ 4.711	$0.17	4.88
Jul	2036	4.751	$ 0.135	$ 4.886	$0.17	5.06
Aug	2036	4.785	$ 0.150	$ 4.935	$0.17	5.11
Sep	2036	4.762	$ 0.089	$ 4.851	$0.17	5.02
Oct	2036	4.730	$ 0.076	$ 4.806	$0.17	4.97
Nov	2036	4.794	$ 0.051	$ 4.845	$0.17	5.01
Dec	2036	5.013	$ 0.064	$ 5.077	$0.18	5.25
Jan	2037	5.030	$ 0.105	$ 5.135	$0.18	5.31
Feb	2037	5.061	$ 0.081	$ 5.143	$0.18	5.32
Mar	2037	4.986	$ 0.024	$ 5.011	$0.17	5.18
Apr	2037	4.842	$ 0.021	$ 4.863	$0.17	5.03
May	2037	4.872	$ 0.055	$ 4.927	$0.17	5.10
Jun	2037	4.921	$ 0.111	$ 5.032	$0.17	5.21
Jul	2037	5.119	$ 0.147	$ 5.279	$0.18	5.46
Aug	2037	5.166	$ 0.147	$ 5.312	$0.18	5.49
Sep	2037	5.095	$ 0.096	$ 5.190	$0.18	5.37
Oct	2037	5.039	$ 0.074	$ 5.113	$0.18	5.29
Nov	2037	5.103	$ 0.052	$ 5.155	$0.18	5.33
Dec	2037	5.316	$ 0.078	$ 5.394	$0.18	5.58
Jan	2038	5.338	$ 0.111	$ 5.449	$0.18	5.63
Feb	2038	5.371	$ 0.088	$ 5.459	$0.19	5.64
Mar	2038	5.288	$ 0.026	$ 5.314	$0.18	5.50
Apr	2038	5.196	$ 0.044	$ 5.152	$0.18	5.33
May	2038	5.139	$ 0.060	$ 5.199	$0.18	5.38
Jun	2038	5.176	$ 0.118	$ 5.294	$0.18	5.48
Jul	2038	5.323	$ 0.152	$ 5.475	$0.19	5.66
Aug	2038	5.361	$ 0.145	$ 5.506	$0.19	5.69
Sep	2038	5.240	$ 0.104	$ 5.344	$0.18	5.53
Oct	2038	5.187	$ 0.064	$ 5.251	$0.18	5.43
Nov	2038	5.273	$ 0.073	$ 5.347	$0.18	5.53
Dec	2038	5.462	$ 0.100	$ 5.562	$0.19	5.75
Jan	2039	5.479	$ 0.119	$ 5.598	$0.19	5.79
Feb	2039	5.513	$ 0.101	$ 5.614	$0.19	5.80
Mar	2039	5.381	$ 0.032	$ 5.413	$0.18	5.60
Apr	2039	5.036	$ 0.041	$ 5.077	$0.18	5.25
May	2039	5.065	$ 0.052	$ 5.117	$0.18	5.29
Jun	2039	5.097	$ 0.115	$ 5.212	$0.18	5.39
Jul	2039	5.149	$ 0.129	$ 5.277	$0.18	5.46
Aug	2039	5.594	$ 0.145	$ 5.740	$0.19	5.93
Sep	2039	5.570	$ 0.088	$ 5.658	$0.19	5.85
Oct	2039	5.363	$ 0.081	$ 5.444	$0.18	5.63
Nov	2039	5.424	$ 0.063	$ 5.487	$0.19	5.67
Dec	2039	5.590	$ 0.087	$ 5.677	$0.19	5.87
Jan	2040	5.550	$ 0.098	$ 5.648	$0.19	5.84
Feb	2040	5.579	$ 0.061	$ 5.640	$0.19	5.83
Mar	2040	5.488	$ 0.033	$ 5.521	$0.19	5.71
Apr	2040	5.306	$ 0.013	$ 5.320	$0.18	5.50
May	2040	5.337	$ 0.058	$ 5.395	$0.18	5.58
Jun	2040	5.383	$ 0.108	$ 5.490	$0.19	5.68
Jul	2040	5.580	$ 0.144	$ 5.724	$0.19	5.92
Aug	2040	5.614	$ 0.155	$ 5.768	$0.19	5.96
Sep	2040	5.602	$ 0.098	$ 5.701	$0.19	5.89
Oct	2040	5.477	$ 0.085	$ 5.563	$0.19	5.75
Nov	2040	5.535	$ 0.069	$ 5.604	$0.19	5.79
Dec	2040	5.724	$ 0.111	$ 5.836	$0.19	6.03
Jan	2041	5.766	$ 0.113	$ 5.879	$0.20	6.07
Feb	2041	5.788	$ 0.083	$ 5.871	$0.20	6.07
Mar	2041	5.665	$ 0.037	$ 5.702	$0.19	5.89
Apr	2041	5.459	$ 0.048	$ 5.506	$0.19	5.69
May	2041	5.492	$ 0.061	$ 5.553	$0.19	5.74
Jun	2041	5.551	$ 0.124	$ 5.674	$0.19	5.86
Jul	2041	5.794	$ 0.186	$ 5.981	$0.20	6.16
Aug	2041	5.829	$ 0.158	$ 5.987	$0.20	6.19
Sep	2041	5.831	$ 0.116	$ 5.947	$0.20	6.14
Oct	2041	5.639	$ 0.061	$ 5.700	$0.19	5.89
Nov	2041	5.743	$ 0.077	$ 5.820	$0.19	6.01
Dec	2041	5.906	$ 0.127	$ 6.033	$0.20	6.23
Jan	2042	5.880	$ 0.120	$ 6.010	$0.20	6.21
Feb	2042	5.914	$ 0.089	$ 6.003	$0.20	6.20
Mar	2042	5.789	$ 0.033	$ 5.822	$0.19	6.02
Apr	2042	5.627	$ 0.045	$ 5.672	$0.19	5.86
May	2042	5.662	$ 0.063	$ 5.725	$0.19	5.92
Jun	2042	5.717	$ 0.134	$ 5.851	$0.19	6.05
Jul	2042	6.009	$ 0.168	$ 6.176	$0.20	6.38
Aug	2042	6.046	$ 0.171	$ 6.217	$0.20	6.42
Sep	2042	6.026	$ 0.120	$ 6.147	$0.20	6.35
Oct	2042	5.920	$ 0.080	$ 5.900	$0.20	6.10
Nov	2042	5.852	$ 0.075	$ 5.927	$0.20	6.12
Dec	2042	6.037	$ 0.102	$ 6.139	$0.20	6.34
Jan	2043	6.007	$ 0.105	$ 6.112	$0.20	6.31
Feb	2043	6.026	$ 0.059	$ 6.085	$0.20	6.29
Mar	2043	5.909	$ 0.035	$ 5.944	$0.20	6.14
Apr	2043	5.704	$ 0.028	$ 5.732	$0.19	5.92
May	2043	5.739	$ 0.050	$ 5.789	$0.19	5.98
Jun	2043	5.782	$ 0.106	$ 5.888	$0.20	6.08
Jul	2043	6.064	$ 0.164	$ 6.229	$0.20	6.43
Aug	2043	6.101	$ 0.156	$ 6.257	$0.21	6.46
Sep	2043	6.120	$ 0.091	$ 6.211	$0.20	6.41
Oct	2043	5.969	$ 0.077	$ 5.969	$0.20	6.17
Nov	2043	5.943	$ 0.068	$ 6.010	$0.20	6.21
Dec	2043	6.136	$ 0.097	$ 6.233	$0.20	6.44
Jan	2044	6.152	$ 0.099	$ 6.251	$0.20	6.46
Feb	2044	6.179	$ 0.059	$ 6.238	$0.20	6.44
Mar	2044	6.050	$ 0.025	$ 6.075	$0.20	6.28
Apr	2044	5.970	$ 0.029	$ 5.998	$0.20	6.17
May	2044	5.974	$ 0.040	$ 6.013	$0.20	6.21
Jun	2044	6.010	$ 0.105	$ 6.115	$0.20	6.32
Jul	2044	6.286	$ 0.160	$ 6.446	$0.21	6.66
Aug	2044	6.324	$ 0.162	$ 6.486	$0.21	6.70
Sep	2044	6.312	$ 0.080	$ 6.393	$0.21	6.60
Oct	2044	6.153	$ 0.045	$ 6.198	$0.20	6.40
Nov	2044	6.248	$ 0.060	$ 6.308	$0.21	6.51
Dec	2044	6.442	$ 0.099	$ 6.541	$0.21	6.75
Jan	2045	6.424	$ 0.107	$ 6.531	$0.21	6.74
Feb	2045	6.462	$ 0.056	$ 6.518	$0.21	6.73
Mar	2045	6.358	$ 0.031	$ 6.390	$0.21	6.60
Apr	2045	6.212	$ 0.026	$ 6.238	$0.20	6.44
May	2045	6.245	$ 0.042	$ 6.287	$0.21	6.49
Jun	2045	6.283	$ 0.109	$ 6.393	$0.21	6.60
Jul	2045	6.574	$ 0.157	$ 6.731	$0.22	6.95
Aug	2045	6.615	$ 0.169	$ 6.784	$0.22	7.00
Sep	2045	6.627	$ 0.085	$ 6.711	$0.22	6.93
Oct	2045	6.430	$ 0.062	$ 6.492	$0.21	6.70
Nov	2045	6.474	$ 0.062	$ 6.596	$0.21	6.81
Dec	2045	6.728	$ 0.096	$ 6.824	$0.22	7.04
Jan	2046	6.739	$ 0.115	$ 6.854	$0.22	7.07
Feb	2046	6.760	$ 0.062	$ 6.821	$0.22	7.04
Mar	2046	6.602	$ 0.022	$ 6.624	$0.21	6.84
Apr	2046	6.418	$ 0.018	$ 6.436	$0.21	6.65
May	2046	6.446	$ 0.043	$ 6.489	$0.21	6.70
Jun	2046	6.484	$ 0.110	$ 6.594	$0.21	6.81
Jul	2046	6.815	$ 0.158	$ 6.973	$0.22	7.20
Aug	2046	6.858	$ 0.176	$ 7.034	$0.22	7.26
Sep	2046	6.836	$ 0.081	$ 6.917	$0.22	7.14
Oct	2046	6.620	$ 0.062	$ 6.682	$0.22	6.90
Nov	2046	6.680	$ 0.064	$ 6.745	$0.22	6.96
Dec	2046	6.855	$ 0.103	$ 6.959	$0.22	7.18
Jan	2047	6.873	$ 0.126	$ 6.999	$0.22	7.22
Feb	2047	6.885	$ 0.058	$ 6.943	$0.22	7.17
Mar	2047	6.640	$ 0.019	$ 6.659	$0.22	6.87
Apr	2047	6.485	$ 0.022	$ 6.507	$0.21	6.72
May	2047	6.511	$ 0.039	$ 6.550	$0.21	6.76
Jun	2047	6.549	$ 0.123	$ 6.673	$0.22	6.89
Jul	2047	6.870	$ 0.165	$ 7.035	$0.22	7.26
Aug	2047	6.913	$ 0.182	$ 7.096	$0.23	7.32
Sep	2047	6.910	$ 0.088	$ 6.998	$0.22	7.22
Oct	2047	6.787	$ 0.052	$ 6.839	$0.22	7.06
Nov	2047	6.847	$ 0.052	$ 6.899	$0.22	7.12
Dec	2047	6.974	$ 0.093	$ 6.967	$0.22	7.19
Jan	2048	6.803	$ 0.109	$ 6.912	$0.22	7.13
Feb	2048	6.836	$ 0.036	$ 6.872	$0.22	7.09
Mar	2048	6.687	$ 0.007	$ 6.689	$0.22	6.90
Apr	2048	6.585	$ 0.022	$ 6.607	$0.21	6.82
May	2048	6.622	$ 0.032	$ 6.655	$0.22	6.87
Jun	2048	6.691	$ 0.099	$ 6.790	$0.22	7.01
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DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	FGT MMBTU Variable Cost	FGT Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.046)	$ 3.064	$1.05	4.12
Feb	2019	2.690	$ (0.019)	$ 2.671	$1.04	3.72
Mar	2019	2.950	$ (0.003)	$ 2.947	$1.05	4.00
Apr	2019	2.650	$ (0.001)	$ 2.649	$1.04	3.69
May	2019	2.640	$ 0.005	$ 2.645	$1.04	3.69
Jun	2019	2.400	$ 0.037	$ 2.437	$1.04	3.48
Jul	2019	2.370	$ 0.048	$ 2.418	$1.04	3.46
Aug	2019	2.220	$ 0.056	$ 2.276	$1.03	3.31
Sep	2019	2.560	$ 0.016	$ 2.576	$1.04	3.62
Oct	2019	2.743	$ 0.010	$ 2.753	$1.05	3.80
Nov	2019	2.303	$ 0.012	$ 2.315	$1.04	3.35
Dec	2019	2.495	$ 0.023	$ 2.518	$1.04	3.56
Jan	2020	2.612	$ 0.035	$ 2.647	$1.04	3.69
Feb	2020	2.575	$ 0.024	$ 2.599	$1.04	3.64
Mar	2020	2.462	$ (0.020)	$ 2.442	$1.04	3.48
Apr	2020	2.247	$ (0.019)	$ 2.228	$1.03	3.26
May	2020	2.234	$ 0.005	$ 2.239	$1.03	3.27
Jun	2020	2.278	$ 0.026	$ 2.304	$1.04	3.34
Jul	2020	2.326	$ 0.048	$ 2.374	$1.04	3.41
Aug	2020	2.335	$ 0.055	$ 2.390	$1.04	3.43
Sep	2020	2.318	$ 0.012	$ 2.330	$1.04	3.37
Oct	2020	2.344	$ 0.016	$ 2.360	$1.04	3.40
Nov	2020	2.409	$ 0.025	$ 2.434	$1.04	3.47
Dec	2020	2.578	$ 0.034	$ 2.612	$1.04	3.65
Jan	2021	2.700	$ 0.038	$ 2.738	$1.05	3.78
Feb	2021	2.661	$ 0.033	$ 2.694	$1.04	3.74
Mar	2021	2.548	$ (0.015)	$ 2.533	$1.04	3.57
Apr	2021	2.284	$ (0.021)	$ 2.263	$1.03	3.30
May	2021	2.260	$ 0.005	$ 2.265	$1.03	3.30
Jun	2021	2.294	$ 0.025	$ 2.319	$1.04	3.35
Jul	2021	2.332	$ 0.047	$ 2.379	$1.04	3.42
Aug	2021	2.339	$ 0.058	$ 2.397	$1.04	3.43
Sep	2021	2.328	$ 0.011	$ 2.339	$1.04	3.37
Oct	2021	2.354	$ 0.018	$ 2.372	$1.04	3.41
Nov	2021	2.424	$ 0.027	$ 2.451	$1.04	3.49
Dec	2021	2.603	$ 0.038	$ 2.641	$1.04	3.68
Jan	2022	2.729	$ 0.041	$ 2.770	$1.05	3.82
Feb	2022	2.702	$ 0.036	$ 2.738	$1.05	3.78
Mar	2022	2.595	$ (0.013)	$ 2.582	$1.04	3.62
Apr	2022	2.340	$ (0.016)	$ 2.324	$1.04	3.36
May	2022	2.324	$ 0.007	$ 2.331	$1.04	3.37
Jun	2022	2.359	$ 0.034	$ 2.393	$1.04	3.43
Jul	2022	2.399	$ 0.059	$ 2.458	$1.04	3.50
Aug	2022	2.411	$ 0.066	$ 2.477	$1.04	3.52
Sep	2022	2.404	$ 0.021	$ 2.425	$1.04	3.46
Oct	2022	2.430	$ 0.024	$ 2.454	$1.04	3.49
Nov	2022	2.497	$ 0.034	$ 2.526	$1.04	3.57
Dec	2022	2.674	$ 0.044	$ 2.718	$1.05	3.76
Jan	2023	2.799	$ 0.052	$ 2.851	$1.05	3.90
Feb	2023	2.767	$ 0.047	$ 2.814	$1.05	3.86
Mar	2023	2.656	$ (0.003)	$ 2.653	$1.04	3.70
Apr	2023	2.401	$ (0.008)	$ 2.393	$1.04	3.43
May	2023	2.385	$ 0.016	$ 2.401	$1.04	3.44
Jun	2023	2.426	$ 0.042	$ 2.468	$1.04	3.51
Jul	2023	2.466	$ 0.068	$ 2.534	$1.04	3.57
Aug	2023	2.481	$ 0.076	$ 2.557	$1.04	3.60
Sep	2023	2.476	$ 0.029	$ 2.505	$1.04	3.55
Oct	2023	2.505	$ 0.030	$ 2.535	$1.04	3.58
Nov	2023	2.580	$ 0.037	$ 2.617	$1.04	3.66
Dec	2023	2.760	$ 0.053	$ 2.813	$1.05	3.86
Jan	2024	2.883	$ 0.058	$ 2.941	$1.05	3.99
Feb	2024	2.854	$ 0.050	$ 2.903	$1.05	3.95
Mar	2024	2.742	$ (0.002)	$ 2.740	$1.05	3.79
Apr	2024	2.511	$ (0.007)	$ 2.503	$1.04	3.54
May	2024	2.501	$ 0.017	$ 2.519	$1.04	3.56
Jun	2024	2.537	$ 0.046	$ 2.583	$1.04	3.63
Jul	2024	2.579	$ 0.077	$ 2.656	$1.04	3.70
Aug	2024	2.594	$ 0.077	$ 2.671	$1.04	3.72
Sep	2024	2.591	$ 0.047	$ 2.638	$1.04	3.68
Oct	2024	2.811	$ 0.040	$ 2.851	$1.04	3.69
Nov	2024	2.687	$ 0.044	$ 2.731	$1.05	3.78
Dec	2024	2.860	$ 0.056	$ 2.916	$1.05	3.97
Jan	2025	2.961	$ 0.061	$ 3.022	$1.05	4.08
Feb	2025	2.947	$ 0.055	$ 3.003	$1.05	4.06
Mar	2025	2.864	$ (0.001)	$ 2.863	$1.05	3.91
Apr	2025	2.688	$ (0.011)	$ 2.677	$1.04	3.72
May	2025	2.692	$ 0.016	$ 2.707	$1.05	3.75
Jun	2025	2.727	$ 0.054	$ 2.781	$1.05	3.83
Jul	2025	2.807	$ 0.078	$ 2.886	$1.05	3.94
Aug	2025	2.831	$ 0.078	$ 2.908	$1.05	3.96
Sep	2025	2.739	$ 0.045	$ 2.784	$1.05	3.83
Oct	2025	2.754	$ 0.035	$ 2.789	$1.05	3.84
Nov	2025	2.829	$ 0.036	$ 2.865	$1.05	3.91
Dec	2025	2.987	$ 0.051	$ 3.038	$1.05	4.09
Jan	2026	3.084	$ 0.057	$ 3.140	$1.06	4.20
Feb	2026	3.076	$ 0.053	$ 3.129	$1.06	4.18
Mar	2026	2.994	$ (0.003)	$ 2.991	$1.05	4.04
Apr	2026	2.857	$ (0.001)	$ 2.856	$1.05	3.90
May	2026	2.868	$ 0.022	$ 2.890	$1.05	3.94
Jun	2026	2.914	$ 0.053	$ 2.967	$1.05	4.02
Jul	2026	3.053	$ 0.077	$ 3.130	$1.06	4.19
Aug	2026	3.085	$ 0.078	$ 3.163	$1.06	4.22
Sep	2026	3.022	$ 0.041	$ 3.063	$1.05	4.12
Oct	2026	3.019	$ 0.034	$ 3.047	$1.05	4.10
Nov	2026	3.078	$ 0.042	$ 3.120	$1.06	4.18
Dec	2026	3.243	$ 0.054	$ 3.297	$1.06	4.36
Jan	2027	3.321	$ 0.062	$ 3.383	$1.06	4.45
Feb	2027	3.333	$ 0.057	$ 3.390	$1.06	4.45
Mar	2027	3.278	$ (0.002)	$ 3.276	$1.06	4.34
Apr	2027	3.194	$ (0.002)	$ 3.123	$1.06	4.18
May	2027	3.145	$ 0.021	$ 3.166	$1.06	4.22
Jun	2027	3.207	$ 0.051	$ 3.258	$1.06	4.32
Jul	2027	3.410	$ 0.079	$ 3.489	$1.06	4.55
Aug	2027	3.447	$ 0.082	$ 3.529	$1.07	4.59
Sep	2027	3.434	$ 0.043	$ 3.477	$1.06	4.54
Oct	2027	3.325	$ 0.038	$ 3.364	$1.06	4.43
Nov	2027	3.392	$ 0.043	$ 3.435	$1.06	4.50
Dec	2027	3.568	$ 0.054	$ 3.622	$1.07	4.69
Jan	2028	3.556	$ 0.063	$ 3.618	$1.07	4.69
Feb	2028	3.576	$ 0.047	$ 3.623	$1.07	4.69
Mar	2028	3.501	$ (0.002)	$ 3.498	$1.06	4.56
Apr	2028	3.454	$ (0.006)	$ 3.448	$1.06	4.51
May	2028	3.483	$ 0.024	$ 3.506	$1.07	4.57
Jun	2028	3.644	$ 0.059	$ 3.703	$1.07	4.77
Jul	2028	3.656	$ 0.091	$ 3.747	$1.07	4.82
Aug	2028	3.698	$ 0.089	$ 3.788	$1.07	4.86
Sep	2028	3.748	$ 0.048	$ 3.795	$1.07	4.87
Oct	2028	3.729	$ 0.044	$ 3.772	$1.07	4.84
Nov	2028	3.780	$ 0.046	$ 3.826	$1.07	4.90
Dec	2028	4.008	$ 0.054	$ 4.062	$1.08	5.14
Jan	2029	4.026	$ 0.075	$ 4.102	$1.08	5.18
Feb	2029	4.051	$ 0.068	$ 4.120	$1.08	5.20
Mar	2029	3.886	$ (0.013)	$ 3.873	$1.07	4.95
Apr	2029	3.878	$ 0.002	$ 3.880	$1.07	4.95
May	2029	3.934	$ 0.027	$ 3.961	$1.08	5.04
Jun	2029	4.041	$ 0.062	$ 4.102	$1.08	5.18
Jul	2029	3.805	$ 0.091	$ 3.896	$1.07	4.97
Aug	2029	3.823	$ 0.098	$ 3.921	$1.08	5.01
Sep	2029	3.935	$ 0.053	$ 3.988	$1.08	5.07
Oct	2029	3.926	$ 0.040	$ 3.967	$1.08	5.04
Nov	2029	3.843	$ 0.063	$ 3.906	$1.08	4.98
Dec	2029	4.020	$ 0.062	$ 4.083	$1.08	5.16
Jan	2030	4.004	$ 0.075	$ 4.079	$1.08	5.16
Feb	2030	4.029	$ 0.059	$ 4.088	$1.08	5.18
Mar	2030	3.934	$ 0.004	$ 3.937	$1.08	5.01
Apr	2030	3.906	$ (0.008)	$ 3.898	$1.07	4.97
May	2030	3.929	$ 0.029	$ 3.959	$1.08	5.04
Jun	2030	3.994	$ 0.069	$ 4.062	$1.08	5.14
Jul	2030	4.277	$ 0.104	$ 4.380	$1.09	5.47
Aug	2030	4.308	$ 0.113	$ 4.421	$1.09	5.51
Sep	2030	4.245	$ 0.056	$ 4.301	$1.09	5.39
Oct	2030	4.053	$ 0.053	$ 4.106	$1.08	5.19
Nov	2030	3.979	$ 0.056	$ 4.035	$1.08	5.11
Dec	2030	4.177	$ 0.064	$ 4.237	$1.08	5.32
Jan	2031	4.225	$ 0.098	$ 4.322	$1.09	5.41
Feb	2031	4.251	$ 0.092	$ 4.344	$1.09	5.43
Mar	2031	4.167	$ 0.019	$ 4.187	$1.08	5.27
Apr	2031	4.132	$ 0.000	$ 4.132	$1.08	5.21
May	2031	4.158	$ 0.055	$ 4.213	$1.08	5.30
Jun	2031	4.214	$ 0.082	$ 4.296	$1.08	5.38
Jul	2031	4.499	$ 0.116	$ 4.615	$1.09	5.71
Aug	2031	4.544	$ 0.139	$ 4.683	$1.09	5.78
Sep	2031	4.460	$ 0.086	$ 4.546	$1.09	5.64
Oct	2031	4.321	$ 0.082	$ 4.403	$1.09	5.49
Nov	2031	4.381	$ 0.066	$ 4.447	$1.09	5.54
Dec	2031	4.515	$ 0.082	$ 4.615	$1.09	5.71
Jan	2032	4.448	$ 0.106	$ 4.554	$1.09	5.65
Feb	2032	4.472	$ 0.077	$ 4.549	$1.09	5.64
Mar	2032	4.455	$ 0.050	$ 4.504	$1.09	5.59
Apr	2032	4.318	$ 0.026	$ 4.344	$1.09	5.43
May	2032	4.342	$ 0.069	$ 4.411	$1.09	5.50
Jun	2032	4.369	$ 0.095	$ 4.464	$1.09	5.55
Jul	2032	4.491	$ 0.136	$ 4.628	$1.09	5.72
Aug	2032	4.530	$ 0.159	$ 4.689	$1.09	5.78
Sep	2032	4.464	$ 0.091	$ 4.555	$1.09	5.65
Oct	2032	4.435	$ 0.088	$ 4.524	$1.09	5.61
Nov	2032	4.539	$ 0.053	$ 4.592	$1.09	5.68
Dec	2032	4.550	$ 0.072	$ 4.622	$1.09	5.72
Jan	2033	4.197	$ 0.093	$ 4.424	$1.09	5.51
Feb	2033	4.361	$ 0.091	$ 4.452	$1.09	5.54
Mar	2033	4.319	$ 0.022	$ 4.340	$1.09	5.43
Apr	2033	4.117	$ 0.016	$ 4.133	$1.09	5.42
May	2033	4.345	$ 0.032	$ 4.377	$1.09	5.46
Jun	2033	4.376	$ 0.080	$ 4.456	$1.09	5.54
Jul	2033	4.510	$ 0.119	$ 4.629	$1.09	5.72
Aug	2033	4.549	$ 0.127	$ 4.677	$1.09	5.77
Sep	2033	4.490	$ 0.068	$ 4.558	$1.09	5.65
Oct	2033	4.448	$ 0.053	$ 4.501	$1.09	5.59
Nov	2033	4.579	$ 0.033	$ 4.612	$1.09	5.70
Dec	2033	4.739	$ 0.047	$ 4.787	$1.10	5.88
Jan	2034	4.726	$ 0.080	$ 4.806	$1.10	5.90
Feb	2034	4.590	$ 0.056	$ 4.645	$1.09	5.74
Mar	2034	4.457	$ (0.008)	$ 4.450	$1.09	5.54
Apr	2034	4.404	$ 0.009	$ 4.413	$1.09	5.50
May	2034	4.433	$ 0.039	$ 4.472	$1.09	5.56
Jun	2034	4.462	$ 0.084	$ 4.546	$1.09	5.64
Jul	2034	4.676	$ 0.125	$ 4.801	$1.10	5.90
Aug	2034	4.712	$ 0.144	$ 4.856	$1.10	5.95
Sep	2034	4.623	$ 0.074	$ 4.697	$1.09	5.79
Oct	2034	4.509	$ 0.049	$ 4.558	$1.09	5.65
Nov	2034	4.704	$ 0.034	$ 4.738	$1.10	5.83
Dec	2034	4.869	$ 0.055	$ 4.924	$1.10	6.02
Jan	2035	4.897	$ 0.086	$ 4.983	$1.10	6.09
Feb	2035	4.877	$ 0.065	$ 4.987	$1.10	6.09
Mar	2035	4.772	$ 0.018	$ 4.791	$1.10	5.89
Apr	2035	4.557	$ 0.023	$ 4.580	$1.09	5.67
May	2035	4.586	$ 0.046	$ 4.632	$1.09	5.73
Jun	2035	4.615	$ 0.091	$ 4.706	$1.10	5.80
Jul	2035	4.853	$ 0.130	$ 4.983	$1.10	6.09
Aug	2035	4.894	$ 0.147	$ 5.031	$1.10	6.13
Sep	2035	4.802	$ 0.075	$ 4.877	$1.10	5.98
Oct	2035	4.679	$ 0.048	$ 4.727	$1.10	5.82
Nov	2035	4.719	$ 0.033	$ 4.752	$1.10	5.85
Dec	2035	4.850	$ 0.058	$ 4.908	$1.10	6.01
Jan	2036	4.798	$ 0.093	$ 4.891	$1.10	5.99
Feb	2036	4.819	$ 0.034	$ 4.853	$1.10	5.95
Mar	2036	4.738	$ 0.020	$ 4.758	$1.10	5.85
Apr	2036	4.553	$ 0.023	$ 4.575	$1.09	5.67
May	2036	4.581	$ 0.049	$ 4.631	$1.09	5.72
Jun	2036	4.615	$ 0.096	$ 4.711	$1.10	5.81
Jul	2036	4.751	$ 0.135	$ 4.886	$1.10	5.99
Aug	2036	4.785	$ 0.150	$ 4.935	$1.10	6.04
Sep	2036	4.762	$ 0.089	$ 4.851	$1.10	5.95
Oct	2036	4.730	$ 0.076	$ 4.806	$1.10	5.90
Nov	2036	4.794	$ 0.051	$ 4.845	$1.10	5.94
Dec	2036	5.013	$ 0.064	$ 5.077	$1.10	6.18
Jan	2037	5.030	$ 0.105	$ 5.135	$1.11	6.24
Feb	2037	5.061	$ 0.081	$ 5.143	$1.11	6.25
Mar	2037	4.986	$ 0.024	$ 5.011	$1.10	6.11
Apr	2037	4.842	$ 0.021	$ 4.863	$1.10	5.96
May	2037	4.872	$ 0.055	$ 4.927	$1.10	6.03
Jun	2037	4.931	$ 0.111	$ 5.032	$1.10	6.14
Jul	2037	5.132	$ 0.147	$ 5.279	$1.11	6.39
Aug	2037	5.166	$ 0.147	$ 5.312	$1.11	6.42
Sep	2037	5.094	$ 0.096	$ 5.190	$1.11	6.30
Oct	2037	5.039	$ 0.074	$ 5.113	$1.11	6.22
Nov	2037	5.103	$ 0.052	$ 5.155	$1.11	6.26
Dec	2037	5.316	$ 0.078	$ 5.394	$1.11	6.51
Jan	2038	5.338	$ 0.111	$ 5.449	$1.11	6.56
Feb	2038	5.371	$ 0.088	$ 5.459	$1.11	6.57
Mar	2038	5.288	$ 0.026	$ 5.314	$1.11	6.42
Apr	2038	5.108	$ 0.044	$ 5.152	$1.11	6.26
May	2038	5.139	$ 0.060	$ 5.199	$1.11	6.31
Jun	2038	5.176	$ 0.118	$ 5.294	$1.11	6.40
Jul	2038	5.323	$ 0.152	$ 5.475	$1.11	6.59
Aug	2038	5.361	$ 0.145	$ 5.506	$1.12	6.62
Sep	2038	5.240	$ 0.104	$ 5.344	$1.11	6.46
Oct	2038	5.187	$ 0.064	$ 5.251	$1.11	6.36
Nov	2038	5.273	$ 0.073	$ 5.347	$1.11	6.46
Dec	2038	5.462	$ 0.100	$ 5.562	$1.12	6.68
Jan	2039	5.479	$ 0.119	$ 5.598	$1.12	6.72
Feb	2039	5.513	$ 0.101	$ 5.614	$1.12	6.73
Mar	2039	5.381	$ 0.032	$ 5.413	$1.11	6.53
Apr	2039	5.038	$ 0.041	$ 5.077	$1.10	6.18
May	2039	5.065	$ 0.052	$ 5.117	$1.11	6.22
Jun	2039	5.097	$ 0.115	$ 5.212	$1.11	6.32
Jul	2039	5.148	$ 0.129	$ 5.277	$1.11	6.39
Aug	2039	5.594	$ 0.145	$ 5.740	$1.12	6.86
Sep	2039	5.570	$ 0.098	$ 5.668	$1.12	6.78
Oct	2039	5.363	$ 0.081	$ 5.444	$1.11	6.56
Nov	2039	5.424	$ 0.063	$ 5.487	$1.11	6.60
Dec	2039	5.590	$ 0.087	$ 5.677	$1.12	6.80
Jan	2040	5.550	$ 0.098	$ 5.648	$1.12	6.77
Feb	2040	5.579	$ 0.061	$ 5.640	$1.12	6.76
Mar	2040	5.488	$ 0.033	$ 5.521	$1.12	6.64
Apr	2040	5.306	$ 0.013	$ 5.320	$1.11	6.43
May	2040	5.337	$ 0.058	$ 5.395	$1.11	6.51
Jun	2040	5.383	$ 0.108	$ 5.490	$1.11	6.60
Jul	2040	5.580	$ 0.144	$ 5.724	$1.12	6.84
Aug	2040	5.614	$ 0.155	$ 5.768	$1.12	6.89
Sep	2040	5.602	$ 0.098	$ 5.701	$1.12	6.82
Oct	2040	5.477	$ 0.086	$ 5.563	$1.12	6.68
Nov	2040	5.535	$ 0.099	$ 5.634	$1.12	6.72
Dec	2040	5.724	$ 0.111	$ 5.836	$1.12	6.96
Jan	2041	5.766	$ 0.113	$ 5.879	$1.12	7.00
Feb	2041	5.788	$ 0.083	$ 5.871	$1.12	7.00
Mar	2041	5.665	$ 0.037	$ 5.702	$1.12	6.82
Apr	2041	5.459	$ 0.048	$ 5.506	$1.12	6.62
May	2041	5.469	$ 0.061	$ 5.553	$1.12	6.67
Jun	2041	5.551	$ 0.124	$ 5.674	$1.12	6.79
Jul	2041	5.794	$ 0.166	$ 5.961	$1.13	7.09
Aug	2041	5.829	$ 0.158	$ 5.987	$1.13	7.11
Sep	2041	5.831	$ 0.116	$ 5.947	$1.13	7.07
Oct	2041	5.639	$ 0.061	$ 5.700	$1.12	6.82
Nov	2041	5.749	$ 0.077	$ 5.826	$1.12	6.94
Dec	2041	5.905	$ 0.127	$ 6.033	$1.13	7.16
Jan	2042	5.890	$ 0.120	$ 6.010	$1.13	7.14
Feb	2042	5.914	$ 0.089	$ 6.003	$1.13	7.13
Mar	2042	5.789	$ 0.033	$ 5.822	$1.12	6.95
Apr	2042	5.627	$ 0.045	$ 5.672	$1.12	6.79
May	2042	5.662	$ 0.063	$ 5.725	$1.12	6.85
Jun	2042	5.717	$ 0.134	$ 5.851	$1.12	6.97
Jul	2042	6.009	$ 0.168	$ 6.176	$1.13	7.31
Aug	2042	6.046	$ 0.171	$ 6.217	$1.13	7.35
Sep	2042	6.026	$ 0.120	$ 6.147	$1.13	7.28
Oct	2042	5.820	$ 0.080	$ 5.900	$1.13	7.03
Nov	2042	5.852	$ 0.075	$ 5.927	$1.13	7.05
Dec	2042	6.037	$ 0.102	$ 6.139	$1.13	7.27
Jan	2043	6.007	$ 0.105	$ 6.112	$1.13	7.24
Feb	2043	6.026	$ 0.058	$ 6.085	$1.13	7.21
Mar	2043	5.909	$ 0.035	$ 5.944	$1.13	7.07
Apr	2043	5.704	$ 0.028	$ 5.732	$1.12	6.85
May	2043	5.739	$ 0.050	$ 5.789	$1.12	6.91
Jun	2043	5.787	$ 0.106	$ 5.888	$1.12	7.01
Jul	2043	6.064	$ 0.164	$ 6.229	$1.13	7.36
Aug	2043	6.101	$ 0.156	$ 6.257	$1.13	7.39
Sep	2043	6.170	$ 0.091	$ 6.211	$1.13	7.34
Oct	2043	5.892	$ 0.077	$ 5.969	$1.13	7.10
Nov	2043	5.943	$ 0.066	$ 6.010	$1.13	7.14
Dec	2043	6.196	$ 0.037	$ 6.233	$1.13	7.37
Jan	2044	6.152	$ 0.099	$ 6.251	$1.13	7.38
Feb	2044	6.179	$ 0.059	$ 6.238	$1.13	7.37
Mar	2044	6.050	$ 0.025	$ 6.075	$1.13	7.20
Apr	2044	5.939	$ 0.029	$ 5.968	$1.13	7.09
May	2044	5.974	$ 0.040	$ 6.013	$1.13	7.14
Jun	2044	6.010	$ 0.105	$ 6.115	$1.13	7.25
Jul	2044	6.285	$ 0.160	$ 6.446	$1.14	7.58
Aug	2044	6.324	$ 0.162	$ 6.486	$1.14	7.63
Sep	2044	6.312	$ 0.080	$ 6.393	$1.14	7.53
Oct	2044	6.153	$ 0.045	$ 6.198	$1.13	7.33
Nov	2044	6.248	$ 0.060	$ 6.308	$1.14	7.44
Dec	2044	6.442	$ 0.099	$ 6.541	$1.14	7.68
Jan	2045	6.424	$ 0.107	$ 6.531	$1.14	7.67
Feb	2045	6.462	$ 0.056	$ 6.518	$1.14	7.66
Mar	2045	6.358	$ 0.031	$ 6.390	$1.14	7.53
Apr	2045	6.212	$ 0.026	$ 6.238	$1.13	7.37
May	2045	6.245	$ 0.042	$ 6.287	$1.13	7.42
Jun	2045	6.283	$ 0.109	$ 6.393	$1.14	7.53
Jul	2045	6.574	$ 0.157	$ 6.731	$1.15	7.88
Aug	2045	6.615	$ 0.169	$ 6.784	$1.15	7.93
Sep	2045	6.627	$ 0.085	$ 6.711	$1.15	7.86
Oct	2045	6.430	$ 0.062	$ 6.492	$1.14	7.63
Nov	2045	6.534	$ 0.062	$ 6.596	$1.14	7.74
Dec	2045	6.728	$ 0.096	$ 6.824	$1.15	7.97
Jan	2046	6.739	$ 0.115	$ 6.854	$1.15	8.00
Feb	2046	6.760	$ 0.062	$ 6.821	$1.15	7.97
Mar	2046	6.602	$ 0.022	$ 6.624	$1.14	7.77
Apr	2046	6.418	$ 0.018	$ 6.436	$1.14	7.57
May	2046	6.446	$ 0.043	$ 6.489	$1.14	7.63
Jun	2046	6.484	$ 0.110	$ 6.594	$1.14	7.74
Jul	2046	6.815	$ 0.158	$ 6.973	$1.15	8.12
Aug	2046	6.858	$ 0.176	$ 7.034	$1.15	8.19
Sep	2046	6.836	$ 0.081	$ 6.917	$1.15	8.07
Oct	2046	6.620	$ 0.062	$ 6.682	$1.14	7.83
Nov	2046	6.680	$ 0.064	$ 6.745	$1.15	7.89
Dec	2046	6.855	$ 0.103	$ 6.959	$1.15	8.11
Jan	2047	6.873	$ 0.126	$ 6.999	$1.15	8.15
Feb	2047	6.885	$ 0.058	$ 6.943	$1.15	8.09
Mar	2047	6.640	$ 0.019	$ 6.659	$1.14	7.80
Apr	2047	6.485	$ 0.022	$ 6.507	$1.14	7.65
May	2047	6.511	$ 0.039	$ 6.550	$1.14	7.69
Jun	2047	6.549	$ 0.123	$ 6.673	$1.14	7.82
Jul	2047	6.870	$ 0.165	$ 7.035	$1.15	8.19
Aug	2047	6.915	$ 0.182	$ 7.096	$1.15	8.25
Sep	2047	6.910	$ 0.088	$ 6.998	$1.15	8.15
Oct	2047	6.787	$ 0.052	$ 6.839	$1.15	7.99
Nov	2047	6.847	$ 0.052	$ 6.899	$1.15	8.05
Dec	2047	6.874	$ 0.093	$ 6.967	$1.15	8.12
Jan	2048	6.803	$ 0.109	$ 6.912	$1.15	8.06
Feb	2048	6.814	$ 0.036	$ 6.872	$1.15	8.02
Mar	2048	6.682	$ 0.007	$ 6.689	$1.14	7.83
Apr	2048	6.585	$ 0.022	$ 6.607	$1.14	7.75
May	2048	6.823	$ 0.032	$ 6.855	$1.14	7.80
Jun	2048	6.691	$ 0.099	$ 6.790	$1.15	7.94
Jul

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base Htt Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	FGT MMBTU Variable Cost	FGT Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.046)	$ 3.064	$0.23	3.29
Feb	2019	2.690	$ (0.019)	$ 2.671	$0.22	2.89
Mar	2019	2.950	$ (0.003)	$ 2.947	$0.22	3.17
Apr	2019	2.650	$ (0.001)	$ 2.649	$0.21	2.86
May	2019	2.640	$ 0.005	$ 2.645	$0.21	2.86
Jun	2019	2.400	$ 0.037	$ 2.437	$0.21	2.65
Jul	2019	2.370	$ 0.048	$ 2.418	$0.21	2.63
Aug	2019	2.220	$ 0.056	$ 2.276	$0.21	2.48
Sep	2019	2.560	$ 0.016	$ 2.576	$0.21	2.79
Oct	2019	2.743	$ 0.010	$ 2.753	$0.22	2.97
Nov	2019	2.303	$ 0.012	$ 2.315	$0.21	2.52
Dec	2019	2.495	$ 0.023	$ 2.518	$0.21	2.73
Jan	2020	2.612	$ 0.035	$ 2.647	$0.21	2.86
Feb	2020	2.575	$ 0.024	$ 2.599	$0.21	2.81
Mar	2020	2.462	$ (0.026)	$ 2.442	$0.21	2.65
Apr	2020	2.247	$ (0.019)	$ 2.228	$0.20	2.43
May	2020	2.234	$ 0.005	$ 2.239	$0.20	2.44
Jun	2020	2.278	$ 0.026	$ 2.304	$0.21	2.51
Jul	2020	2.326	$ 0.048	$ 2.374	$0.21	2.58
Aug	2020	2.335	$ 0.055	$ 2.390	$0.21	2.60
Sep	2020	2.318	$ 0.012	$ 2.330	$0.21	2.54
Oct	2020	2.344	$ 0.016	$ 2.360	$0.21	2.57
Nov	2020	2.409	$ 0.025	$ 2.434	$0.21	2.64
Dec	2020	2.578	$ 0.034	$ 2.612	$0.21	2.83
Jan	2021	2.700	$ 0.038	$ 2.738	$0.22	2.96
Feb	2021	2.661	$ 0.033	$ 2.694	$0.22	2.91
Mar	2021	2.548	$ (0.015)	$ 2.533	$0.21	2.74
Apr	2021	2.284	$ (0.021)	$ 2.263	$0.21	2.47
May	2021	2.340	$ 0.005	$ 2.265	$0.21	2.47
Jun	2021	2.294	$ 0.025	$ 2.319	$0.21	2.53
Jul	2021	2.332	$ 0.047	$ 2.379	$0.21	2.59
Aug	2021	2.339	$ 0.058	$ 2.397	$0.21	2.61
Sep	2021	2.328	$ 0.011	$ 2.339	$0.21	2.55
Oct	2021	2.354	$ 0.018	$ 2.372	$0.21	2.58
Nov	2021	2.424	$ 0.027	$ 2.451	$0.21	2.66
Dec	2021	2.603	$ 0.038	$ 2.641	$0.21	2.86
Jan	2022	2.729	$ 0.041	$ 2.770	$0.22	2.99
Feb	2022	2.702	$ 0.036	$ 2.738	$0.22	2.96
Mar	2022	2.585	$ (0.013)	$ 2.582	$0.21	2.80
Apr	2022	2.340	$ (0.016)	$ 2.324	$0.21	2.53
May	2022	2.324	$ 0.007	$ 2.331	$0.21	2.54
Jun	2022	2.359	$ 0.034	$ 2.393	$0.21	2.60
Jul	2022	2.399	$ 0.059	$ 2.458	$0.21	2.67
Aug	2022	2.411	$ 0.066	$ 2.477	$0.21	2.69
Sep	2022	2.404	$ 0.021	$ 2.425	$0.21	2.63
Oct	2022	2.430	$ 0.024	$ 2.454	$0.21	2.66
Nov	2022	2.492	$ 0.034	$ 2.526	$0.21	2.74
Dec	2022	2.674	$ 0.044	$ 2.718	$0.22	2.93
Jan	2023	2.799	$ 0.052	$ 2.851	$0.22	3.07
Feb	2023	2.767	$ 0.047	$ 2.814	$0.22	3.03
Mar	2023	2.646	$ (0.003)	$ 2.653	$0.21	2.87
Apr	2023	2.401	$ (0.008)	$ 2.393	$0.21	2.60
May	2023	2.385	$ 0.016	$ 2.401	$0.21	2.61
Jun	2023	2.426	$ 0.042	$ 2.468	$0.21	2.68
Jul	2023	2.466	$ 0.068	$ 2.534	$0.21	2.75
Aug	2023	2.481	$ 0.076	$ 2.557	$0.21	2.77
Sep	2023	2.476	$ 0.029	$ 2.505	$0.21	2.72
Oct	2023	2.505	$ 0.030	$ 2.535	$0.21	2.75
Nov	2023	2.580	$ 0.037	$ 2.617	$0.21	2.83
Dec	2023	2.760	$ 0.053	$ 2.813	$0.22	3.03
Jan	2024	2.883	$ 0.058	$ 2.941	$0.22	3.16
Feb	2024	2.854	$ 0.050	$ 2.903	$0.22	3.12
Mar	2024	2.742	$ (0.002)	$ 2.740	$0.22	2.96
Apr	2024	2.511	$ (0.007)	$ 2.503	$0.21	2.71
May	2024	2.501	$ 0.017	$ 2.518	$0.21	2.73
Jun	2024	2.537	$ 0.046	$ 2.583	$0.21	2.80
Jul	2024	2.579	$ 0.077	$ 2.656	$0.22	2.87
Aug	2024	2.594	$ 0.077	$ 2.671	$0.22	2.89
Sep	2024	2.590	$ 0.047	$ 2.636	$0.21	2.85
Oct	2024	2.611	$ 0.040	$ 2.651	$0.21	2.87
Nov	2024	2.687	$ 0.044	$ 2.731	$0.22	2.95
Dec	2024	2.860	$ 0.056	$ 2.916	$0.22	3.14
Jan	2025	2.961	$ 0.061	$ 3.022	$0.22	3.25
Feb	2025	2.947	$ 0.055	$ 3.003	$0.22	3.23
Mar	2025	2.864	$ (0.001)	$ 2.863	$0.22	3.08
Apr	2025	2.688	$ (0.011)	$ 2.677	$0.22	2.89
May	2025	2.692	$ 0.018	$ 2.707	$0.22	2.92
Jun	2025	2.727	$ 0.054	$ 2.781	$0.22	3.00
Jul	2025	2.807	$ 0.078	$ 2.886	$0.22	3.11
Aug	2025	2.831	$ 0.078	$ 2.908	$0.22	3.13
Sep	2025	2.739	$ 0.045	$ 2.784	$0.22	3.00
Oct	2025	2.754	$ 0.035	$ 2.789	$0.22	3.01
Nov	2025	2.829	$ 0.036	$ 2.865	$0.22	3.09
Dec	2025	2.987	$ 0.051	$ 3.038	$0.22	3.26
Jan	2026	3.084	$ 0.057	$ 3.140	$0.23	3.37
Feb	2026	3.076	$ 0.053	$ 3.129	$0.23	3.36
Mar	2026	2.994	$ (0.003)	$ 2.991	$0.22	3.21
Apr	2026	2.857	$ (0.001)	$ 2.856	$0.22	3.08
May	2026	2.868	$ 0.022	$ 2.890	$0.22	3.11
Jun	2026	2.914	$ 0.053	$ 2.967	$0.22	3.19
Jul	2026	3.053	$ 0.077	$ 3.130	$0.23	3.36
Aug	2026	3.085	$ 0.078	$ 3.163	$0.23	3.39
Sep	2026	3.022	$ 0.041	$ 3.063	$0.23	3.29
Oct	2026	3.013	$ 0.034	$ 3.047	$0.22	3.27
Nov	2026	3.078	$ 0.042	$ 3.120	$0.23	3.35
Dec	2026	3.243	$ 0.054	$ 3.297	$0.23	3.53
Jan	2027	3.321	$ 0.062	$ 3.383	$0.23	3.62
Feb	2027	3.333	$ 0.057	$ 3.390	$0.23	3.62
Mar	2027	3.278	$ (0.002)	$ 3.276	$0.23	3.51
Apr	2027	3.125	$ (0.002)	$ 3.123	$0.23	3.35
May	2027	3.145	$ 0.021	$ 3.166	$0.23	3.39
Jun	2027	3.207	$ 0.051	$ 3.258	$0.23	3.49
Jul	2027	3.410	$ 0.079	$ 3.489	$0.24	3.72
Aug	2027	3.447	$ 0.082	$ 3.529	$0.24	3.77
Sep	2027	3.434	$ 0.043	$ 3.477	$0.24	3.71
Oct	2027	3.325	$ 0.038	$ 3.364	$0.23	3.60
Nov	2027	3.393	$ 0.043	$ 3.435	$0.23	3.67
Dec	2027	3.568	$ 0.054	$ 3.622	$0.24	3.86
Jan	2028	3.556	$ 0.063	$ 3.618	$0.24	3.86
Feb	2028	3.576	$ 0.047	$ 3.623	$0.24	3.86
Mar	2028	3.501	$ (0.002)	$ 3.498	$0.24	3.73
Apr	2028	3.454	$ (0.006)	$ 3.448	$0.23	3.68
May	2028	3.483	$ 0.024	$ 3.506	$0.24	3.74
Jun	2028	3.644	$ 0.059	$ 3.703	$0.24	3.94
Jul	2028	3.656	$ 0.091	$ 3.747	$0.24	3.99
Aug	2028	3.698	$ 0.089	$ 3.788	$0.24	4.03
Sep	2028	3.748	$ 0.048	$ 3.795	$0.24	4.04
Oct	2028	3.729	$ 0.044	$ 3.772	$0.24	4.01
Nov	2028	3.780	$ 0.046	$ 3.826	$0.24	4.07
Dec	2028	4.008	$ 0.054	$ 4.062	$0.25	4.31
Jan	2029	4.026	$ 0.075	$ 4.102	$0.25	4.35
Feb	2029	4.051	$ 0.068	$ 4.120	$0.25	4.37
Mar	2029	3.886	$ 0.007	$ 3.873	$0.25	4.12
Apr	2029	3.878	$ 0.002	$ 3.880	$0.25	4.13
May	2029	3.934	$ 0.027	$ 3.961	$0.25	4.21
Jun	2029	4.041	$ 0.062	$ 4.102	$0.25	4.35
Jul	2029	3.805	$ 0.091	$ 3.896	$0.25	4.14
Aug	2029	3.833	$ 0.098	$ 3.931	$0.25	4.18
Sep	2029	3.935	$ 0.053	$ 3.988	$0.25	4.24
Oct	2029	3.926	$ 0.040	$ 3.967	$0.25	4.21
Nov	2029	3.843	$ 0.063	$ 3.906	$0.25	4.15
Dec	2029	4.030	$ 0.062	$ 4.083	$0.25	4.33
Jan	2030	4.004	$ 0.075	$ 4.079	$0.25	4.33
Feb	2030	4.029	$ 0.069	$ 4.098	$0.25	4.35
Mar	2030	3.934	$ 0.004	$ 3.937	$0.25	4.18
Apr	2030	3.906	$ (0.008)	$ 3.898	$0.25	4.14
May	2030	3.929	$ 0.029	$ 3.959	$0.25	4.21
Jun	2030	3.994	$ 0.069	$ 4.062	$0.25	4.31
Jul	2030	4.277	$ 0.104	$ 4.380	$0.26	4.64
Aug	2030	4.308	$ 0.113	$ 4.421	$0.26	4.68
Sep	2030	4.245	$ 0.056	$ 4.301	$0.26	4.56
Oct	2030	4.053	$ 0.053	$ 4.106	$0.25	4.36
Nov	2030	3.979	$ 0.056	$ 4.035	$0.25	4.28
Dec	2030	4.172	$ 0.064	$ 4.237	$0.25	4.49
Jan	2031	4.225	$ 0.098	$ 4.322	$0.26	4.58
Feb	2031	4.251	$ 0.092	$ 4.344	$0.26	4.60
Mar	2031	4.167	$ 0.019	$ 4.187	$0.25	4.44
Apr	2031	4.157	$ 0.000	$ 4.132	$0.25	4.38
May	2031	4.158	$ 0.055	$ 4.213	$0.25	4.47
Jun	2031	4.214	$ 0.082	$ 4.296	$0.26	4.55
Jul	2031	4.499	$ 0.116	$ 4.615	$0.26	4.88
Aug	2031	4.544	$ 0.139	$ 4.683	$0.27	4.95
Sep	2031	4.460	$ 0.086	$ 4.546	$0.26	4.81
Oct	2031	4.491	$ 0.082	$ 4.403	$0.26	4.66
Nov	2031	4.381	$ 0.066	$ 4.447	$0.26	4.71
Dec	2031	4.533	$ 0.082	$ 4.615	$0.26	4.88
Jan	2032	4.448	$ 0.106	$ 4.554	$0.26	4.82
Feb	2032	4.472	$ 0.077	$ 4.549	$0.26	4.81
Mar	2032	4.455	$ 0.050	$ 4.504	$0.26	4.77
Apr	2032	4.318	$ 0.026	$ 4.344	$0.26	4.60
May	2032	4.342	$ 0.069	$ 4.411	$0.26	4.67
Jun	2032	4.369	$ 0.095	$ 4.464	$0.26	4.72
Jul	2032	4.491	$ 0.136	$ 4.628	$0.26	4.89
Aug	2032	4.530	$ 0.159	$ 4.689	$0.27	4.95
Sep	2032	4.464	$ 0.091	$ 4.555	$0.26	4.82
Oct	2032	4.435	$ 0.088	$ 4.524	$0.26	4.79
Nov	2032	4.539	$ 0.053	$ 4.592	$0.26	4.86
Dec	2032	4.550	$ 0.072	$ 4.622	$0.26	4.89
Jan	2033	4.332	$ 0.093	$ 4.424	$0.26	4.68
Feb	2033	4.361	$ 0.091	$ 4.452	$0.26	4.71
Mar	2033	4.319	$ 0.022	$ 4.340	$0.26	4.60
Apr	2033	4.317	$ 0.016	$ 4.333	$0.26	4.59
May	2033	4.345	$ 0.032	$ 4.377	$0.26	4.64
Jun	2033	4.376	$ 0.080	$ 4.456	$0.26	4.72
Jul	2033	4.510	$ 0.119	$ 4.629	$0.26	4.89
Aug	2033	4.548	$ 0.127	$ 4.677	$0.27	4.94
Sep	2033	4.490	$ 0.068	$ 4.558	$0.26	4.82
Oct	2033	4.448	$ 0.053	$ 4.501	$0.26	4.76
Nov	2033	4.579	$ 0.033	$ 4.612	$0.26	4.88
Dec	2033	4.739	$ 0.047	$ 4.787	$0.27	5.06
Jan	2034	4.726	$ 0.080	$ 4.806	$0.27	5.07
Feb	2034	4.645	$ 0.056	$ 4.645	$0.26	4.91
Mar	2034	4.457	$ (0.008)	$ 4.450	$0.26	4.71
Apr	2034	4.404	$ 0.009	$ 4.413	$0.26	4.67
May	2034	4.433	$ 0.039	$ 4.472	$0.26	4.73
Jun	2034	4.462	$ 0.084	$ 4.546	$0.26	4.81
Jul	2034	4.676	$ 0.125	$ 4.801	$0.27	5.07
Aug	2034	4.712	$ 0.144	$ 4.856	$0.27	5.13
Sep	2034	4.623	$ 0.074	$ 4.697	$0.27	4.96
Oct	2034	4.509	$ 0.049	$ 4.558	$0.26	4.82
Nov	2034	4.704	$ 0.034	$ 4.738	$0.27	5.01
Dec	2034	4.869	$ 0.055	$ 4.924	$0.27	5.20
Jan	2035	4.897	$ 0.086	$ 4.983	$0.27	5.26
Feb	2035	4.922	$ 0.065	$ 4.987	$0.27	5.26
Mar	2035	4.772	$ 0.018	$ 4.791	$0.27	5.06
Apr	2035	4.557	$ 0.023	$ 4.580	$0.26	4.84
May	2035	4.585	$ 0.046	$ 4.632	$0.26	4.90
Jun	2035	4.615	$ 0.091	$ 4.706	$0.27	4.97
Jul	2035	4.853	$ 0.130	$ 4.983	$0.27	5.26
Aug	2035	4.894	$ 0.147	$ 5.031	$0.27	5.31
Sep	2035	4.802	$ 0.075	$ 4.877	$0.27	5.15
Oct	2035	4.679	$ 0.048	$ 4.727	$0.27	4.99
Nov	2035	4.719	$ 0.033	$ 4.752	$0.27	5.02
Dec	2035	4.950	$ 0.058	$ 4.908	$0.27	5.18
Jan	2036	4.798	$ 0.093	$ 4.891	$0.27	5.16
Feb	2036	4.819	$ 0.034	$ 4.853	$0.27	5.12
Mar	2036	4.738	$ 0.020	$ 4.758	$0.27	5.03
Apr	2036	4.553	$ 0.023	$ 4.575	$0.26	4.84
May	2036	4.581	$ 0.049	$ 4.631	$0.26	4.90
Jun	2036	4.615	$ 0.096	$ 4.711	$0.27	4.98
Jul	2036	4.751	$ 0.135	$ 4.886	$0.27	5.16
Aug	2036	4.785	$ 0.150	$ 4.935	$0.27	5.21
Sep	2036	4.762	$ 0.089	$ 4.851	$0.27	5.12
Oct	2036	4.730	$ 0.076	$ 4.806	$0.27	5.07
Nov	2036	4.794	$ 0.051	$ 4.845	$0.27	5.11
Dec	2036	5.013	$ 0.064	$ 5.077	$0.28	5.35
Jan	2037	5.030	$ 0.105	$ 5.135	$0.28	5.41
Feb	2037	5.061	$ 0.081	$ 5.143	$0.28	5.42
Mar	2037	4.986	$ 0.024	$ 5.011	$0.27	5.28
Apr	2037	4.842	$ 0.021	$ 4.863	$0.27	5.13
May	2037	4.872	$ 0.055	$ 4.927	$0.27	5.20
Jun	2037	4.921	$ 0.111	$ 5.032	$0.27	5.31
Jul	2037	5.132	$ 0.147	$ 5.279	$0.28	5.56
Aug	2037	5.166	$ 0.147	$ 5.312	$0.28	5.59
Sep	2037	5.095	$ 0.096	$ 5.190	$0.28	5.47
Oct	2037	5.079	$ 0.074	$ 5.153	$0.28	5.39
Nov	2037	5.103	$ 0.052	$ 5.155	$0.28	5.43
Dec	2037	5.316	$ 0.078	$ 5.394	$0.28	5.68
Jan	2038	5.338	$ 0.111	$ 5.449	$0.28	5.73
Feb	2038	5.371	$ 0.088	$ 5.459	$0.29	5.74
Mar	2038	5.288	$ 0.026	$ 5.314	$0.28	5.60
Apr	2038	5.108	$ 0.044	$ 5.152	$0.28	5.43
May	2038	5.139	$ 0.060	$ 5.199	$0.28	5.48
Jun	2038	5.176	$ 0.118	$ 5.294	$0.28	5.58
Jul	2038	5.323	$ 0.152	$ 5.475	$0.29	5.76
Aug	2038	5.361	$ 0.145	$ 5.506	$0.29	5.79
Sep	2038	5.240	$ 0.104	$ 5.344	$0.28	5.63
Oct	2038	5.187	$ 0.064	$ 5.251	$0.28	5.53
Nov	2038	5.273	$ 0.073	$ 5.347	$0.28	5.63
Dec	2038	5.462	$ 0.100	$ 5.562	$0.29	5.85
Jan	2039	5.479	$ 0.119	$ 5.598	$0.29	5.89
Feb	2039	5.513	$ 0.101	$ 5.614	$0.29	5.90
Mar	2039	5.381	$ 0.032	$ 5.413	$0.28	5.70
Apr	2039	5.036	$ 0.041	$ 5.077	$0.28	5.35
May	2039	5.085	$ 0.052	$ 5.117	$0.28	5.39
Jun	2039	5.097	$ 0.115	$ 5.212	$0.28	5.49
Jul	2039	5.149	$ 0.129	$ 5.277	$0.28	5.56
Aug	2039	5.154	$ 0.145	$ 5.740	$0.29	6.03
Sep	2039	5.570	$ 0.088	$ 5.658	$0.29	5.95
Oct	2039	5.363	$ 0.081	$ 5.444	$0.28	5.73
Nov	2039	5.424	$ 0.063	$ 5.487	$0.29	5.77
Dec	2039	5.590	$ 0.087	$ 5.677	$0.29	5.97
Jan	2040	5.550	$ 0.098	$ 5.648	$0.29	5.94
Feb	2040	5.579	$ 0.061	$ 5.640	$0.29	5.93
Mar	2040	5.488	$ 0.033	$ 5.521	$0.29	5.81
Apr	2040	5.306	$ 0.013	$ 5.320	$0.28	5.60
May	2040	5.337	$ 0.058	$ 5.395	$0.28	5.68
Jun	2040	5.383	$ 0.108	$ 5.490	$0.29	5.78
Jul	2040	5.580	$ 0.144	$ 5.724	$0.29	6.02
Aug	2040	5.614	$ 0.155	$ 5.768	$0.29	6.06
Sep	2040	5.602	$ 0.098	$ 5.701	$0.29	5.99
Oct	2040	5.477	$ 0.086	$ 5.563	$0.29	5.85
Nov	2040	5.535	$ 0.069	$ 5.604	$0.29	5.89
Dec	2040	5.724	$ 0.135	$ 5.859	$0.30	6.13
Jan	2041	5.766	$ 0.113	$ 5.879	$0.30	6.17
Feb	2041	5.788	$ 0.083	$ 5.871	$0.30	6.17
Mar	2041	5.665	$ 0.037	$ 5.702	$0.29	5.99
Apr	2041	5.459	$ 0.048	$ 5.506	$0.29	5.79
May	2041	5.492	$ 0.061	$ 5.553	$0.29	5.84
Jun	2041	5.551	$ 0.124	$ 5.674	$0.29	5.96
Jul	2041	5.794	$ 0.166	$ 5.961	$0.30	6.26
Aug	2041	5.829	$ 0.158	$ 5.987	$0.30	6.29
Sep	2041	5.731	$ 0.116	$ 5.847	$0.30	6.24
Oct	2041	5.639	$ 0.061	$ 5.700	$0.29	5.99
Nov	2041	5.743	$ 0.077	$ 5.820	$0.29	6.11
Dec	2041	5.906	$ 0.127	$ 6.033	$0.30	6.33
Jan	2042	5.890	$ 0.120	$ 6.010	$0.30	6.31
Feb	2042	5.914	$ 0.089	$ 6.003	$0.30	6.30
Mar	2042	5.789	$ 0.033	$ 5.822	$0.29	6.12
Apr	2042	5.627	$ 0.045	$ 5.672	$0.29	5.96
May	2042	5.662	$ 0.063	$ 5.725	$0.29	6.02
Jun	2042	5.717	$ 0.134	$ 5.851	$0.29	6.15
Jul	2042	6.009	$ 0.168	$ 6.176	$0.30	6.48
Aug	2042	6.046	$ 0.171	$ 6.217	$0.30	6.52
Sep	2042	6.026	$ 0.120	$ 6.147	$0.30	6.45
Oct	2042	5.820	$ 0.080	$ 5.900	$0.30	6.20
Nov	2042	5.852	$ 0.075	$ 5.927	$0.30	6.22
Dec	2042	6.037	$ 0.102	$ 6.139	$0.30	6.44
Jan	2043	6.007	$ 0.105	$ 6.112	$0.30	6.41
Feb	2043	6.026	$ 0.058	$ 6.085	$0.30	6.39
Mar	2043	5.909	$ 0.035	$ 5.944	$0.30	6.24
Apr	2043	5.704	$ 0.028	$ 5.732	$0.29	6.02
May	2043	5.739	$ 0.050	$ 5.789	$0.29	6.08
Jun	2043	5.782	$ 0.106	$ 5.888	$0.30	6.18
Jul	2043	6.064	$ 0.164	$ 6.229	$0.30	6.53
Aug	2043	6.101	$ 0.156	$ 6.257	$0.31	6.56
Sep	2043	6.120	$ 0.091	$ 6.211	$0.30	6.51
Oct	2043	5.967	$ 0.077	$ 5.969	$0.30	6.27
Nov	2043	5.943	$ 0.066	$ 6.010	$0.30	6.31
Dec	2043	6.136	$ 0.097	$ 6.233	$0.30	6.54
Jan	2044	6.140	$ 0.099	$ 6.251	$0.30	6.56
Feb	2044	6.179	$ 0.059	$ 6.238	$0.30	6.54
Mar	2044	6.050	$ 0.025	$ 6.075	$0.30	6.38
Apr	2044	5.970	$ 0.029	$ 5.998	$0.30	6.27
May	2044	5.974	$ 0.040	$ 6.013	$0.30	6.31
Jun	2044	6.010	$ 0.105	$ 6.115	$0.30	6.42
Jul	2044	6.286	$ 0.160	$ 6.446	$0.31	6.76
Aug	2044	6.324	$ 0.162	$ 6.486	$0.31	6.80
Sep	2044	6.312	$ 0.080	$ 6.393	$0.31	6.70
Oct	2044	6.153	$ 0.045	$ 6.198	$0.30	6.50
Nov	2044	6.248	$ 0.060	$ 6.308	$0.31	6.61
Dec	2044	6.442	$ 0.099	$ 6.541	$0.31	6.85
Jan	2045	6.424	$ 0.107	$ 6.531	$0.31	6.84
Feb	2045	6.462	$ 0.056	$ 6.518	$0.31	6.83
Mar	2045	6.358	$ 0.031	$ 6.390	$0.31	6.70
Apr	2045	6.212	$ 0.026	$ 6.238	$0.30	6.54
May	2045	6.245	$ 0.042	$ 6.287	$0.31	6.59
Jun	2045	6.283	$ 0.109	$ 6.393	$0.31	6.70
Jul	2045	6.574	$ 0.157	$ 6.731	$0.32	7.05
Aug	2045	6.615	$ 0.169	$ 6.784	$0.32	7.10
Sep	2045	6.627	$ 0.085	$ 6.711	$0.32	7.03
Oct	2045	6.430	$ 0.062	$ 6.492	$0.31	6.80
Nov	2045	6.614	$ 0.062	$ 6.596	$0.31	6.91
Dec	2045	6.728	$ 0.096	$ 6.824	$0.32	7.14
Jan	2046	6.739	$ 0.115	$ 6.854	$0.32	7.17
Feb	2046	6.760	$ 0.062	$ 6.821	$0.32	7.14
Mar	2046	6.602	$ 0.022	$ 6.624	$0.31	6.94
Apr	2046	6.418	$ 0.018	$ 6.436	$0.31	6.75
May	2046	6.446	$ 0.043	$ 6.489	$0.31	6.80
Jun	2046	6.484	$ 0.110	$ 6.594	$0.31	6.91
Jul	2046	6.815	$ 0.158	$ 6.973	$0.32	7.30
Aug	2046	6.958	$ 0.176	$ 7.034	$0.32	7.36
Sep	2046	6.836	$ 0.081	$ 6.917	$0.32	7.24
Oct	2046	6.620	$ 0.062	$ 6.682	$0.32	7.00
Nov	2046	6.680	$ 0.064	$ 6.745	$0.32	7.06
Dec	2046	6.855	$ 0.103	$ 6.959	$0.32	7.28
Jan	2047	6.873	$ 0.126	$ 6.999	$0.32	7.32
Feb	2047	6.885	$ 0.058	$ 6.943	$0.32	7.27
Mar	2047	6.640	$ 0.019	$ 6.659	$0.32	6.97
Apr	2047	6.485	$ 0.022	$ 6.507	$0.31	6.82
May	2047	6.511	$ 0.039	$ 6.550	$0.31	6.86
Jun	2047	6.549	$ 0.123	$ 6.673	$0.32	6.99
Jul	2047	6.870	$ 0.165	$ 7.035	$0.32	7.36
Aug	2047	6.913	$ 0.182	$ 7.096	$0.33	7.42
Sep	2047	6.910	$ 0.088	$ 6.998	$0.32	7.32
Oct	2047	6.787	$ 0.052	$ 6.839	$0.32	7.16
Nov	2047	6.847	$ 0.052	$ 6.899	$0.32	7.22
Dec	2047	6.974	$ 0.093	$ 6.967	$0.32	7.29
Jan	2048	6.803	$ 0.109	$ 6.912	$0.32	7.23
Feb	2048	6.836	$ 0.036	$ 6.872	$0.32	7.19
Mar	2048	6.687	$ 0.007	$ 6.689	$0.32	7.00
Apr	2048	6.585	$ 0.022	$ 6.607	$0.31	6.92
May	2048	6.622	$ 0.032	$ 6.655	$0.32	6.97
Jun	2048	6.801	$ 0.099	$ 6.790	$0.32	7.11
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DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	GSNG MMBTU Variable Cost	GSNG Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.046)	$ 3.064	$0.08	3.14
Feb	2019	2.690	$ (0.019)	$ 2.671	$0.07	2.74
Mar	2019	2.950	$ (0.003)	$ 2.947	$0.08	3.02
Apr	2019	2.650	$ (0.001)	$ 2.649	$0.07	2.72
May	2019	2.640	$ 0.005	$ 2.645	$0.07	2.71
Jun	2019	2.400	$ 0.037	$ 2.437	$0.07	2.50
Jul	2019	2.370	$ 0.048	$ 2.418	$0.07	2.48
Aug	2019	2.220	$ 0.056	$ 2.276	$0.06	2.34
Sep	2019	2.560	$ 0.016	$ 2.576	$0.07	2.64
Oct	2019	2.743	$ 0.010	$ 2.753	$0.07	2.82
Nov	2019	2.303	$ 0.012	$ 2.315	$0.06	2.38
Dec	2019	2.495	$ 0.023	$ 2.518	$0.07	2.59
Jan	2020	2.612	$ 0.035	$ 2.647	$0.07	2.72
Feb	2020	2.575	$ 0.014	$ 2.589	$0.07	2.67
Mar	2020	2.462	$ (0.020)	$ 2.442	$0.07	2.51
Apr	2020	2.247	$ (0.019)	$ 2.228	$0.06	2.29
May	2020	2.234	$ 0.005	$ 2.239	$0.06	2.30
Jun	2020	2.278	$ 0.026	$ 2.304	$0.06	2.37
Jul	2020	2.326	$ 0.048	$ 2.374	$0.06	2.44
Aug	2020	2.335	$ 0.055	$ 2.390	$0.07	2.46
Sep	2020	2.318	$ 0.012	$ 2.330	$0.06	2.39
Oct	2020	2.344	$ 0.016	$ 2.360	$0.06	2.42
Nov	2020	2.409	$ 0.025	$ 2.434	$0.07	2.50
Dec	2020	2.578	$ 0.034	$ 2.612	$0.07	2.68
Jan	2021	2.705	$ 0.038	$ 2.738	$0.07	2.81
Feb	2021	2.661	$ 0.033	$ 2.694	$0.07	2.76
Mar	2021	2.548	$ (0.015)	$ 2.533	$0.07	2.60
Apr	2021	2.264	$ (0.021)	$ 2.263	$0.06	2.33
May	2021	2.260	$ 0.005	$ 2.265	$0.06	2.33
Jun	2021	2.294	$ 0.025	$ 2.319	$0.06	2.38
Jul	2021	2.332	$ 0.047	$ 2.379	$0.06	2.44
Aug	2021	2.339	$ 0.058	$ 2.397	$0.07	2.46
Sep	2021	2.328	$ 0.011	$ 2.339	$0.06	2.40
Oct	2021	2.354	$ 0.018	$ 2.372	$0.06	2.44
Nov	2021	2.424	$ 0.027	$ 2.451	$0.07	2.52
Dec	2021	2.603	$ 0.038	$ 2.641	$0.07	2.71
Jan	2022	2.729	$ 0.041	$ 2.770	$0.07	2.84
Feb	2022	2.702	$ 0.036	$ 2.738	$0.07	2.81
Mar	2022	2.595	$ (0.013)	$ 2.582	$0.07	2.65
Apr	2022	2.340	$ (0.016)	$ 2.324	$0.06	2.39
May	2022	2.324	$ 0.007	$ 2.331	$0.06	2.39
Jun	2022	2.359	$ 0.034	$ 2.393	$0.07	2.46
Jul	2022	2.399	$ 0.059	$ 2.458	$0.07	2.52
Aug	2022	2.411	$ 0.066	$ 2.477	$0.07	2.54
Sep	2022	2.404	$ 0.021	$ 2.425	$0.07	2.49
Oct	2022	2.430	$ 0.024	$ 2.454	$0.07	2.52
Nov	2022	2.497	$ 0.034	$ 2.526	$0.07	2.59
Dec	2022	2.674	$ 0.044	$ 2.718	$0.07	2.79
Jan	2023	2.799	$ 0.052	$ 2.851	$0.07	2.92
Feb	2023	2.767	$ 0.047	$ 2.814	$0.07	2.89
Mar	2023	2.656	$ (0.003)	$ 2.653	$0.07	2.72
Apr	2023	2.401	$ (0.008)	$ 2.393	$0.07	2.46
May	2023	2.385	$ 0.016	$ 2.401	$0.07	2.47
Jun	2023	2.426	$ 0.042	$ 2.468	$0.07	2.53
Jul	2023	2.466	$ 0.068	$ 2.534	$0.07	2.60
Aug	2023	2.481	$ 0.076	$ 2.557	$0.07	2.63
Sep	2023	2.476	$ 0.029	$ 2.505	$0.07	2.57
Oct	2023	2.505	$ 0.030	$ 2.535	$0.07	2.60
Nov	2023	2.580	$ 0.037	$ 2.617	$0.07	2.69
Dec	2023	2.760	$ 0.053	$ 2.813	$0.07	2.89
Jan	2024	2.883	$ 0.058	$ 2.941	$0.08	3.02
Feb	2024	2.854	$ 0.050	$ 2.903	$0.07	2.98
Mar	2024	2.742	$ (0.002)	$ 2.740	$0.07	2.81
Apr	2024	2.511	$ (0.007)	$ 2.503	$0.07	2.57
May	2024	2.501	$ 0.017	$ 2.519	$0.07	2.59
Jun	2024	2.537	$ 0.046	$ 2.583	$0.07	2.65
Jul	2024	2.579	$ 0.077	$ 2.656	$0.07	2.73
Aug	2024	2.594	$ 0.077	$ 2.671	$0.07	2.74
Sep	2024	2.590	$ 0.047	$ 2.636	$0.07	2.71
Oct	2024	2.611	$ 0.040	$ 2.651	$0.07	2.72
Nov	2024	2.687	$ 0.044	$ 2.731	$0.07	2.80
Dec	2024	2.860	$ 0.056	$ 2.916	$0.07	2.99
Jan	2025	2.961	$ 0.061	$ 3.022	$0.08	3.10
Feb	2025	2.947	$ 0.055	$ 3.003	$0.08	3.08
Mar	2025	2.864	$ (0.001)	$ 2.863	$0.07	2.94
Apr	2025	2.688	$ (0.011)	$ 2.677	$0.07	2.75
May	2025	2.692	$ 0.016	$ 2.707	$0.07	2.78
Jun	2025	2.727	$ 0.054	$ 2.781	$0.07	2.85
Jul	2025	2.807	$ 0.078	$ 2.886	$0.07	2.96
Aug	2025	2.831	$ 0.078	$ 2.908	$0.07	2.98
Sep	2025	2.739	$ 0.045	$ 2.784	$0.07	2.86
Oct	2025	2.754	$ 0.035	$ 2.789	$0.07	2.86
Nov	2025	2.829	$ 0.036	$ 2.865	$0.07	2.94
Dec	2025	2.987	$ 0.051	$ 3.038	$0.08	3.12
Jan	2026	3.084	$ 0.057	$ 3.140	$0.08	3.22
Feb	2026	3.076	$ 0.053	$ 3.129	$0.08	3.21
Mar	2026	2.994	$ (0.003)	$ 2.991	$0.08	3.07
Apr	2026	2.857	$ (0.001)	$ 2.856	$0.07	2.93
May	2026	2.868	$ 0.022	$ 2.890	$0.07	2.96
Jun	2026	2.914	$ 0.053	$ 2.967	$0.08	3.04
Jul	2026	3.053	$ 0.077	$ 3.130	$0.08	3.21
Aug	2026	3.085	$ 0.078	$ 3.163	$0.08	3.24
Sep	2026	3.022	$ 0.041	$ 3.063	$0.08	3.14
Oct	2026	3.013	$ 0.034	$ 3.047	$0.08	3.12
Nov	2026	3.078	$ 0.042	$ 3.120	$0.08	3.20
Dec	2026	3.243	$ 0.054	$ 3.297	$0.08	3.38
Jan	2027	3.321	$ 0.062	$ 3.383	$0.08	3.47
Feb	2027	3.333	$ 0.057	$ 3.390	$0.08	3.47
Mar	2027	3.278	$ (0.002)	$ 3.276	$0.08	3.36
Apr	2027	3.124	$ (0.002)	$ 3.123	$0.08	3.20
May	2027	3.145	$ 0.021	$ 3.166	$0.08	3.25
Jun	2027	3.207	$ 0.051	$ 3.258	$0.08	3.34
Jul	2027	3.410	$ 0.079	$ 3.489	$0.09	3.57
Aug	2027	3.447	$ 0.082	$ 3.529	$0.09	3.62
Sep	2027	3.434	$ 0.043	$ 3.477	$0.09	3.56
Oct	2027	3.326	$ 0.038	$ 3.364	$0.08	3.45
Nov	2027	3.392	$ 0.043	$ 3.435	$0.08	3.52
Dec	2027	3.568	$ 0.054	$ 3.622	$0.09	3.71
Jan	2028	3.556	$ 0.063	$ 3.618	$0.09	3.71
Feb	2028	3.576	$ 0.047	$ 3.623	$0.09	3.71
Mar	2028	3.501	$ (0.002)	$ 3.498	$0.09	3.58
Apr	2028	3.454	$ (0.006)	$ 3.448	$0.08	3.53
May	2028	3.483	$ 0.024	$ 3.506	$0.09	3.59
Jun	2028	3.644	$ 0.059	$ 3.703	$0.09	3.79
Jul	2028	3.656	$ 0.091	$ 3.747	$0.09	3.84
Aug	2028	3.698	$ 0.089	$ 3.788	$0.09	3.88
Sep	2028	3.748	$ 0.048	$ 3.795	$0.09	3.89
Oct	2028	3.729	$ 0.044	$ 3.772	$0.09	3.86
Nov	2028	3.780	$ 0.046	$ 3.826	$0.09	3.92
Dec	2028	4.008	$ 0.054	$ 4.062	$0.10	4.16
Jan	2029	4.026	$ 0.075	$ 4.102	$0.10	4.20
Feb	2029	4.043	$ 0.068	$ 4.120	$0.10	4.22
Mar	2029	3.865	$ 0.007	$ 3.873	$0.09	3.97
Apr	2029	3.878	$ 0.002	$ 3.880	$0.09	3.97
May	2029	3.934	$ 0.027	$ 3.961	$0.09	4.06
Jun	2029	4.041	$ 0.062	$ 4.102	$0.10	4.20
Jul	2029	3.805	$ 0.091	$ 3.896	$0.09	3.99
Aug	2029	3.935	$ 0.098	$ 3.931	$0.09	4.03
Sep	2029	3.935	$ 0.053	$ 3.988	$0.10	4.08
Oct	2029	3.926	$ 0.040	$ 3.967	$0.09	4.06
Nov	2029	3.943	$ 0.063	$ 3.906	$0.09	4.00
Dec	2029	4.020	$ 0.062	$ 4.083	$0.10	4.18
Jan	2030	4.004	$ 0.075	$ 4.079	$0.10	4.18
Feb	2030	4.029	$ 0.069	$ 4.098	$0.10	4.20
Mar	2030	3.934	$ 0.004	$ 3.937	$0.09	4.03
Apr	2030	3.906	$ (0.008)	$ 3.898	$0.09	3.99
May	2030	3.929	$ 0.029	$ 3.959	$0.09	4.05
Jun	2030	3.994	$ 0.069	$ 4.062	$0.10	4.16
Jul	2030	4.277	$ 0.104	$ 4.380	$0.10	4.48
Aug	2030	4.308	$ 0.113	$ 4.421	$0.10	4.52
Sep	2030	4.245	$ 0.056	$ 4.301	$0.10	4.40
Oct	2030	4.053	$ 0.053	$ 4.106	$0.10	4.20
Nov	2030	3.979	$ 0.056	$ 4.035	$0.10	4.13
Dec	2030	4.172	$ 0.064	$ 4.237	$0.10	4.34
Jan	2031	4.225	$ 0.098	$ 4.322	$0.10	4.42
Feb	2031	4.251	$ 0.092	$ 4.344	$0.10	4.45
Mar	2031	4.167	$ 0.019	$ 4.187	$0.10	4.29
Apr	2031	4.132	$ 0.000	$ 4.132	$0.10	4.23
May	2031	4.158	$ 0.055	$ 4.213	$0.10	4.31
Jun	2031	4.214	$ 0.082	$ 4.296	$0.10	4.40
Jul	2031	4.459	$ 0.116	$ 4.615	$0.11	4.72
Aug	2031	4.544	$ 0.139	$ 4.683	$0.11	4.79
Sep	2031	4.460	$ 0.086	$ 4.546	$0.11	4.65
Oct	2031	4.321	$ 0.082	$ 4.403	$0.10	4.51
Nov	2031	4.381	$ 0.066	$ 4.447	$0.10	4.55
Dec	2031	4.533	$ 0.082	$ 4.615	$0.11	4.72
Jan	2032	4.448	$ 0.106	$ 4.554	$0.11	4.66
Feb	2032	4.472	$ 0.077	$ 4.549	$0.11	4.65
Mar	2032	4.455	$ 0.050	$ 4.504	$0.10	4.61
Apr	2032	4.318	$ 0.026	$ 4.344	$0.10	4.45
May	2032	4.342	$ 0.069	$ 4.411	$0.10	4.51
Jun	2032	4.369	$ 0.095	$ 4.464	$0.10	4.57
Jul	2032	4.491	$ 0.136	$ 4.628	$0.11	4.74
Aug	2032	4.530	$ 0.159	$ 4.689	$0.11	4.80
Sep	2032	4.464	$ 0.091	$ 4.555	$0.11	4.66
Oct	2032	4.435	$ 0.088	$ 4.524	$0.11	4.63
Nov	2032	4.539	$ 0.053	$ 4.592	$0.11	4.70
Dec	2032	4.550	$ 0.072	$ 4.622	$0.11	4.73
Jan	2033	4.332	$ 0.093	$ 4.424	$0.10	4.53
Feb	2033	4.361	$ 0.091	$ 4.452	$0.10	4.56
Mar	2033	4.319	$ 0.022	$ 4.340	$0.10	4.44
Apr	2033	4.317	$ 0.016	$ 4.333	$0.10	4.43
May	2033	4.345	$ 0.032	$ 4.377	$0.10	4.48
Jun	2033	4.376	$ 0.080	$ 4.456	$0.10	4.56
Jul	2033	4.510	$ 0.119	$ 4.629	$0.11	4.74
Aug	2033	4.549	$ 0.127	$ 4.677	$0.11	4.79
Sep	2033	4.490	$ 0.068	$ 4.558	$0.11	4.66
Oct	2033	4.448	$ 0.053	$ 4.501	$0.10	4.61
Nov	2033	4.579	$ 0.033	$ 4.612	$0.11	4.72
Dec	2033	4.739	$ 0.047	$ 4.787	$0.11	4.90
Jan	2034	4.726	$ 0.080	$ 4.806	$0.11	4.92
Feb	2034	4.590	$ 0.056	$ 4.645	$0.11	4.75
Mar	2034	4.457	$ (0.008)	$ 4.450	$0.10	4.55
Apr	2034	4.404	$ 0.009	$ 4.413	$0.10	4.52
May	2034	4.433	$ 0.039	$ 4.472	$0.10	4.58
Jun	2034	4.462	$ 0.084	$ 4.546	$0.11	4.65
Jul	2034	4.676	$ 0.125	$ 4.801	$0.11	4.91
Aug	2034	4.712	$ 0.144	$ 4.856	$0.11	4.97
Sep	2034	4.623	$ 0.074	$ 4.697	$0.11	4.81
Oct	2034	4.509	$ 0.049	$ 4.558	$0.11	4.66
Nov	2034	4.704	$ 0.034	$ 4.738	$0.11	4.85
Dec	2034	4.869	$ 0.055	$ 4.924	$0.11	5.04
Jan	2035	4.897	$ 0.085	$ 4.983	$0.11	5.10
Feb	2035	4.922	$ 0.065	$ 4.987	$0.11	5.10
Mar	2035	4.772	$ 0.018	$ 4.791	$0.11	4.90
Apr	2035	4.557	$ 0.023	$ 4.580	$0.11	4.69
May	2035	4.586	$ 0.046	$ 4.632	$0.11	4.74
Jun	2035	4.615	$ 0.091	$ 4.706	$0.11	4.81
Jul	2035	4.853	$ 0.130	$ 4.983	$0.11	5.10
Aug	2035	4.894	$ 0.147	$ 5.031	$0.11	5.15
Sep	2035	4.802	$ 0.075	$ 4.877	$0.11	4.99
Oct	2035	4.679	$ 0.048	$ 4.727	$0.11	4.84
Nov	2035	4.716	$ 0.033	$ 4.752	$0.11	4.86
Dec	2035	4.850	$ 0.058	$ 4.908	$0.11	5.02
Jan	2036	4.798	$ 0.093	$ 4.891	$0.11	5.00
Feb	2036	4.819	$ 0.034	$ 4.853	$0.11	4.96
Mar	2036	4.738	$ 0.020	$ 4.758	$0.11	4.87
Apr	2036	4.553	$ 0.023	$ 4.575	$0.11	4.68
May	2036	4.581	$ 0.049	$ 4.631	$0.11	4.74
Jun	2036	4.615	$ 0.096	$ 4.711	$0.11	4.82
Jul	2036	4.751	$ 0.135	$ 4.886	$0.11	5.00
Aug	2036	4.785	$ 0.150	$ 4.935	$0.11	5.05
Sep	2036	4.762	$ 0.089	$ 4.851	$0.11	4.96
Oct	2036	4.730	$ 0.076	$ 4.806	$0.11	4.92
Nov	2036	4.794	$ 0.051	$ 4.845	$0.11	4.96
Dec	2036	5.013	$ 0.064	$ 5.077	$0.12	5.19
Jan	2037	5.030	$ 0.105	$ 5.135	$0.12	5.25
Feb	2037	5.061	$ 0.081	$ 5.143	$0.12	5.26
Mar	2037	4.986	$ 0.024	$ 5.011	$0.11	5.13
Apr	2037	4.842	$ 0.021	$ 4.863	$0.11	4.97
May	2037	4.872	$ 0.055	$ 4.927	$0.11	5.04
Jun	2037	4.971	$ 0.111	$ 5.032	$0.11	5.15
Jul	2037	5.132	$ 0.147	$ 5.279	$0.12	5.40
Aug	2037	5.166	$ 0.147	$ 5.312	$0.12	5.43
Sep	2037	5.090	$ 0.096	$ 5.190	$0.12	5.31
Oct	2037	5.039	$ 0.074	$ 5.113	$0.12	5.23
Nov	2037	5.103	$ 0.052	$ 5.155	$0.12	5.27
Dec	2037	5.116	$ 0.078	$ 5.194	$0.12	5.32
Jan	2038	5.338	$ 0.111	$ 5.449	$0.12	5.57
Feb	2038	5.371	$ 0.088	$ 5.459	$0.12	5.58
Mar	2038	5.288	$ 0.026	$ 5.314	$0.12	5.43
Apr	2038	5.108	$ 0.044	$ 5.152	$0.12	5.27
May	2038	5.139	$ 0.060	$ 5.199	$0.12	5.32
Jun	2038	5.176	$ 0.118	$ 5.294	$0.12	5.41
Jul	2038	5.323	$ 0.152	$ 5.475	$0.12	5.60
Aug	2038	5.361	$ 0.145	$ 5.506	$0.12	5.63
Sep	2038	5.240	$ 0.104	$ 5.344	$0.12	5.46
Oct	2038	5.187	$ 0.064	$ 5.251	$0.12	5.37
Nov	2038	5.273	$ 0.073	$ 5.347	$0.12	5.47
Dec	2038	5.462	$ 0.100	$ 5.562	$0.12	5.69
Jan	2039	5.479	$ 0.119	$ 5.598	$0.13	5.72
Feb	2039	5.513	$ 0.101	$ 5.614	$0.13	5.74
Mar	2039	5.381	$ 0.032	$ 5.413	$0.12	5.54
Apr	2039	5.038	$ 0.041	$ 5.077	$0.12	5.19
May	2039	5.065	$ 0.052	$ 5.117	$0.12	5.23
Jun	2039	5.097	$ 0.115	$ 5.212	$0.12	5.33
Jul	2039	5.149	$ 0.129	$ 5.277	$0.12	5.40
Aug	2039	5.594	$ 0.145	$ 5.740	$0.13	5.87
Sep	2039	5.570	$ 0.088	$ 5.658	$0.13	5.78
Oct	2039	5.363	$ 0.081	$ 5.444	$0.12	5.57
Nov	2039	5.424	$ 0.063	$ 5.487	$0.12	5.61
Dec	2039	5.500	$ 0.087	$ 5.677	$0.13	5.80
Jan	2040	5.450	$ 0.098	$ 5.648	$0.13	5.77
Feb	2040	5.579	$ 0.061	$ 5.640	$0.13	5.77
Mar	2040	5.488	$ 0.033	$ 5.521	$0.12	5.65
Apr	2040	5.306	$ 0.013	$ 5.320	$0.12	5.44
May	2040	5.337	$ 0.058	$ 5.395	$0.12	5.52
Jun	2040	5.383	$ 0.108	$ 5.490	$0.12	5.61
Jul	2040	5.580	$ 0.144	$ 5.724	$0.13	5.85
Aug	2040	5.614	$ 0.155	$ 5.768	$0.13	5.90
Sep	2040	5.602	$ 0.098	$ 5.701	$0.13	5.83
Oct	2040	5.477	$ 0.086	$ 5.563	$0.12	5.69
Nov	2040	5.535	$ 0.069	$ 5.604	$0.13	5.73
Dec	2040	5.724	$ 0.111	$ 5.836	$0.13	5.97
Jan	2041	5.766	$ 0.113	$ 5.879	$0.13	6.01
Feb	2041	5.788	$ 0.083	$ 5.871	$0.13	6.00
Mar	2041	5.665	$ 0.037	$ 5.702	$0.13	5.83
Apr	2041	5.459	$ 0.048	$ 5.506	$0.12	5.63
May	2041	5.492	$ 0.061	$ 5.553	$0.12	5.68
Jun	2041	5.551	$ 0.124	$ 5.674	$0.13	5.80
Jul	2041	5.794	$ 0.166	$ 5.961	$0.13	6.09
Aug	2041	5.829	$ 0.158	$ 5.987	$0.13	6.12
Sep	2041	5.831	$ 0.116	$ 5.947	$0.13	6.08
Oct	2041	5.639	$ 0.061	$ 5.700	$0.13	5.83
Nov	2041	5.725	$ 0.077	$ 5.820	$0.13	5.95
Dec	2041	5.905	$ 0.127	$ 6.033	$0.13	6.17
Jan	2042	5.890	$ 0.120	$ 6.010	$0.13	6.14
Feb	2042	5.914	$ 0.089	$ 6.003	$0.13	6.14
Mar	2042	5.789	$ 0.033	$ 5.822	$0.13	5.95
Apr	2042	5.827	$ 0.045	$ 5.872	$0.13	5.80
May	2042	5.997	$ 0.063	$ 5.725	$0.13	5.85
Jun	2042	5.717	$ 0.134	$ 5.851	$0.13	5.98
Jul	2042	6.009	$ 0.168	$ 6.176	$0.14	6.31
Aug	2042	6.046	$ 0.171	$ 6.217	$0.14	6.35
Sep	2042	6.026	$ 0.120	$ 6.147	$0.14	6.28
Oct	2042	5.820	$ 0.080	$ 5.900	$0.13	6.03
Nov	2042	5.852	$ 0.075	$ 5.927	$0.13	6.06
Dec	2042	6.037	$ 0.102	$ 6.139	$0.14	6.27
Jan	2043	6.007	$ 0.105	$ 6.112	$0.14	6.25
Feb	2043	6.026	$ 0.058	$ 6.085	$0.13	6.22
Mar	2043	5.909	$ 0.035	$ 5.944	$0.13	6.08
Apr	2043	5.704	$ 0.028	$ 5.732	$0.13	5.86
May	2043	5.739	$ 0.050	$ 5.789	$0.13	5.92
Jun	2043	5.782	$ 0.106	$ 5.888	$0.13	6.02
Jul	2043	6.064	$ 0.164	$ 6.229	$0.14	6.37
Aug	2043	6.101	$ 0.156	$ 6.257	$0.14	6.39
Sep	2043	6.170	$ 0.091	$ 6.211	$0.14	6.35
Oct	2043	5.892	$ 0.077	$ 5.969	$0.13	6.10
Nov	2043	5.943	$ 0.066	$ 6.010	$0.13	6.14
Dec	2043	6.136	$ 0.097	$ 6.233	$0.14	6.37
Jan	2044	6.152	$ 0.099	$ 6.251	$0.14	6.39
Feb	2044	6.179	$ 0.059	$ 6.238	$0.14	6.38
Mar	2044	6.050	$ 0.025	$ 6.075	$0.13	6.21
Apr	2044	5.939	$ 0.029	$ 5.968	$0.13	6.10
May	2044	5.974	$ 0.040	$ 6.013	$0.13	6.15
Jun	2044	6.010	$ 0.105	$ 6.115	$0.14	6.25
Jul	2044	6.285	$ 0.160	$ 6.446	$0.14	6.59
Aug	2044	6.324	$ 0.162	$ 6.486	$0.14	6.63
Sep	2044	6.312	$ 0.080	$ 6.393	$0.14	6.53
Oct	2044	6.153	$ 0.045	$ 6.198	$0.14	6.33
Nov	2044	6.248	$ 0.060	$ 6.308	$0.14	6.45
Dec	2044	6.442	$ 0.099	$ 6.541	$0.14	6.68
Jan	2045	6.424	$ 0.107	$ 6.531	$0.14	6.67
Feb	2045	6.462	$ 0.056	$ 6.518	$0.14	6.66
Mar	2045	6.358	$ 0.031	$ 6.390	$0.14	6.53
Apr	2045	6.212	$ 0.026	$ 6.238	$0.14	6.38
May	2045	6.245	$ 0.042	$ 6.287	$0.14	6.43
Jun	2045	6.283	$ 0.109	$ 6.393	$0.14	6.53
Jul	2045	6.574	$ 0.157	$ 6.731	$0.15	6.88
Aug	2045	6.615	$ 0.169	$ 6.784	$0.15	6.93
Sep	2045	6.627	$ 0.085	$ 6.711	$0.15	6.86
Oct	2045	6.429	$ 0.062	$ 6.492	$0.14	6.63
Nov	2045	6.534	$ 0.062	$ 6.596	$0.14	6.74
Dec	2045	6.728	$ 0.096	$ 6.824	$0.15	6.97
Jan	2046	6.739	$ 0.115	$ 6.854	$0.15	7.00
Feb	2046	6.760	$ 0.062	$ 6.821	$0.15	6.97
Mar	2046	6.602	$ 0.022	$ 6.624	$0.14	6.77
Apr	2046	6.418	$ 0.018	$ 6.436	$0.14	6.58
May	2046	6.446	$ 0.043	$ 6.489	$0.14	6.63
Jun	2046	6.484	$ 0.110	$ 6.594	$0.14	6.74
Jul	2046	6.815	$ 0.158	$ 6.973	$0.15	7.12
Aug	2046	6.858	$ 0.176	$ 7.034	$0.15	7.19
Sep	2046	6.836	$ 0.081	$ 6.917	$0.15	7.07
Oct	2046	6.620	$ 0.062	$ 6.682	$0.15	6.83
Nov	2046	6.680	$ 0.064	$ 6.745	$0.15	6.89
Dec	2046	6.855	$ 0.103	$ 6.959	$0.15	7.11
Jan	2047	6.873	$ 0.126	$ 6.999	$0.15	7.15
Feb	2047	6.885	$ 0.058	$ 6.943	$0.15	7.09
Mar	2047	6.640	$ 0.019	$ 6.659	$0.15	6.80
Apr	2047	6.485	$ 0.022	$ 6.507	$0.14	6.65
May	2047	6.511	$ 0.039	$ 6.550	$0.14	6.69
Jun	2047	6.549	$ 0.123	$ 6.673	$0.15	6.82
Jul	2047	6.870	$ 0.165	$ 7.035	$0.15	7.19
Aug	2047	6.913	$ 0.182	$ 7.096	$0.15	7.25
Sep	2047	6.910	$ 0.088	$ 6.998	$0.15	7.15
Oct	2047	6.787	$ 0.052	$ 6.839	$0.15	6.99
Nov	2047	6.947	$ 0.052	$ 6.899	$0.15	7.05
Dec	2047	6.874	$ 0.093	$ 6.967	$0.15	7.12
Jan	2048	6.803	$ 0.109	$ 6.912	$0.15	7.06
Feb	2048	6.836	$ 0.036	$ 6.872	$0.15	7.02
Mar	2048	6.682	$ 0.007	$ 6.689	$0.15	6.84
Apr	2048	6.585	$ 0.022	$ 6.607	$0.14	6.75
May	2048	6.623	$ 0.032	$ 6.655	$0.15	6.80
Jun	2048	6.691	$ 0.099	$ 6.790	$0.15	6.94

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	GSNG MMBTU Variable Cost	GSNG Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.040)	$ 3.064	$0.13	3.20
Feb	2019	2.690	$ (0.019)	$ 2.671	$0.12	2.79
Mar	2019	2.950	$ (0.003)	$ 2.947	$0.13	3.08
Apr	2019	2.650	$ (0.001)	$ 2.649	$0.12	2.77
May	2019	2.640	$ 0.005	$ 2.645	$0.12	2.76
Jun	2019	2.400	$ 0.037	$ 2.437	$0.11	2.55
Jul	2019	2.370	$ 0.048	$ 2.418	$0.11	2.53
Aug	2019	2.220	$ 0.056	$ 2.276	$0.11	2.38
Sep	2019	2.560	$ 0.016	$ 2.576	$0.12	2.69
Oct	2019	2.743	$ 0.010	$ 2.753	$0.12	2.87
Nov	2019	2.303	$ 0.012	$ 2.315	$0.11	2.42
Dec	2019	2.495	$ 0.023	$ 2.518	$0.11	2.63
Jan	2020	2.612	$ 0.035	$ 2.647	$0.12	2.77
Feb	2020	2.575	$ 0.024	$ 2.599	$0.12	2.72
Mar	2020	2.462	$ (0.020)	$ 2.442	$0.11	2.55
Apr	2020	2.247	$ (0.019)	$ 2.228	$0.10	2.33
May	2020	2.234	$ 0.005	$ 2.239	$0.10	2.34
Jun	2020	2.278	$ 0.026	$ 2.304	$0.11	2.41
Jul	2020	2.326	$ 0.048	$ 2.374	$0.11	2.48
Aug	2020	2.335	$ 0.055	$ 2.390	$0.11	2.50
Sep	2020	2.318	$ 0.012	$ 2.330	$0.11	2.44
Oct	2020	2.344	$ 0.016	$ 2.360	$0.11	2.47
Nov	2020	2.409	$ 0.025	$ 2.434	$0.11	2.54
Dec	2020	2.578	$ 0.034	$ 2.612	$0.12	2.73
Jan	2021	2.700	$ 0.038	$ 2.738	$0.12	2.86
Feb	2021	2.661	$ 0.033	$ 2.694	$0.12	2.81
Mar	2021	2.548	$ (0.015)	$ 2.533	$0.11	2.65
Apr	2021	2.284	$ (0.021)	$ 2.263	$0.10	2.37
May	2021	2.360	$ 0.005	$ 2.265	$0.10	2.37
Jun	2021	2.294	$ 0.025	$ 2.319	$0.11	2.43
Jul	2021	2.332	$ 0.047	$ 2.379	$0.11	2.49
Aug	2021	2.339	$ 0.058	$ 2.397	$0.11	2.51
Sep	2021	2.328	$ 0.011	$ 2.339	$0.11	2.45
Oct	2021	2.354	$ 0.018	$ 2.372	$0.11	2.48
Nov	2021	2.424	$ 0.027	$ 2.451	$0.11	2.56
Dec	2021	2.603	$ 0.038	$ 2.641	$0.12	2.76
Jan	2022	2.729	$ 0.041	$ 2.770	$0.12	2.89
Feb	2022	2.702	$ 0.036	$ 2.738	$0.12	2.86
Mar	2022	2.595	$ (0.013)	$ 2.582	$0.12	2.70
Apr	2022	2.340	$ (0.016)	$ 2.324	$0.11	2.43
May	2022	2.324	$ 0.007	$ 2.331	$0.11	2.44
Jun	2022	2.359	$ 0.034	$ 2.393	$0.11	2.50
Jul	2022	2.399	$ 0.059	$ 2.458	$0.11	2.57
Aug	2022	2.411	$ 0.066	$ 2.477	$0.11	2.59
Sep	2022	2.404	$ 0.021	$ 2.425	$0.11	2.54
Oct	2022	2.430	$ 0.024	$ 2.454	$0.11	2.57
Nov	2022	2.492	$ 0.034	$ 2.526	$0.11	2.64
Dec	2022	2.674	$ 0.044	$ 2.718	$0.12	2.84
Jan	2023	2.799	$ 0.052	$ 2.851	$0.13	2.98
Feb	2023	2.767	$ 0.047	$ 2.814	$0.12	2.94
Mar	2023	2.650	$ (0.003)	$ 2.653	$0.12	2.77
Apr	2023	2.401	$ (0.008)	$ 2.393	$0.11	2.50
May	2023	2.385	$ 0.016	$ 2.401	$0.11	2.51
Jun	2023	2.426	$ 0.042	$ 2.468	$0.11	2.58
Jul	2023	2.466	$ 0.068	$ 2.534	$0.11	2.65
Aug	2023	2.481	$ 0.076	$ 2.557	$0.11	2.67
Sep	2023	2.474	$ 0.029	$ 2.505	$0.11	2.62
Oct	2023	2.505	$ 0.030	$ 2.535	$0.11	2.65
Nov	2023	2.580	$ 0.037	$ 2.617	$0.12	2.73
Dec	2023	2.760	$ 0.053	$ 2.813	$0.12	2.94
Jan	2024	2.883	$ 0.058	$ 2.941	$0.13	3.07
Feb	2024	2.854	$ 0.050	$ 2.903	$0.13	3.03
Mar	2024	2.742	$ (0.002)	$ 2.740	$0.12	2.86
Apr	2024	2.511	$ (0.007)	$ 2.503	$0.11	2.62
May	2024	2.501	$ 0.017	$ 2.519	$0.11	2.63
Jun	2024	2.537	$ 0.046	$ 2.583	$0.12	2.70
Jul	2024	2.579	$ 0.077	$ 2.656	$0.12	2.77
Aug	2024	2.594	$ 0.077	$ 2.671	$0.12	2.79
Sep	2024	2.590	$ 0.047	$ 2.636	$0.12	2.75
Oct	2024	2.611	$ 0.040	$ 2.651	$0.12	2.77
Nov	2024	2.687	$ 0.044	$ 2.731	$0.12	2.85
Dec	2024	2.860	$ 0.056	$ 2.916	$0.13	3.04
Jan	2025	2.961	$ 0.061	$ 3.022	$0.13	3.15
Feb	2025	2.947	$ 0.055	$ 3.003	$0.13	3.13
Mar	2025	2.864	$ (0.001)	$ 2.863	$0.13	2.99
Apr	2025	2.688	$ (0.011)	$ 2.677	$0.12	2.80
May	2025	2.692	$ 0.016	$ 2.707	$0.12	2.83
Jun	2025	2.727	$ 0.054	$ 2.781	$0.12	2.90
Jul	2025	2.807	$ 0.078	$ 2.886	$0.13	3.01
Aug	2025	2.831	$ 0.078	$ 2.908	$0.13	3.04
Sep	2025	2.739	$ 0.045	$ 2.784	$0.12	2.91
Oct	2025	2.754	$ 0.035	$ 2.789	$0.12	2.91
Nov	2025	2.829	$ 0.036	$ 2.865	$0.13	2.99
Dec	2025	2.987	$ 0.051	$ 3.038	$0.13	3.17
Jan	2026	3.084	$ 0.057	$ 3.140	$0.14	3.28
Feb	2026	3.076	$ 0.053	$ 3.129	$0.13	3.26
Mar	2026	2.994	$ (0.003)	$ 2.991	$0.13	3.12
Apr	2026	2.857	$ (0.001)	$ 2.856	$0.13	2.98
May	2026	2.868	$ 0.022	$ 2.890	$0.13	3.02
Jun	2026	2.914	$ 0.053	$ 2.967	$0.13	3.10
Jul	2026	3.053	$ 0.077	$ 3.130	$0.13	3.26
Aug	2026	3.085	$ 0.078	$ 3.163	$0.14	3.30
Sep	2026	3.022	$ 0.041	$ 3.063	$0.13	3.20
Oct	2026	3.013	$ 0.034	$ 3.047	$0.13	3.18
Nov	2026	3.078	$ 0.042	$ 3.120	$0.13	3.25
Dec	2026	3.243	$ 0.054	$ 3.297	$0.14	3.44
Jan	2027	3.321	$ 0.062	$ 3.383	$0.14	3.53
Feb	2027	3.333	$ 0.057	$ 3.390	$0.14	3.53
Mar	2027	3.278	$ (0.002)	$ 3.276	$0.14	3.42
Apr	2027	3.125	$ (0.002)	$ 3.123	$0.13	3.26
May	2027	3.145	$ 0.021	$ 3.166	$0.14	3.30
Jun	2027	3.207	$ 0.051	$ 3.258	$0.14	3.40
Jul	2027	3.410	$ 0.079	$ 3.489	$0.15	3.64
Aug	2027	3.447	$ 0.082	$ 3.529	$0.15	3.68
Sep	2027	3.434	$ 0.043	$ 3.477	$0.15	3.62
Oct	2027	3.325	$ 0.038	$ 3.364	$0.14	3.51
Nov	2027	3.457	$ 0.043	$ 3.435	$0.15	3.58
Dec	2027	3.568	$ 0.054	$ 3.622	$0.15	3.77
Jan	2028	3.556	$ 0.063	$ 3.618	$0.15	3.77
Feb	2028	3.576	$ 0.047	$ 3.623	$0.15	3.77
Mar	2028	3.501	$ (0.002)	$ 3.498	$0.15	3.65
Apr	2028	3.454	$ (0.006)	$ 3.448	$0.15	3.59
May	2028	3.483	$ 0.024	$ 3.506	$0.15	3.65
Jun	2028	3.644	$ 0.059	$ 3.703	$0.15	3.86
Jul	2028	3.656	$ 0.091	$ 3.747	$0.16	3.90
Aug	2028	3.699	$ 0.089	$ 3.788	$0.16	3.95
Sep	2028	3.748	$ 0.048	$ 3.795	$0.16	3.95
Oct	2028	3.729	$ 0.044	$ 3.772	$0.16	3.93
Nov	2028	3.780	$ 0.046	$ 3.826	$0.16	3.98
Dec	2028	4.008	$ 0.054	$ 4.062	$0.17	4.23
Jan	2029	4.026	$ 0.075	$ 4.102	$0.17	4.27
Feb	2029	4.051	$ 0.068	$ 4.120	$0.17	4.29
Mar	2029	3.865	$ 0.007	$ 3.873	$0.16	4.03
Apr	2029	3.878	$ 0.002	$ 3.880	$0.16	4.04
May	2029	3.934	$ 0.027	$ 3.961	$0.16	4.12
Jun	2029	4.041	$ 0.062	$ 4.102	$0.17	4.27
Jul	2029	3.805	$ 0.091	$ 3.896	$0.16	4.06
Aug	2029	3.833	$ 0.098	$ 3.931	$0.16	4.09
Sep	2029	3.935	$ 0.053	$ 3.988	$0.16	4.15
Oct	2029	3.926	$ 0.040	$ 3.967	$0.16	4.13
Nov	2029	3.843	$ 0.063	$ 3.906	$0.16	4.07
Dec	2029	4.020	$ 0.062	$ 4.083	$0.17	4.25
Jan	2030	4.004	$ 0.075	$ 4.079	$0.17	4.25
Feb	2030	4.029	$ 0.069	$ 4.098	$0.17	4.27
Mar	2030	3.934	$ 0.004	$ 3.937	$0.16	4.10
Apr	2030	3.906	$ (0.008)	$ 3.898	$0.16	4.06
May	2030	3.929	$ 0.029	$ 3.959	$0.16	4.12
Jun	2030	3.994	$ 0.069	$ 4.062	$0.17	4.23
Jul	2030	4.277	$ 0.104	$ 4.380	$0.18	4.56
Aug	2030	4.308	$ 0.113	$ 4.421	$0.18	4.60
Sep	2030	4.245	$ 0.056	$ 4.301	$0.18	4.48
Oct	2030	4.053	$ 0.053	$ 4.106	$0.17	4.27
Nov	2030	3.979	$ 0.056	$ 4.035	$0.17	4.20
Dec	2030	4.172	$ 0.064	$ 4.237	$0.17	4.41
Jan	2031	4.225	$ 0.098	$ 4.322	$0.18	4.50
Feb	2031	4.251	$ 0.092	$ 4.344	$0.18	4.52
Mar	2031	4.167	$ 0.019	$ 4.187	$0.17	4.36
Apr	2031	4.197	$ 0.000	$ 4.132	$0.17	4.30
May	2031	4.158	$ 0.055	$ 4.213	$0.17	4.39
Jun	2031	4.214	$ 0.082	$ 4.296	$0.18	4.47
Jul	2031	4.499	$ 0.116	$ 4.615	$0.19	4.80
Aug	2031	4.544	$ 0.139	$ 4.683	$0.19	4.87
Sep	2031	4.460	$ 0.086	$ 4.546	$0.18	4.73
Oct	2031	4.321	$ 0.082	$ 4.403	$0.18	4.58
Nov	2031	4.381	$ 0.066	$ 4.447	$0.18	4.63
Dec	2031	4.533	$ 0.082	$ 4.615	$0.19	4.80
Jan	2032	4.449	$ 0.106	$ 4.554	$0.18	4.74
Feb	2032	4.472	$ 0.077	$ 4.549	$0.18	4.73
Mar	2032	4.455	$ 0.050	$ 4.504	$0.18	4.69
Apr	2032	4.318	$ 0.026	$ 4.344	$0.18	4.52
May	2032	4.342	$ 0.069	$ 4.411	$0.18	4.59
Jun	2032	4.369	$ 0.095	$ 4.464	$0.18	4.65
Jul	2032	4.491	$ 0.136	$ 4.628	$0.19	4.81
Aug	2032	4.530	$ 0.159	$ 4.689	$0.19	4.88
Sep	2032	4.464	$ 0.091	$ 4.555	$0.18	4.74
Oct	2032	4.435	$ 0.088	$ 4.524	$0.18	4.71
Nov	2032	4.539	$ 0.053	$ 4.592	$0.19	4.78
Dec	2032	4.550	$ 0.072	$ 4.622	$0.19	4.81
Jan	2033	4.332	$ 0.093	$ 4.424	$0.18	4.60
Feb	2033	4.361	$ 0.091	$ 4.452	$0.18	4.63
Mar	2033	4.319	$ 0.022	$ 4.340	$0.18	4.52
Apr	2033	4.317	$ 0.016	$ 4.333	$0.18	4.51
May	2033	4.345	$ 0.032	$ 4.377	$0.18	4.56
Jun	2033	4.376	$ 0.080	$ 4.456	$0.18	4.64
Jul	2033	4.510	$ 0.119	$ 4.629	$0.19	4.82
Aug	2033	4.549	$ 0.127	$ 4.677	$0.19	4.87
Sep	2033	4.490	$ 0.068	$ 4.558	$0.18	4.74
Oct	2033	4.448	$ 0.053	$ 4.501	$0.18	4.68
Nov	2033	4.579	$ 0.033	$ 4.612	$0.19	4.80
Dec	2033	4.739	$ 0.047	$ 4.787	$0.19	4.98
Jan	2034	4.726	$ 0.080	$ 4.806	$0.19	5.00
Feb	2034	4.595	$ 0.056	$ 4.645	$0.19	4.83
Mar	2034	4.457	$ (0.008)	$ 4.450	$0.18	4.63
Apr	2034	4.404	$ 0.009	$ 4.413	$0.18	4.59
May	2034	4.433	$ 0.039	$ 4.472	$0.18	4.65
Jun	2034	4.462	$ 0.084	$ 4.546	$0.18	4.73
Jul	2034	4.676	$ 0.125	$ 4.801	$0.19	4.99
Aug	2034	4.712	$ 0.144	$ 4.856	$0.19	5.05
Sep	2034	4.623	$ 0.074	$ 4.697	$0.19	4.89
Oct	2034	4.509	$ 0.049	$ 4.558	$0.18	4.74
Nov	2034	4.704	$ 0.034	$ 4.738	$0.19	4.93
Dec	2034	4.869	$ 0.055	$ 4.924	$0.20	5.12
Jan	2035	4.897	$ 0.086	$ 4.983	$0.20	5.18
Feb	2035	4.922	$ 0.065	$ 4.987	$0.20	5.19
Mar	2035	4.772	$ 0.018	$ 4.791	$0.19	4.98
Apr	2035	4.557	$ 0.023	$ 4.580	$0.19	4.77
May	2035	4.585	$ 0.046	$ 4.632	$0.19	4.82
Jun	2035	4.615	$ 0.091	$ 4.706	$0.19	4.90
Jul	2035	4.853	$ 0.130	$ 4.983	$0.20	5.18
Aug	2035	4.884	$ 0.147	$ 5.031	$0.20	5.23
Sep	2035	4.897	$ 0.075	$ 4.877	$0.20	5.07
Oct	2035	4.679	$ 0.048	$ 4.727	$0.19	4.92
Nov	2035	4.719	$ 0.033	$ 4.752	$0.19	4.94
Dec	2035	4.993	$ 0.058	$ 4.908	$0.20	5.10
Jan	2036	4.798	$ 0.093	$ 4.891	$0.20	5.09
Feb	2036	4.819	$ 0.034	$ 4.853	$0.19	5.05
Mar	2036	4.738	$ 0.020	$ 4.758	$0.19	4.95
Apr	2036	4.553	$ 0.023	$ 4.575	$0.18	4.76
May	2036	4.581	$ 0.049	$ 4.631	$0.19	4.82
Jun	2036	4.615	$ 0.096	$ 4.711	$0.19	4.90
Jul	2036	4.751	$ 0.135	$ 4.886	$0.20	5.08
Aug	2036	4.785	$ 0.150	$ 4.935	$0.20	5.13
Sep	2036	4.762	$ 0.089	$ 4.851	$0.19	5.05
Oct	2036	4.730	$ 0.076	$ 4.806	$0.19	5.00
Nov	2036	4.794	$ 0.051	$ 4.845	$0.19	5.04
Dec	2036	5.013	$ 0.064	$ 5.077	$0.20	5.28
Jan	2037	5.030	$ 0.105	$ 5.135	$0.20	5.34
Feb	2037	5.061	$ 0.081	$ 5.143	$0.20	5.35
Mar	2037	4.986	$ 0.024	$ 5.011	$0.20	5.21
Apr	2037	4.842	$ 0.021	$ 4.863	$0.19	5.06
May	2037	4.872	$ 0.055	$ 4.927	$0.20	5.12
Jun	2037	4.921	$ 0.111	$ 5.032	$0.20	5.23
Jul	2037	5.132	$ 0.147	$ 5.279	$0.21	5.49
Aug	2037	5.168	$ 0.147	$ 5.312	$0.21	5.52
Sep	2037	5.095	$ 0.096	$ 5.190	$0.21	5.40
Oct	2037	5.039	$ 0.074	$ 5.113	$0.20	5.32
Nov	2037	5.103	$ 0.052	$ 5.155	$0.20	5.36
Dec	2037	5.316	$ 0.078	$ 5.394	$0.21	5.61
Jan	2038	5.338	$ 0.111	$ 5.449	$0.22	5.66
Feb	2038	5.371	$ 0.088	$ 5.459	$0.22	5.67
Mar	2038	5.288	$ 0.026	$ 5.314	$0.21	5.52
Apr	2038	5.108	$ 0.044	$ 5.152	$0.20	5.36
May	2038	5.139	$ 0.060	$ 5.199	$0.21	5.41
Jun	2038	5.176	$ 0.118	$ 5.294	$0.21	5.50
Jul	2038	5.323	$ 0.152	$ 5.475	$0.22	5.69
Aug	2038	5.361	$ 0.145	$ 5.506	$0.22	5.72
Sep	2038	5.240	$ 0.104	$ 5.344	$0.21	5.56
Oct	2038	5.187	$ 0.064	$ 5.251	$0.21	5.46
Nov	2038	5.273	$ 0.073	$ 5.347	$0.21	5.56
Dec	2038	5.462	$ 0.100	$ 5.562	$0.22	5.78
Jan	2039	5.479	$ 0.119	$ 5.598	$0.22	5.82
Feb	2039	5.513	$ 0.101	$ 5.614	$0.22	5.83
Mar	2039	5.381	$ 0.032	$ 5.413	$0.21	5.63
Apr	2039	5.036	$ 0.041	$ 5.077	$0.20	5.28
May	2039	5.065	$ 0.052	$ 5.117	$0.20	5.32
Jun	2039	5.097	$ 0.115	$ 5.212	$0.21	5.42
Jul	2039	5.149	$ 0.129	$ 5.277	$0.21	5.49
Aug	2039	5.094	$ 0.145	$ 5.740	$0.23	5.97
Sep	2039	5.570	$ 0.088	$ 5.658	$0.22	5.88
Oct	2039	5.363	$ 0.081	$ 5.444	$0.21	5.66
Nov	2039	5.414	$ 0.083	$ 5.497	$0.22	5.70
Dec	2039	5.590	$ 0.087	$ 5.677	$0.22	5.90
Jan	2040	5.550	$ 0.098	$ 5.648	$0.22	5.87
Feb	2040	5.579	$ 0.061	$ 5.640	$0.22	5.86
Mar	2040	5.488	$ 0.033	$ 5.521	$0.22	5.74
Apr	2040	5.306	$ 0.013	$ 5.320	$0.21	5.53
May	2040	5.337	$ 0.058	$ 5.395	$0.21	5.61
Jun	2040	5.383	$ 0.108	$ 5.490	$0.22	5.71
Jul	2040	5.580	$ 0.144	$ 5.724	$0.22	5.95
Aug	2040	5.614	$ 0.155	$ 5.768	$0.23	5.99
Sep	2040	5.602	$ 0.098	$ 5.701	$0.22	5.92
Oct	2040	5.477	$ 0.086	$ 5.563	$0.22	5.78
Nov	2040	5.535	$ 0.069	$ 5.604	$0.22	5.82
Dec	2040	5.724	$ 0.111	$ 5.836	$0.23	6.06
Jan	2041	5.766	$ 0.113	$ 5.879	$0.23	6.11
Feb	2041	5.788	$ 0.083	$ 5.871	$0.23	6.10
Mar	2041	5.665	$ 0.037	$ 5.702	$0.22	5.93
Apr	2041	5.459	$ 0.048	$ 5.506	$0.22	5.72
May	2041	5.492	$ 0.061	$ 5.553	$0.22	5.77
Jun	2041	5.551	$ 0.124	$ 5.674	$0.22	5.90
Jul	2041	5.794	$ 0.166	$ 5.961	$0.23	6.19
Aug	2041	5.829	$ 0.158	$ 5.987	$0.23	6.22
Sep	2041	5.671	$ 0.116	$ 5.947	$0.23	6.18
Oct	2041	5.639	$ 0.061	$ 5.700	$0.22	5.92
Nov	2041	5.743	$ 0.077	$ 5.820	$0.23	6.05
Dec	2041	5.906	$ 0.127	$ 6.033	$0.24	6.27
Jan	2042	5.890	$ 0.120	$ 6.010	$0.23	6.24
Feb	2042	5.914	$ 0.089	$ 6.003	$0.23	6.24
Mar	2042	5.789	$ 0.033	$ 5.822	$0.23	6.05
Apr	2042	5.627	$ 0.045	$ 5.672	$0.22	5.89
May	2042	5.662	$ 0.063	$ 5.725	$0.22	5.95
Jun	2042	5.717	$ 0.134	$ 5.851	$0.23	6.08
Jul	2042	6.009	$ 0.168	$ 6.176	$0.24	6.42
Aug	2042	6.046	$ 0.171	$ 6.217	$0.24	6.46
Sep	2042	6.026	$ 0.120	$ 6.147	$0.24	6.39
Oct	2042	5.820	$ 0.080	$ 5.900	$0.23	6.13
Nov	2042	5.852	$ 0.075	$ 5.927	$0.23	6.16
Dec	2042	6.037	$ 0.102	$ 6.139	$0.24	6.38
Jan	2043	6.007	$ 0.105	$ 6.112	$0.24	6.35
Feb	2043	6.026	$ 0.059	$ 6.085	$0.24	6.32
Mar	2043	5.909	$ 0.035	$ 5.944	$0.23	6.18
Apr	2043	5.704	$ 0.028	$ 5.732	$0.22	5.96
May	2043	5.739	$ 0.050	$ 5.789	$0.23	6.02
Jun	2043	5.782	$ 0.106	$ 5.888	$0.23	6.12
Jul	2043	6.064	$ 0.164	$ 6.229	$0.24	6.47
Aug	2043	6.101	$ 0.156	$ 6.257	$0.24	6.50
Sep	2043	6.120	$ 0.091	$ 6.211	$0.24	6.45
Oct	2043	5.969	$ 0.077	$ 5.969	$0.23	6.20
Nov	2043	5.943	$ 0.066	$ 6.010	$0.23	6.24
Dec	2043	6.136	$ 0.097	$ 6.233	$0.24	6.48
Jan	2044	6.152	$ 0.099	$ 6.251	$0.24	6.49
Feb	2044	6.179	$ 0.059	$ 6.238	$0.24	6.48
Mar	2044	6.050	$ 0.025	$ 6.075	$0.24	6.31
Apr	2044	5.970	$ 0.029	$ 5.998	$0.23	6.20
May	2044	5.974	$ 0.040	$ 6.013	$0.23	6.25
Jun	2044	6.010	$ 0.105	$ 6.115	$0.24	6.35
Jul	2044	6.286	$ 0.160	$ 6.446	$0.25	6.70
Aug	2044	6.324	$ 0.162	$ 6.486	$0.25	6.74
Sep	2044	6.312	$ 0.080	$ 6.393	$0.25	6.64
Oct	2044	6.153	$ 0.045	$ 6.198	$0.24	6.44
Nov	2044	6.248	$ 0.060	$ 6.308	$0.24	6.55
Dec	2044	6.442	$ 0.099	$ 6.541	$0.25	6.79
Jan	2045	6.424	$ 0.107	$ 6.531	$0.25	6.78
Feb	2045	6.462	$ 0.056	$ 6.518	$0.25	6.77
Mar	2045	6.358	$ 0.031	$ 6.390	$0.25	6.64
Apr	2045	6.212	$ 0.026	$ 6.238	$0.24	6.48
May	2045	6.245	$ 0.042	$ 6.287	$0.24	6.53
Jun	2045	6.283	$ 0.109	$ 6.393	$0.25	6.64
Jul	2045	6.574	$ 0.157	$ 6.731	$0.26	6.99
Aug	2045	6.615	$ 0.169	$ 6.784	$0.26	7.05
Sep	2045	6.627	$ 0.085	$ 6.711	$0.26	6.97
Oct	2045	6.430	$ 0.062	$ 6.492	$0.25	6.74
Nov	2045	6.574	$ 0.062	$ 6.596	$0.25	6.85
Dec	2045	6.728	$ 0.096	$ 6.824	$0.26	7.09
Jan	2046	6.739	$ 0.115	$ 6.854	$0.26	7.12
Feb	2046	6.760	$ 0.062	$ 6.821	$0.26	7.08
Mar	2046	6.602	$ 0.022	$ 6.624	$0.26	6.88
Apr	2046	6.418	$ 0.018	$ 6.436	$0.25	6.69
May	2046	6.446	$ 0.043	$ 6.489	$0.25	6.74
Jun	2046	6.484	$ 0.110	$ 6.594	$0.25	6.85
Jul	2046	6.815	$ 0.158	$ 6.973	$0.27	7.24
Aug	2046	6.958	$ 0.176	$ 7.034	$0.27	7.30
Sep	2046	6.836	$ 0.081	$ 6.917	$0.27	7.18
Oct	2046	6.620	$ 0.062	$ 6.682	$0.26	6.94
Nov	2046	6.680	$ 0.064	$ 6.745	$0.26	7.01
Dec	2046	6.855	$ 0.103	$ 6.959	$0.27	7.23
Jan	2047	6.873	$ 0.126	$ 6.999	$0.27	7.27
Feb	2047	6.885	$ 0.058	$ 6.943	$0.27	7.21
Mar	2047	6.640	$ 0.019	$ 6.659	$0.26	6.92
Apr	2047	6.485	$ 0.022	$ 6.507	$0.25	6.76
May	2047	6.511	$ 0.039	$ 6.550	$0.25	6.80
Jun	2047	6.549	$ 0.123	$ 6.673	$0.26	6.93
Jul	2047	6.870	$ 0.165	$ 7.035	$0.27	7.31
Aug	2047	6.913	$ 0.182	$ 7.096	$0.27	7.37
Sep	2047	6.910	$ 0.088	$ 6.998	$0.27	7.27
Oct	2047	6.787	$ 0.052	$ 6.839	$0.26	7.10
Nov	2047	6.847	$ 0.052	$ 6.899	$0.27	7.16
Dec	2047	6.874	$ 0.093	$ 6.967	$0.27	7.23
Jan	2048	6.803	$ 0.109	$ 6.912	$0.27	7.18
Feb	2048	6.836	$ 0.036	$ 6.872	$0.26	7.14
Mar	2048	6.687	$ 0.007	$ 6.689	$0.26	6.95
Apr	2048	6.585	$ 0.022	$ 6.607	$0.26	6.86
May	2048	6.622	$ 0.032	$ 6.655	$0.26	6.91
Jun	2048	6.691	$ 0.099	$ 6.790	$0.26	7.05

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis FGT Z3	Base Cost Regular Supply Z3	GSNG MMBTU Variable Cost	GSNG Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.046)	$ 3.064	$0.91	3.97
Feb	2019	2.690	$ (0.019)	$ 2.671	$0.90	3.57
Mar	2019	2.950	$ (0.003)	$ 2.947	$0.90	3.85
Apr	2019	2.650	$ (0.001)	$ 2.649	$0.90	3.55
May	2019	2.640	$ 0.005	$ 2.645	$0.90	3.54
Jun	2019	2.400	$ 0.037	$ 2.437	$0.89	3.33
Jul	2019	2.370	$ 0.048	$ 2.418	$0.89	3.31
Aug	2019	2.220	$ 0.056	$ 2.276	$0.89	3.17
Sep	2019	2.560	$ 0.016	$ 2.576	$0.90	3.47
Oct	2019	2.743	$ 0.010	$ 2.753	$0.90	3.65
Nov	2019	2.303	$ 0.012	$ 2.315	$0.89	3.21
Dec	2019	2.495	$ 0.023	$ 2.518	$0.90	3.41
Jan	2020	2.612	$ 0.035	$ 2.647	$0.90	3.55
Feb	2020	2.575	$ 0.024	$ 2.599	$0.90	3.50
Mar	2020	2.462	$ (0.020)	$ 2.442	$0.89	3.34
Apr	2020	2.247	$ (0.019)	$ 2.228	$0.89	3.12
May	2020	2.234	$ 0.005	$ 2.239	$0.89	3.13
Jun	2020	2.278	$ 0.026	$ 2.304	$0.89	3.20
Jul	2020	2.326	$ 0.048	$ 2.374	$0.89	3.27
Aug	2020	2.335	$ 0.055	$ 2.390	$0.89	3.28
Sep	2020	2.318	$ 0.012	$ 2.330	$0.89	3.22
Oct	2020	2.344	$ 0.016	$ 2.360	$0.89	3.25
Nov	2020	2.409	$ 0.025	$ 2.434	$0.89	3.33
Dec	2020	2.578	$ 0.034	$ 2.612	$0.90	3.51
Jan	2021	2.700	$ 0.038	$ 2.738	$0.90	3.64
Feb	2021	2.661	$ 0.033	$ 2.694	$0.90	3.59
Mar	2021	2.548	$ (0.015)	$ 2.533	$0.90	3.43
Apr	2021	2.284	$ (0.021)	$ 2.263	$0.89	3.15
May	2021	2.260	$ 0.005	$ 2.265	$0.89	3.16
Jun	2021	2.294	$ 0.025	$ 2.319	$0.89	3.21
Jul	2021	2.332	$ 0.047	$ 2.379	$0.89	3.27
Aug	2021	2.339	$ 0.058	$ 2.397	$0.89	3.29
Sep	2021	2.328	$ 0.011	$ 2.339	$0.89	3.23
Oct	2021	2.354	$ 0.018	$ 2.372	$0.89	3.26
Nov	2021	2.424	$ 0.027	$ 2.451	$0.89	3.35
Dec	2021	2.603	$ 0.038	$ 2.641	$0.90	3.54
Jan	2022	2.729	$ 0.041	$ 2.770	$0.90	3.67
Feb	2022	2.702	$ 0.036	$ 2.738	$0.90	3.64
Mar	2022	2.595	$ (0.013)	$ 2.582	$0.90	3.48
Apr	2022	2.340	$ (0.016)	$ 2.324	$0.89	3.22
May	2022	2.324	$ 0.007	$ 2.331	$0.89	3.22
Jun	2022	2.359	$ 0.034	$ 2.393	$0.89	3.29
Jul	2022	2.399	$ 0.059	$ 2.458	$0.89	3.35
Aug	2022	2.411	$ 0.066	$ 2.477	$0.89	3.37
Sep	2022	2.404	$ 0.021	$ 2.425	$0.89	3.32
Oct	2022	2.430	$ 0.024	$ 2.454	$0.89	3.35
Nov	2022	2.492	$ 0.034	$ 2.526	$0.90	3.42
Dec	2022	2.674	$ 0.044	$ 2.718	$0.90	3.62
Jan	2023	2.799	$ 0.052	$ 2.851	$0.90	3.75
Feb	2023	2.767	$ 0.047	$ 2.814	$0.90	3.72
Mar	2023	2.650	$ (0.003)	$ 2.653	$0.90	3.55
Apr	2023	2.401	$ (0.008)	$ 2.393	$0.89	3.29
May	2023	2.385	$ 0.016	$ 2.401	$0.89	3.29
Jun	2023	2.426	$ 0.042	$ 2.468	$0.89	3.36
Jul	2023	2.466	$ 0.068	$ 2.534	$0.90	3.43
Aug	2023	2.481	$ 0.076	$ 2.557	$0.90	3.45
Sep	2023	2.476	$ 0.029	$ 2.505	$0.90	3.40
Oct	2023	2.505	$ 0.030	$ 2.535	$0.90	3.43
Nov	2023	2.580	$ 0.037	$ 2.617	$0.90	3.51
Dec	2023	2.760	$ 0.053	$ 2.813	$0.90	3.71
Jan	2024	2.883	$ 0.058	$ 2.941	$0.90	3.84
Feb	2024	2.854	$ 0.050	$ 2.903	$0.90	3.81
Mar	2024	2.742	$ (0.002)	$ 2.740	$0.90	3.64
Apr	2024	2.511	$ (0.007)	$ 2.503	$0.90	3.40
May	2024	2.501	$ 0.017	$ 2.519	$0.90	3.41
Jun	2024	2.537	$ 0.046	$ 2.583	$0.90	3.48
Jul	2024	2.579	$ 0.077	$ 2.656	$0.90	3.56
Aug	2024	2.594	$ 0.077	$ 2.671	$0.90	3.57
Sep	2024	2.590	$ 0.047	$ 2.636	$0.90	3.53
Oct	2024	2.651	$ 0.040	$ 2.691	$0.90	3.55
Nov	2024	2.687	$ 0.044	$ 2.731	$0.90	3.63
Dec	2024	2.860	$ 0.056	$ 2.916	$0.90	3.82
Jan	2025	2.961	$ 0.061	$ 3.022	$0.91	3.93
Feb	2025	2.947	$ 0.055	$ 3.003	$0.90	3.91
Mar	2025	2.864	$ (0.001)	$ 2.863	$0.90	3.77
Apr	2025	2.666	$ (0.011)	$ 2.677	$0.90	3.58
May	2025	2.692	$ 0.016	$ 2.707	$0.90	3.61
Jun	2025	2.727	$ 0.054	$ 2.781	$0.90	3.68
Jul	2025	2.807	$ 0.078	$ 2.886	$0.90	3.79
Aug	2025	2.831	$ 0.078	$ 2.908	$0.90	3.81
Sep	2025	2.739	$ 0.045	$ 2.784	$0.90	3.68
Oct	2025	2.754	$ 0.035	$ 2.789	$0.90	3.69
Nov	2025	2.829	$ 0.036	$ 2.865	$0.90	3.77
Dec	2025	2.987	$ 0.051	$ 3.038	$0.91	3.94
Jan	2026	3.084	$ 0.057	$ 3.140	$0.91	4.05
Feb	2026	3.076	$ 0.053	$ 3.129	$0.91	4.04
Mar	2026	2.994	$ (0.003)	$ 2.991	$0.90	3.90
Apr	2026	2.857	$ (0.001)	$ 2.856	$0.90	3.76
May	2026	2.868	$ 0.022	$ 2.890	$0.90	3.79
Jun	2026	2.914	$ 0.053	$ 2.967	$0.90	3.87
Jul	2026	3.053	$ 0.077	$ 3.130	$0.91	4.04
Aug	2026	3.085	$ 0.078	$ 3.163	$0.91	4.07
Sep	2026	3.022	$ 0.041	$ 3.063	$0.91	3.97
Oct	2026	3.013	$ 0.034	$ 3.047	$0.91	3.95
Nov	2026	3.078	$ 0.042	$ 3.120	$0.91	4.03
Dec	2026	3.243	$ 0.054	$ 3.297	$0.91	4.21
Jan	2027	3.321	$ 0.062	$ 3.383	$0.91	4.29
Feb	2027	3.333	$ 0.057	$ 3.390	$0.91	4.30
Mar	2027	3.278	$ (0.002)	$ 3.276	$0.91	4.19
Apr	2027	3.125	$ (0.002)	$ 3.123	$0.91	4.03
May	2027	3.145	$ 0.021	$ 3.166	$0.91	4.07
Jun	2027	3.207	$ 0.051	$ 3.258	$0.91	4.17
Jul	2027	3.410	$ 0.079	$ 3.489	$0.91	4.40
Aug	2027	3.447	$ 0.082	$ 3.529	$0.91	4.44
Sep	2027	3.434	$ 0.043	$ 3.477	$0.91	4.39
Oct	2027	3.325	$ 0.038	$ 3.364	$0.91	4.28
Nov	2027	3.392	$ 0.043	$ 3.435	$0.91	4.35
Dec	2027	3.568	$ 0.054	$ 3.622	$0.92	4.54
Jan	2028	3.556	$ 0.063	$ 3.618	$0.92	4.53
Feb	2028	3.576	$ 0.047	$ 3.623	$0.92	4.54
Mar	2028	3.501	$ (0.002)	$ 3.498	$0.91	4.41
Apr	2028	3.454	$ (0.006)	$ 3.448	$0.91	4.36
May	2028	3.483	$ 0.024	$ 3.506	$0.91	4.42
Jun	2028	3.644	$ 0.059	$ 3.703	$0.92	4.62
Jul	2028	3.656	$ 0.091	$ 3.747	$0.92	4.67
Aug	2028	3.698	$ 0.089	$ 3.788	$0.92	4.71
Sep	2028	3.748	$ 0.048	$ 3.795	$0.92	4.71
Oct	2028	3.729	$ 0.044	$ 3.772	$0.92	4.69
Nov	2028	3.780	$ 0.046	$ 3.826	$0.92	4.75
Dec	2028	4.008	$ 0.054	$ 4.062	$0.92	4.99
Jan	2029	4.026	$ 0.075	$ 4.102	$0.93	5.03
Feb	2029	4.051	$ 0.068	$ 4.120	$0.93	5.05
Mar	2029	3.878	$ 0.002	$ 3.880	$0.92	4.80
Apr	2029	3.934	$ 0.027	$ 3.961	$0.92	4.88
May	2029	4.041	$ 0.062	$ 4.102	$0.93	5.03
Jun	2029	3.805	$ 0.091	$ 3.896	$0.92	4.82
Jul	2029	3.853	$ 0.098	$ 3.931	$0.92	4.85
Aug	2029	3.835	$ 0.053	$ 3.888	$0.92	4.91
Sep	2029	3.926	$ 0.040	$ 3.967	$0.92	4.89
Oct	2029	3.843	$ 0.063	$ 3.906	$0.92	4.83
Nov	2029	4.020	$ 0.062	$ 4.083	$0.93	5.01
Dec	2029	4.004	$ 0.075	$ 4.079	$0.93	5.00
Jan	2030	4.029	$ 0.059	$ 4.088	$0.93	5.02
Feb	2030	3.934	$ 0.004	$ 3.937	$0.92	4.86
Mar	2030	3.906	$ (0.008)	$ 3.898	$0.92	4.82
Apr	2030	3.929	$ 0.029	$ 3.959	$0.92	4.88
May	2030	3.994	$ 0.069	$ 4.062	$0.92	4.99
Jun	2030	4.277	$ 0.104	$ 4.380	$0.93	5.31
Jul	2030	4.308	$ 0.113	$ 4.421	$0.93	5.35
Aug	2030	4.245	$ 0.056	$ 4.301	$0.93	5.23
Sep	2030	4.053	$ 0.053	$ 4.106	$0.93	5.03
Oct	2030	3.979	$ 0.056	$ 4.035	$0.92	4.96
Nov	2030	4.172	$ 0.064	$ 4.237	$0.93	5.17
Dec	2030	4.322	$ 0.098	$ 4.422	$0.93	5.25
Jan	2031	4.251	$ 0.092	$ 4.344	$0.93	5.27
Feb	2031	4.167	$ 0.019	$ 4.187	$0.93	5.11
Mar	2031	4.110	$ 0.050	$ 4.132	$0.93	5.06
Apr	2031	4.158	$ 0.055	$ 4.213	$0.93	5.14
May	2031	4.214	$ 0.082	$ 4.296	$0.93	5.23
Jun	2031	4.499	$ 0.116	$ 4.615	$0.94	5.55
Jul	2031	4.544	$ 0.139	$ 4.683	$0.94	5.62
Aug	2031	4.460	$ 0.086	$ 4.546	$0.93	5.48
Sep	2031	4.321	$ 0.082	$ 4.403	$0.93	5.33
Oct	2031	4.381	$ 0.066	$ 4.447	$0.93	5.38
Nov	2031	4.533	$ 0.082	$ 4.615	$0.94	5.55
Dec	2031	4.448	$ 0.106	$ 4.554	$0.93	5.49
Jan	2032	4.472	$ 0.077	$ 4.549	$0.93	5.48
Feb	2032	4.455	$ 0.050	$ 4.504	$0.93	5.44
Mar	2032	4.318	$ 0.026	$ 4.344	$0.93	5.27
Apr	2032	4.342	$ 0.069	$ 4.411	$0.93	5.34
May	2032	4.369	$ 0.095	$ 4.464	$0.93	5.40
Jun	2032	4.491	$ 0.136	$ 4.628	$0.94	5.56
Jul	2032	4.530	$ 0.159	$ 4.689	$0.94	5.63
Aug	2032	4.464	$ 0.091	$ 4.555	$0.93	5.49
Sep	2032	4.435	$ 0.088	$ 4.524	$0.93	5.46
Oct	2032	4.539	$ 0.053	$ 4.592	$0.93	5.53
Nov	2032	4.550	$ 0.072	$ 4.622	$0.94	5.56
Dec	2032	4.332	$ 0.093	$ 4.424	$0.93	5.36
Jan	2033	4.361	$ 0.091	$ 4.452	$0.93	5.38
Feb	2033	4.319	$ 0.022	$ 4.340	$0.93	5.27
Mar	2033	4.317	$ 0.016	$ 4.333	$0.93	5.26
Apr	2033	4.345	$ 0.032	$ 4.377	$0.93	5.31
May	2033	4.376	$ 0.080	$ 4.456	$0.93	5.39
Jun	2033	4.510	$ 0.119	$ 4.629	$0.94	5.56
Jul	2033	4.549	$ 0.127	$ 4.677	$0.94	5.61
Aug	2033	4.490	$ 0.068	$ 4.558	$0.93	5.49
Sep	2033	4.448	$ 0.053	$ 4.501	$0.93	5.43
Oct	2033	4.479	$ 0.033	$ 4.512	$0.94	5.55
Nov	2033	4.739	$ 0.047	$ 4.787	$0.94	5.73
Dec	2033	4.726	$ 0.080	$ 4.806	$0.94	5.74
Jan	2034	4.590	$ 0.056	$ 4.645	$0.94	5.58
Feb	2034	4.457	$ (0.008)	$ 4.450	$0.93	5.38
Mar	2034	4.404	$ 0.009	$ 4.413	$0.93	5.34
Apr	2034	4.433	$ 0.039	$ 4.472	$0.93	5.40
May	2034	4.462	$ 0.084	$ 4.546	$0.93	5.48
Jun	2034	4.676	$ 0.125	$ 4.801	$0.94	5.74
Jul	2034	4.712	$ 0.144	$ 4.856	$0.94	5.80
Aug	2034	4.623	$ 0.074	$ 4.697	$0.94	5.63
Sep	2034	4.509	$ 0.049	$ 4.558	$0.93	5.49
Oct	2034	4.704	$ 0.034	$ 4.738	$0.94	5.68
Nov	2034	4.869	$ 0.055	$ 4.924	$0.94	5.87
Dec	2034	4.897	$ 0.086	$ 4.983	$0.94	5.93
Jan	2035	4.922	$ 0.065	$ 4.987	$0.94	5.93
Feb	2035	4.777	$ 0.018	$ 4.791	$0.94	5.73
Mar	2035	4.557	$ 0.023	$ 4.580	$0.93	5.51
Apr	2035	4.585	$ 0.046	$ 4.632	$0.94	5.57
May	2035	4.615	$ 0.091	$ 4.706	$0.94	5.64
Jul	2035	4.853	$ 0.130	$ 4.983	$0.94	5.93
Aug	2035	4.884	$ 0.147	$ 5.031	$0.94	5.97
Sep	2035	4.802	$ 0.075	$ 4.877	$0.94	5.82
Oct	2035	4.679	$ 0.048	$ 4.727	$0.94	5.66
Nov	2035	4.719	$ 0.033	$ 4.752	$0.94	5.69
Dec	2035	4.950	$ 0.058	$ 4.908	$0.94	5.85
Jan	2036	4.798	$ 0.093	$ 4.891	$0.94	5.83
Feb	2036	4.819	$ 0.034	$ 4.853	$0.94	5.79
Mar	2036	4.738	$ 0.020	$ 4.758	$0.94	5.70
Apr	2036	4.553	$ 0.023	$ 4.575	$0.93	5.51
May	2036	4.581	$ 0.049	$ 4.631	$0.94	5.57
Jun	2036	4.615	$ 0.096	$ 4.711	$0.94	5.65
Jul	2036	4.751	$ 0.135	$ 4.886	$0.94	5.83
Aug	2036	4.785	$ 0.150	$ 4.935	$0.94	5.88
Sep	2036	4.762	$ 0.089	$ 4.851	$0.94	5.79
Oct	2036	4.730	$ 0.076	$ 4.806	$0.94	5.74
Nov	2036	4.794	$ 0.051	$ 4.845	$0.94	5.78
Dec	2036	5.013	$ 0.064	$ 5.077	$0.94	6.02
Jan	2037	5.030	$ 0.105	$ 5.135	$0.94	6.08
Feb	2037	5.061	$ 0.081	$ 5.143	$0.95	6.09
Mar	2037	4.986	$ 0.024	$ 5.011	$0.94	5.95
Apr	2037	4.842	$ 0.021	$ 4.863	$0.94	5.80
May	2037	4.872	$ 0.055	$ 4.927	$0.94	5.87
Jun	2037	4.921	$ 0.111	$ 5.032	$0.94	5.98
Jul	2037	5.132	$ 0.147	$ 5.279	$0.95	6.23
Aug	2037	5.166	$ 0.147	$ 5.312	$0.95	6.26
Sep	2037	5.095	$ 0.096	$ 5.190	$0.95	6.14
Oct	2037	5.039	$ 0.074	$ 5.113	$0.94	6.06
Nov	2037	5.103	$ 0.052	$ 5.155	$0.95	6.10
Dec	2037	5.316	$ 0.078	$ 5.394	$0.95	6.34
Jan	2038	5.338	$ 0.111	$ 5.449	$0.95	6.40
Feb	2038	5.371	$ 0.088	$ 5.459	$0.95	6.41
Mar	2038	5.288	$ 0.026	$ 5.314	$0.95	6.26
Apr	2038	5.108	$ 0.044	$ 5.152	$0.95	6.10
May	2038	5.139	$ 0.060	$ 5.199	$0.95	6.15
Jun	2038	5.176	$ 0.118	$ 5.294	$0.95	6.24
Jul	2038	5.323	$ 0.152	$ 5.475	$0.95	6.43
Aug	2038	5.361	$ 0.145	$ 5.506	$0.95	6.46
Sep	2038	5.240	$ 0.104	$ 5.344	$0.95	6.29
Oct	2038	5.187	$ 0.064	$ 5.251	$0.95	6.20
Nov	2038	5.273	$ 0.073	$ 5.347	$0.95	6.30
Dec	2038	5.462	$ 0.100	$ 5.562	$0.95	6.52
Jan	2039	5.479	$ 0.119	$ 5.598	$0.95	6.55
Feb	2039	5.513	$ 0.101	$ 5.614	$0.95	6.57
Mar	2039	5.381	$ 0.032	$ 5.413	$0.95	6.36
Apr	2039	5.036	$ 0.041	$ 5.077	$0.94	6.02
May	2039	5.065	$ 0.052	$ 5.117	$0.94	6.06
Jun	2039	5.097	$ 0.115	$ 5.212	$0.95	6.16
Jul	2039	5.149	$ 0.129	$ 5.277	$0.95	6.22
Aug	2039	5.594	$ 0.145	$ 5.740	$0.96	6.70
Sep	2039	5.570	$ 0.088	$ 5.658	$0.95	6.61
Oct	2039	5.363	$ 0.081	$ 5.444	$0.95	6.39
Nov	2039	5.474	$ 0.063	$ 5.487	$0.95	6.44
Dec	2039	5.590	$ 0.087	$ 5.677	$0.96	6.63
Jan	2040	5.550	$ 0.098	$ 5.648	$0.95	6.60
Feb	2040	5.479	$ 0.061	$ 5.540	$0.95	6.59
Mar	2040	5.488	$ 0.033	$ 5.521	$0.95	6.47
Apr	2040	5.306	$ 0.013	$ 5.320	$0.95	6.27
May	2040	5.337	$ 0.058	$ 5.395	$0.95	6.34
Jun	2040	5.383	$ 0.106	$ 5.490	$0.95	6.44
Jul	2040	5.580	$ 0.144	$ 5.724	$0.96	6.68
Aug	2040	5.614	$ 0.155	$ 5.768	$0.96	6.72
Sep	2040	5.662	$ 0.098	$ 5.701	$0.96	6.66
Oct	2040	5.477	$ 0.086	$ 5.563	$0.95	6.52
Nov	2040	5.535	$ 0.069	$ 5.604	$0.95	6.56
Dec	2040	5.724	$ 0.111	$ 5.836	$0.96	6.79
Jan	2041	5.766	$ 0.113	$ 5.879	$0.96	6.84
Feb	2041	5.788	$ 0.083	$ 5.871	$0.96	6.83
Mar	2041	5.665	$ 0.037	$ 5.702	$0.96	6.66
Apr	2041	5.459	$ 0.046	$ 5.506	$0.95	6.46
May	2041	5.492	$ 0.061	$ 5.553	$0.95	6.51
Jun	2041	5.450	$ 0.124	$ 5.574	$0.96	6.63
Jul	2041	5.794	$ 0.166	$ 5.961	$0.96	6.92
Aug	2041	5.829	$ 0.158	$ 5.987	$0.96	6.95
Sep	2041	5.831	$ 0.116	$ 5.947	$0.96	6.91
Oct	2041	5.639	$ 0.061	$ 5.700	$0.96	6.66
Nov	2041	5.743	$ 0.077	$ 5.820	$0.96	6.78
Dec	2041	5.906	$ 0.127	$ 6.033	$0.96	6.99
Jan	2042	5.890	$ 0.120	$ 6.010	$0.96	6.97
Feb	2042	5.914	$ 0.089	$ 6.003	$0.96	6.96
Mar	2042	5.789	$ 0.033	$ 5.822	$0.96	6.78
Apr	2042	5.627	$ 0.045	$ 5.672	$0.96	6.63
May	2042	5.662	$ 0.063	$ 5.725	$0.96	6.68
Jun	2042	5.717	$ 0.134	$ 5.851	$0.96	6.81
Jul	2042	6.009	$ 0.168	$ 6.176	$0.96	7.14
Aug	2042	6.046	$ 0.171	$ 6.217	$0.97	7.18
Sep	2042	6.026	$ 0.120	$ 6.147	$0.96	7.11
Oct	2042	5.820	$ 0.080	$ 5.900	$0.96	6.86
Nov	2042	5.852	$ 0.075	$ 5.927	$0.96	6.89
Dec	2042	6.017	$ 0.102	$ 6.139	$0.96	7.10
Jan	2043	6.007	$ 0.105	$ 6.112	$0.96	7.08
Feb	2043	6.026	$ 0.059	$ 6.085	$0.96	7.05
Mar	2043	5.909	$ 0.035	$ 5.944	$0.96	6.90
Apr	2043	5.704	$ 0.028	$ 5.732	$0.96	6.69
May	2043	5.759	$ 0.030	$ 5.789	$0.96	6.75
Jun	2043	5.782	$ 0.106	$ 5.888	$0.96	6.85
Jul	2043	6.064	$ 0.164	$ 6.229	$0.97	7.19
Aug	2043	6.101	$ 0.158	$ 6.257	$0.97	7.22
Sep	2043	6.120	$ 0.091	$ 6.211	$0.97	7.18
Oct	2043	5.969	$ 0.077	$ 5.969	$0.96	6.93
Nov	2043	5.943	$ 0.066	$ 6.010	$0.96	6.97
Dec	2043	6.136	$ 0.097	$ 6.233	$0.97	7.20
Jan	2044	6.152	$ 0.099	$ 6.251	$0.97	7.22
Feb	2044	6.179	$ 0.059	$ 6.238	$0.97	7.20
Mar	2044	6.050	$ 0.025	$ 6.075	$0.96	7.04
Apr	2044	5.939	$ 0.029	$ 5.968	$0.96	6.93
May	2044	5.974	$ 0.040	$ 6.013	$0.96	6.97
Jun	2044	6.010	$ 0.105	$ 6.115	$0.96	7.08
Jul	2044	6.285	$ 0.160	$ 6.446	$0.97	7.42
Aug	2044	6.324	$ 0.162	$ 6.486	$0.97	7.46
Sep	2044	6.312	$ 0.080	$ 6.393	$0.97	7.36
Oct	2044	6.153	$ 0.045	$ 6.198	$0.97	7.16
Nov	2044	6.248	$ 0.060	$ 6.308	$0.97	7.28
Dec	2044	6.442	$ 0.099	$ 6.541	$0.97	7.51
Jan	2045	6.424	$ 0.107	$ 6.531	$0.97	7.50
Feb	2045	6.462	$ 0.056	$ 6.518	$0.97	7.49
Mar	2045	6.358	$ 0.031	$ 6.390	$0.97	7.36
Apr	2045	6.212	$ 0.026	$ 6.238	$0.97	7.20
May	2045	6.245	$ 0.042	$ 6.287	$0.97	7.25
Jun	2045	6.283	$ 0.109	$ 6.393	$0.97	7.36
Jul	2045	6.574	$ 0.157	$ 6.731	$0.98	7.71
Aug	2045	6.615	$ 0.169	$ 6.784	$0.98	7.76
Sep	2045	6.627	$ 0.085	$ 6.711	$0.97	7.69
Oct	2045	6.430	$ 0.062	$ 6.492	$0.97	7.46
Nov	2045	6.574	$ 0.062	$ 6.636	$0.97	7.57
Dec	2045	6.728	$ 0.096	$ 6.824	$0.98	7.80
Jan	2046	6.739	$ 0.115	$ 6.854	$0.98	7.83
Feb	2046	6.740	$ 0.082	$ 6.821	$0.98	7.80
Mar	2046	6.602	$ 0.022	$ 6.624	$0.97	7.60
Apr	2046	6.418	$ 0.018	$ 6.436	$0.97	7.41
May	2046	6.446	$ 0.043	$ 6.489	$0.97	7.46
Jun	2046	6.484	$ 0.110	$ 6.594	$0.97	7.57
Jul	2046	6.815	$ 0.158	$ 6.973	$0.98	7.95
Aug	2046	6.858	$ 0.176	$ 7.034	$0.98	8.01
Sep	2046	6.836	$ 0.081	$ 6.917	$0.98	7.90
Oct	2046	6.620	$ 0.062	$ 6.682	$0.97	7.66
Nov	2046	6.680	$ 0.064	$ 6.745	$0.98	7.72
Dec	2046	6.855	$ 0.103	$ 6.959	$0.98	7.94
Jan	2047	6.873	$ 0.126	$ 6.999	$0.98	7.98
Feb	2047	6.885	$ 0.058	$ 6.943	$0.98	7.92
Mar	2047	6.640	$ 0.019	$ 6.659	$0.97	7.63
Apr	2047	6.485	$ 0.022	$ 6.507	$0.97	7.48
May	2047	6.511	$ 0.039	$ 6.550	$0.97	7.52
Jun	2047	6.549	$ 0.123	$ 6.673	$0.97	7.65
Jul	2047	6.870	$ 0.165	$ 7.035	$0.98	8.02
Aug	2047	6.913	$ 0.182	$ 7.096	$0.98	8.08
Sep	2047	6.910	$ 0.088	$ 6.998	$0.98	7.98
Oct	2047	6.787	$ 0.052	$ 6.839	$0.98	7.82
Nov	2047	6.847	$ 0.052	$ 6.899	$0.98	7.88
Dec	2047	6.974	$ 0.093	$ 6.967	$0.98	7.95
Jan	2048	6.803	$ 0.109	$ 6.912	$0.98	7.89
Feb	2048	6.836	$ 0.036	$ 6.872	$0.98	7.85
Mar	2048	6.682	$ 0.007	$ 6.689	$0.97	7.66
Apr	2048	6.585	$ 0.022	$ 6.607	$0.97	7.58
May	2048	6.622	$ 0.032	$ 6.655	$0.97	7.63
Jun	2048	6.691	$ 0.099	$ 6.790	$0.98	7.77
Jul	2048	7.096	$ 0.136	$ 7.232	$0.98	8.22

DEF NATURAL GAS DISPATCH PRICES

Month	Year	Base HH Regular Supply Cost	Physical Basis Transco Zone 4	Base Cost Regular Supply Z4	Sabal Trail MMBTU Variable Cost	Sabal Trail Variable MMBTU Delivered Costs
Jan	2019	3.110	$ (0.055)	$ 3.055	$0.10	3.16
Feb	2019	2.690	$ (0.035)	$ 2.655	$0.09	2.74
Mar	2019	2.950	$ (0.050)	$ 2.900	$0.10	3.00
Apr	2019	2.650	$ (0.030)	$ 2.620	$0.09	2.71
May	2019	2.640	$ (0.004)	$ 2.636	$0.09	2.73
Jun	2019	2.400	$ 0.003	$ 2.403	$0.08	2.48
Jul	2019	2.370	$ 0.011	$ 2.381	$0.08	2.46
Aug	2019	2.289	$ 0.011	$ 2.231	$0.08	2.31
Sep	2019	2.560	$ 0.002	$ 2.562	$0.09	2.65
Oct	2019	2.743	$ (0.030)	$ 2.713	$0.09	2.80
Nov	2019	2.303	$ (0.021)	$ 2.282	$0.08	2.36
Dec	2019	2.495	$ (0.007)	$ 2.488	$0.08	2.57
Jan	2020	2.612	$ (0.009)	$ 2.603	$0.09	2.69
Feb	2020	2.575	$ (0.024)	$ 2.551	$0.09	2.64
Mar	2020	2.462	$ (0.021)	$ 2.441	$0.08	2.52
Apr	2020	2.247	$ (0.051)	$ 2.196	$0.07	2.27
May	2020	2.234	$ (0.050)	$ 2.184	$0.07	2.26
Jun	2020	2.278	$ (0.040)	$ 2.238	$0.08	2.31
Jul	2020	2.326	$ (0.027)	$ 2.299	$0.08	2.38
Aug	2020	2.335	$ (0.006)	$ 2.329	$0.08	2.41
Sep	2020	2.318	$ (0.045)	$ 2.273	$0.08	2.35
Oct	2020	2.344	$ (0.063)	$ 2.281	$0.08	2.36
Nov	2020	2.409	$ (0.031)	$ 2.378	$0.08	2.46
Dec	2020	2.578	$ (0.024)	$ 2.554	$0.09	2.64
Jan	2021	2.701	$ (0.010)	$ 2.690	$0.09	2.78
Feb	2021	2.661	$ (0.026)	$ 2.635	$0.09	2.72
Mar	2021	2.548	$ (0.017)	$ 2.531	$0.09	2.62
Apr	2021	2.364	$ (0.072)	$ 2.212	$0.08	2.29
May	2021	2.260	$ (0.066)	$ 2.194	$0.07	2.27
Jun	2021	2.294	$ (0.048)	$ 2.246	$0.08	2.32
Jul	2021	2.332	$ (0.039)	$ 2.293	$0.08	2.37
Aug	2021	2.339	$ (0.020)	$ 2.319	$0.08	2.40
Sep	2021	2.328	$ (0.054)	$ 2.274	$0.08	2.35
Oct	2021	2.354	$ (0.061)	$ 2.293	$0.08	2.37
Nov	2021	2.424	$ (0.036)	$ 2.388	$0.08	2.47
Dec	2021	2.603	$ (0.023)	$ 2.580	$0.09	2.67
Jan	2022	2.729	$ (0.017)	$ 2.712	$0.09	2.80
Feb	2022	2.702	$ (0.027)	$ 2.675	$0.09	2.77
Mar	2022	2.595	$ (0.029)	$ 2.566	$0.09	2.65
Apr	2022	2.340	$ (0.067)	$ 2.273	$0.08	2.35
May	2022	2.324	$ (0.067)	$ 2.257	$0.08	2.33
Jun	2022	2.359	$ (0.044)	$ 2.315	$0.08	2.39
Jul	2022	2.399	$ (0.024)	$ 2.375	$0.08	2.46
Aug	2022	2.411	$ (0.015)	$ 2.396	$0.08	2.48
Sep	2022	2.404	$ (0.049)	$ 2.355	$0.08	2.43
Oct	2022	2.430	$ (0.058)	$ 2.372	$0.08	2.45
Nov	2022	2.467	$ (0.032)	$ 2.460	$0.08	2.54
Dec	2022	2.674	$ (0.015)	$ 2.659	$0.09	2.75
Jan	2023	2.799	$ (0.019)	$ 2.780	$0.09	2.87
Feb	2023	2.767	$ (0.034)	$ 2.733	$0.09	2.83
Mar	2023	2.656	$ (0.028)	$ 2.628	$0.09	2.72
Apr	2023	2.401	$ (0.068)	$ 2.333	$0.08	2.41
May	2023	2.385	$ (0.064)	$ 2.321	$0.08	2.40
Jun	2023	2.428	$ (0.050)	$ 2.376	$0.08	2.46
Jul	2023	2.466	$ (0.040)	$ 2.426	$0.08	2.51
Aug	2023	2.481	$ (0.029)	$ 2.452	$0.08	2.54
Sep	2023	2.476	$ (0.050)	$ 2.426	$0.08	2.51
Oct	2023	2.505	$ (0.061)	$ 2.444	$0.08	2.53
Nov	2023	2.580	$ (0.046)	$ 2.534	$0.09	2.62
Dec	2023	2.760	$ (0.023)	$ 2.737	$0.09	2.83
Jan	2024	2.883	$ (0.030)	$ 2.853	$0.10	2.95
Feb	2024	2.854	$ (0.044)	$ 2.809	$0.09	2.90
Mar	2024	2.742	$ (0.046)	$ 2.697	$0.09	2.79
Apr	2024	2.511	$ (0.086)	$ 2.425	$0.08	2.51
May	2024	2.501	$ (0.081)	$ 2.420	$0.08	2.50
Jun	2024	2.537	$ (0.060)	$ 2.477	$0.08	2.56
Jul	2024	2.579	$ (0.045)	$ 2.534	$0.09	2.62
Aug	2024	2.594	$ (0.028)	$ 2.566	$0.09	2.65
Sep	2024	2.580	$ (0.060)	$ 2.530	$0.09	2.62
Oct	2024	2.611	$ (0.060)	$ 2.550	$0.09	2.64
Nov	2024	2.687	$ (0.050)	$ 2.638	$0.09	2.73
Dec	2024	2.860	$ (0.038)	$ 2.822	$0.10	2.92
Jan	2025	2.961	$ (0.030)	$ 2.931	$0.10	3.03
Feb	2025	2.947	$ (0.044)	$ 2.903	$0.10	3.00
Mar	2025	2.862	$ (0.048)	$ 2.817	$0.10	2.91
Apr	2025	2.688	$ (0.098)	$ 2.590	$0.09	2.68
May	2025	2.692	$ (0.093)	$ 2.598	$0.09	2.69
Jun	2025	2.727	$ (0.060)	$ 2.667	$0.09	2.76
Jul	2025	2.807	$ (0.038)	$ 2.770	$0.09	2.86
Aug	2025	2.831	$ (0.025)	$ 2.805	$0.09	2.90
Sep	2025	2.739	$ (0.059)	$ 2.680	$0.09	2.77
Oct	2025	2.754	$ (0.078)	$ 2.676	$0.09	2.77
Nov	2025	2.829	$ (0.065)	$ 2.764	$0.09	2.86
Dec	2025	2.987	$ (0.055)	$ 2.932	$0.10	3.03
Jan	2026	3.084	$ (0.045)	$ 3.038	$0.10	3.14
Feb	2026	3.076	$ (0.053)	$ 3.023	$0.10	3.12
Mar	2026	2.994	$ (0.059)	$ 2.935	$0.10	3.03
Apr	2026	2.857	$ (0.089)	$ 2.767	$0.09	2.86
May	2026	2.868	$ (0.088)	$ 2.780	$0.09	2.87
Jun	2026	2.914	$ (0.060)	$ 2.854	$0.10	2.95
Jul	2026	3.053	$ (0.044)	$ 3.009	$0.10	3.11
Aug	2026	3.085	$ (0.036)	$ 3.049	$0.10	3.15
Sep	2026	3.022	$ (0.063)	$ 2.958	$0.10	3.06
Oct	2026	2.975	$ (0.088)	$ 2.925	$0.10	3.02
Nov	2026	3.078	$ (0.064)	$ 3.014	$0.10	3.12
Dec	2026	3.243	$ (0.049)	$ 3.194	$0.11	3.30
Jan	2027	3.321	$ (0.040)	$ 3.282	$0.11	3.39
Feb	2027	3.333	$ (0.052)	$ 3.281	$0.11	3.39
Mar	2027	3.278	$ (0.064)	$ 3.213	$0.11	3.32
Apr	2027	3.134	$ (0.097)	$ 3.029	$0.10	3.13
May	2027	3.145	$ (0.096)	$ 3.049	$0.10	3.15
Jun	2027	3.207	$ (0.060)	$ 3.147	$0.11	3.25
Jul	2027	3.410	$ (0.044)	$ 3.366	$0.11	3.48
Aug	2027	3.447	$ (0.034)	$ 3.413	$0.11	3.53
Sep	2027	3.434	$ (0.066)	$ 3.368	$0.11	3.48
Oct	2027	3.325	$ (0.088)	$ 3.237	$0.11	3.35
Nov	2027	3.382	$ (0.064)	$ 3.328	$0.11	3.44
Dec	2027	3.568	$ (0.047)	$ 3.521	$0.12	3.64
Jan	2028	3.556	$ (0.035)	$ 3.521	$0.12	3.64
Feb	2028	3.576	$ (0.059)	$ 3.516	$0.12	3.63
Mar	2028	3.501	$ (0.066)	$ 3.435	$0.12	3.55
Apr	2028	3.454	$ (0.110)	$ 3.344	$0.11	3.46
May	2028	3.483	$ (0.100)	$ 3.383	$0.11	3.50
Jun	2028	3.644	$ (0.057)	$ 3.587	$0.12	3.71
Jul	2028	3.656	$ (0.036)	$ 3.620	$0.12	3.74
Aug	2028	3.698	$ (0.026)	$ 3.673	$0.12	3.80
Sep	2028	3.748	$ (0.063)	$ 3.685	$0.12	3.81
Oct	2028	3.729	$ (0.086)	$ 3.643	$0.12	3.76
Nov	2028	3.780	$ (0.066)	$ 3.714	$0.12	3.84
Dec	2028	4.008	$ (0.054)	$ 3.954	$0.13	4.09
Jan	2029	4.026	$ (0.034)	$ 3.993	$0.13	4.13
Feb	2029	4.063	$ (0.048)	$ 4.003	$0.13	4.14
Mar	2029	3.985	$ (0.054)	$ 3.931	$0.13	4.03
Apr	2029	3.878	$ (0.109)	$ 3.770	$0.13	3.90
May	2029	3.914	$ (0.104)	$ 3.830	$0.13	3.96
Jun	2029	4.041	$ (0.072)	$ 3.969	$0.13	4.10
Jul	2029	3.805	$ (0.048)	$ 3.757	$0.13	3.88
Aug	2029	3.893	$ (0.033)	$ 3.860	$0.13	3.93
Sep	2029	3.935	$ (0.072)	$ 3.863	$0.13	3.99
Oct	2029	3.926	$ (0.098)	$ 3.828	$0.13	3.96
Nov	2029	3.943	$ (0.044)	$ 3.900	$0.13	3.93
Dec	2029	4.020	$ (0.043)	$ 3.977	$0.13	4.11
Jan	2030	4.004	$ (0.028)	$ 3.976	$0.13	4.11
Feb	2030	4.029	$ (0.042)	$ 3.987	$0.13	4.12
Mar	2030	3.934	$ (0.052)	$ 3.882	$0.13	4.01
Apr	2030	3.906	$ (0.123)	$ 3.783	$0.13	3.91
May	2030	3.929	$ (0.101)	$ 3.828	$0.13	3.96
Jun	2030	3.994	$ (0.047)	$ 3.946	$0.13	4.08
Jul	2030	4.277	$ (0.019)	$ 4.258	$0.14	4.40
Aug	2030	4.308	$ 0.003	$ 4.311	$0.14	4.45
Sep	2030	4.245	$ (0.055)	$ 4.190	$0.14	4.33
Oct	2030	4.053	$ (0.079)	$ 3.974	$0.13	4.11
Nov	2030	3.979	$ (0.043)	$ 3.935	$0.13	4.07
Dec	2030	4.177	$ (0.041)	$ 4.131	$0.14	4.27
Jan	2031	4.225	$ (0.043)	$ 4.182	$0.14	4.32
Feb	2031	4.251	$ (0.053)	$ 4.198	$0.14	4.34
Mar	2031	4.167	$ (0.063)	$ 4.104	$0.14	4.24
Apr	2031	4.132	$ (0.128)	$ 4.004	$0.13	4.14
May	2031	4.158	$ (0.103)	$ 4.055	$0.14	4.19
Jun	2031	4.214	$ (0.062)	$ 4.152	$0.14	4.29
Jul	2031	4.499	$ (0.035)	$ 4.464	$0.15	4.61
Aug	2031	4.544	$ (0.039)	$ 4.505	$0.15	4.65
Sep	2031	4.460	$ (0.054)	$ 4.406	$0.15	4.55
Oct	2031	4.321	$ (0.080)	$ 4.240	$0.14	4.38
Nov	2031	4.381	$ (0.063)	$ 4.318	$0.14	4.46
Dec	2031	4.533	$ (0.053)	$ 4.480	$0.15	4.63
Jan	2032	4.448	$ (0.049)	$ 4.399	$0.15	4.55
Feb	2032	4.472	$ (0.059)	$ 4.413	$0.15	4.56
Mar	2032	4.455	$ (0.068)	$ 4.388	$0.15	4.53
Apr	2032	4.318	$ (0.130)	$ 4.188	$0.14	4.33
May	2032	4.342	$ (0.100)	$ 4.241	$0.14	4.38
Jun	2032	4.369	$ (0.058)	$ 4.311	$0.14	4.45
Jul	2032	4.491	$ (0.038)	$ 4.453	$0.15	4.60
Aug	2032	4.530	$ (0.029)	$ 4.501	$0.15	4.65
Sep	2032	4.464	$ (0.053)	$ 4.412	$0.15	4.56
Oct	2032	4.435	$ (0.081)	$ 4.354	$0.15	4.50
Nov	2032	4.539	$ (0.106)	$ 4.433	$0.15	4.58
Dec	2032	4.550	$ (0.077)	$ 4.473	$0.15	4.62
Jan	2033	4.317	$ (0.063)	$ 4.269	$0.14	4.41
Feb	2033	4.361	$ (0.073)	$ 4.288	$0.14	4.43
Mar	2033	4.319	$ (0.104)	$ 4.215	$0.14	4.36
Apr	2033	4.317	$ (0.144)	$ 4.173	$0.14	4.31
May	2033	4.345	$ (0.136)	$ 4.209	$0.14	4.35
Jun	2033	4.376	$ (0.080)	$ 4.295	$0.14	4.44
Jul	2033	4.510	$ (0.043)	$ 4.467	$0.15	4.62
Aug	2033	4.549	$ (0.023)	$ 4.526	$0.15	4.68
Sep	2033	4.490	$ (0.076)	$ 4.413	$0.15	4.56
Oct	2033	4.449	$ (0.124)	$ 4.324	$0.14	4.47
Nov	2033	4.579	$ (0.109)	$ 4.469	$0.15	4.62
Dec	2033	4.739	$ (0.081)	$ 4.659	$0.15	4.81
Jan	2034	4.726	$ (0.063)	$ 4.663	$0.16	4.82
Feb	2034	4.590	$ (0.073)	$ 4.516	$0.15	4.67
Mar	2034	4.457	$ (0.110)	$ 4.347	$0.14	4.49
Apr	2034	4.404	$ (0.134)	$ 4.270	$0.14	4.41
May	2034	4.433	$ (0.133)	$ 4.299	$0.14	4.44
Jun	2034	4.462	$ (0.080)	$ 4.382	$0.15	4.53
Jul	2034	4.676	$ (0.044)	$ 4.632	$0.15	4.79
Aug	2034	4.712	$ (0.024)	$ 4.687	$0.16	4.84
Sep	2034	4.623	$ (0.078)	$ 4.544	$0.15	4.70
Oct	2034	4.509	$ (0.131)	$ 4.378	$0.15	4.52
Nov	2034	4.704	$ (0.108)	$ 4.595	$0.15	4.75
Dec	2034	4.869	$ (0.073)	$ 4.796	$0.16	4.96
Jan	2035	4.897	$ (0.063)	$ 4.835	$0.16	5.00
Feb	2035	4.979	$ (0.073)	$ 4.849	$0.16	5.01
Mar	2035	4.772	$ (0.110)	$ 4.663	$0.16	4.82
Apr	2035	4.557	$ (0.140)	$ 4.416	$0.15	4.56
May	2035	4.586	$ (0.134)	$ 4.452	$0.15	4.60
Jun	2035	4.615	$ (0.080)	$ 4.534	$0.15	4.68
Jul	2035	4.853	$ (0.039)	$ 4.814	$0.16	4.97
Aug	2035	4.884	$ (0.027)	$ 4.857	$0.16	5.02
Sep	2035	4.802	$ (0.078)	$ 4.724	$0.16	4.88
Oct	2035	4.679	$ (0.132)	$ 4.547	$0.15	4.70
Nov	2035	4.719	$ (0.110)	$ 4.610	$0.15	4.76
Dec	2035	4.850	$ (0.070)	$ 4.780	$0.16	4.94
Jan	2036	4.798	$ (0.063)	$ 4.735	$0.16	4.89
Feb	2036	4.819	$ (0.080)	$ 4.739	$0.16	4.90
Mar	2036	4.738	$ (0.110)	$ 4.628	$0.15	4.78
Apr	2036	4.553	$ (0.143)	$ 4.409	$0.15	4.56
May	2036	4.581	$ (0.133)	$ 4.448	$0.15	4.60
Jun	2036	4.615	$ (0.083)	$ 4.532	$0.15	4.68
Jul	2036	4.751	$ (0.040)	$ 4.711	$0.16	4.87
Aug	2036	4.785	$ (0.030)	$ 4.755	$0.16	4.91
Sep	2036	4.762	$ (0.074)	$ 4.688	$0.16	4.84
Oct	2036	4.730	$ (0.124)	$ 4.606	$0.15	4.76
Nov	2036	4.794	$ (0.109)	$ 4.685	$0.16	4.84
Dec	2036	5.013	$ (0.070)	$ 4.943	$0.16	5.11
Jan	2037	5.030	$ (0.059)	$ 4.971	$0.17	5.14
Feb	2037	5.061	$ (0.068)	$ 4.993	$0.17	5.16
Mar	2037	4.986	$ (0.114)	$ 4.872	$0.16	5.03
Apr	2037	4.842	$ (0.142)	$ 4.700	$0.16	4.86
May	2037	4.872	$ (0.138)	$ 4.735	$0.16	4.89
Jun	2037	4.971	$ (0.078)	$ 4.843	$0.16	5.00
Jul	2037	5.132	$ (0.038)	$ 5.094	$0.17	5.26
Aug	2037	5.166	$ (0.030)	$ 5.136	$0.17	5.31
Sep	2037	5.094	$ (0.073)	$ 5.022	$0.17	5.19
Oct	2037	5.039	$ (0.136)	$ 4.903	$0.16	5.07
Nov	2037	5.103	$ (0.121)	$ 4.982	$0.17	5.15
Dec	2037	5.316	$ (0.071)	$ 5.245	$0.17	5.42
Jan	2038	5.338	$ (0.063)	$ 5.275	$0.17	5.45
Feb	2038	5.371	$ (0.075)	$ 5.295	$0.18	5.47
Mar	2038	5.288	$ (0.122)	$ 5.166	$0.17	5.34
Apr	2038	5.108	$ (0.142)	$ 4.965	$0.16	5.13
May	2038	5.139	$ (0.141)	$ 4.998	$0.17	5.16
Jun	2038	5.176	$ (0.083)	$ 5.094	$0.17	5.26
Jul	2038	5.323	$ (0.042)	$ 5.281	$0.18	5.46
Aug	2038	5.361	$ (0.037)	$ 5.324	$0.18	5.50
Sep	2038	5.240	$ (0.075)	$ 5.165	$0.17	5.34
Oct	2038	5.187	$ (0.139)	$ 5.049	$0.17	5.22
Nov	2038	5.273	$ (0.119)	$ 5.155	$0.17	5.33
Dec	2038	5.462	$ (0.072)	$ 5.390	$0.18	5.57
Jan	2039	5.479	$ (0.063)	$ 5.416	$0.18	5.60
Feb	2039	5.513	$ (0.073)	$ 5.440	$0.18	5.62
Mar	2039	5.381	$ (0.122)	$ 5.259	$0.17	5.43
Apr	2039	4.996	$ (0.152)	$ 4.883	$0.16	5.05
May	2039	5.065	$ (0.149)	$ 4.915	$0.16	5.08
Jun	2039	5.097	$ (0.092)	$ 5.006	$0.17	5.17
Jul	2039	5.149	$ (0.057)	$ 5.092	$0.17	5.26
Aug	2039	5.594	$ (0.045)	$ 5.549	$0.18	5.73
Sep	2039	5.570	$ (0.080)	$ 5.490	$0.18	5.67
Oct	2039	5.365	$ (0.141)	$ 5.222	$0.17	5.40
Nov	2039	5.424	$ (0.121)	$ 5.303	$0.18	5.48
Dec	2039	5.590	$ (0.085)	$ 5.505	$0.18	5.69
Jan	2040	5.550	$ (0.067)	$ 5.483	$0.18	5.66
Feb	2040	5.579	$ (0.108)	$ 5.471	$0.18	5.65
Mar	2040	5.488	$ (0.124)	$ 5.364	$0.18	5.54
Apr	2040	5.306	$ (0.152)	$ 5.155	$0.17	5.33
May	2040	5.337	$ (0.152)	$ 5.185	$0.17	5.36
Jun	2040	5.383	$ (0.098)	$ 5.284	$0.18	5.46
Jul	2040	5.580	$ (0.055)	$ 5.525	$0.18	5.71
Aug	2040	5.614	$ (0.039)	$ 5.575	$0.18	5.76
Sep	2040	5.602	$ (0.083)	$ 5.519	$0.18	5.70
Oct	2040	5.477	$ (0.152)	$ 5.326	$0.18	5.50
Nov	2040	5.535	$ (0.131)	$ 5.404	$0.18	5.58
Dec	2040	5.724	$ (0.072)	$ 5.652	$0.19	5.84
Jan	2041	5.766	$ (0.063)	$ 5.703	$0.19	5.89
Feb	2041	5.788	$ (0.092)	$ 5.696	$0.19	5.88
Mar	2041	5.665	$ (0.125)	$ 5.540	$0.18	5.72
Apr	2041	5.459	$ (0.153)	$ 5.305	$0.18	5.48
May	2041	5.487	$ (0.154)	$ 5.338	$0.18	5.52
Jun	2041	5.551	$ (0.090)	$ 5.461	$0.18	5.64
Jul	2041	5.794	$ (0.040)	$ 5.754	$0.19	5.94
Aug	2041	5.826	$ (0.027)	$ 5.802	$0.19	5.99
Sep	2041	5.831	$ (0.081)	$ 5.750	$0.19	5.94
Oct	2041	5.639	$ (0.155)	$ 5.484	$0.18	5.67
Nov	2041	5.749	$ (0.129)	$ 5.614	$0.19	5.80
Dec	2041	5.905	$ (0.063)	$ 5.842	$0.19	6.04
Jan	2042	5.890	$ (0.053)	$ 5.837	$0.19	6.03
Feb	2042	5.914	$ (0.087)	$ 5.827	$0.19	6.02
Mar	2042	5.789	$ (0.138)	$ 5.651	$0.19	5.84
Apr	2042	5.627	$ (0.162)	$ 5.465	$0.18	5.65
May	2042	5.662	$ (0.156)	$ 5.505	$0.18	5.69
Jun	2042	5.717	$ (0.083)	$ 5.634	$0.19	5.82
Jul	2042	6.009	$ (0.046)	$ 5.963	$0.20	6.16
Aug	2042	6.046	$ (0.011)	$ 6.035	$0.20	6.23
Sep	2042	6.028	$ (0.072)	$ 5.954	$0.20	6.15
Oct	2042	5.820	$ (0.154)	$ 5.666	$0.19	5.85
Nov	2042	5.952	$ (0.139)	$ 5.713	$0.19	5.90
Dec	2042	6.037	$ (0.131)	$ 5.906	$0.20	6.10
Jan	2043	6.007	$ (0.104)	$ 5.904	$0.20	6.10
Feb	2043	6.026	$ (0.152)	$ 5.875	$0.19	6.07
Mar	2043	5.909	$ (0.140)	$ 5.768	$0.19	5.96
Apr	2043	5.704	$ (0.194)	$ 5.510	$0.18	5.69
May	2043	5.739	$ (0.186)	$ 5.553	$0.18	5.74
Jun	2043	5.787	$ (0.159)	$ 5.623	$0.19	5.81
Jul	2043	6.064	$ (0.076)	$ 5.988	$0.20	6.19
Aug	2043	6.101	$ (0.060)	$ 6.040	$0.20	6.24
Sep	2043	6.170	$ (0.169)	$ 5.952	$0.20	6.15
Oct	2043	5.892	$ (0.166)	$ 5.727	$0.19	5.92
Nov	2043	5.943	$ (0.160)	$ 5.783	$0.19	5.97
Dec	2043	6.196	$ (0.143)	$ 5.993	$0.20	6.19
Jan	2044	6.152	$ (0.120)	$ 6.032	$0.20	6.23
Feb	2044	6.179	$ (0.155)	$ 6.024	$0.20	6.22
Mar	2044	6.080	$ (0.185)	$ 5.895	$0.19	6.08
Apr	2044	5.939	$ (0.215)	$ 5.724	$0.19	5.91
May	2044	5.974	$ (0.215)	$ 5.758	$0.19	5.95
Jun	2044	6.010	$ (0.169)	$ 5.841	$0.19	6.03
Jul	2044	6.285	$ (0.082)	$ 6.203	$0.21	6.41
Aug	2044	6.324	$ (0.060)	$ 6.264	$0.21	6.47
Sep	2044	6.312	$ (0.194)	$ 6.119	$0.20	6.32
Oct	2044	6.153	$ (0.218)	$ 5.934	$0.20	6.13
Nov	2044	6.248	$ (0.183)	$ 6.065	$0.20	6.27
Dec	2044	6.442	$ (0.152)	$ 6.290	$0.21	6.50
Jan	2045	6.424	$ (0.119)	$ 6.305	$0.21	6.51
Feb	2045	6.462	$ (0.173)	$ 6.289	$0.21	6.50
Mar	2045	6.358	$ (0.164)	$ 6.194	$0.20	6.40
Apr	2045	6.212	$ (0.226)	$ 5.987	$0.20	6.19
May	2045	6.245	$ (0.221)	$ 6.023	$0.20	6.22
Jun	2045	6.283	$ (0.174)	$ 6.110	$0.20	6.31
Jul	2045	6.474	$ (0.090)	$ 6.384	$0.21	6.70
Aug	2045	6.615	$ (0.064)	$ 6.551	$0.22	6.77
Sep	2045	6.627	$ (0.197)	$ 6.430	$0.21	6.64
Oct	2045	6.430	$ (0.221)	$ 6.209	$0.21	6.41
Nov	2045	6.534	$ (0.190)	$ 6.343	$0.21	6.55
Dec	2045	6.728	$ (0.160)	$ 6.568	$0.22	6.79
Jan	2046	6.739	$ (0.110)	$ 6.629	$0.22	6.85
Feb	2046	6.760	$ (0.174)	$ 6.586	$0.22	6.80
Mar	2046	6.602	$ (0.191)	$ 6.411	$0.21	6.62
Apr	2046	6.418	$ (0.238)	$ 6.179	$0.20	6.38
May	2046	6.446	$ (0.227)	$ 6.219	$0.21	6.42
Jun	2046	6.484	$ (0.177)	$ 6.307	$0.21	6.52
Jul	2046	6.815	$ (0.096)	$ 6.718	$0.22	6.94
Aug	2046	6.858	$ (0.058)	$ 6.800	$0.22	7.02
Sep	2046	6.836	$ (0.199)	$ 6.637	$0.22	6.86
Oct	2046	6.620	$ (0.222)	$ 6.397	$0.21	6.61
Nov	2046	6.680	$ (0.193)	$ 6.487	$0.21	6.70
Dec	2046	6.855	$ (0.151)	$ 6.704	$0.22	6.93
Jan	2047	6.873	$ (0.104)	$ 6.769	$0.22	6.99
Feb	2047	6.885	$ (0.193)	$ 6.691	$0.22	6.91
Mar	2047	6.640	$ (0.210)	$ 6.430	$0.21	6.64
Apr	2047	6.485	$ (0.255)	$ 6.231	$0.21	6.44
May	2047	6.511	$ (0.242)	$ 6.269	$0.21	6.48
Jun	2047	6.549	$ (0.153)	$ 6.397	$0.21	6.61
Jul	2047	6.870	$ (0.091)	$ 6.779	$0.22	7.00
Aug	2047	6.915	$ (0.054)	$ 6.859	$0.23	7.09
Sep	2047	6.910	$ (0.165)	$ 6.745	$0.22	6.97
Oct	2047	6.787	$ (0.234)	$ 6.553	$0.22	6.77
Nov	2047	6.947	$ (0.232)	$ 6.615	$0.22	6.83
Dec	2047	6.874	$ (0.180)	$ 6.695	$0.22	6.92
Jan	2048	6.803	$ (0.123)	$ 6.680	$0.22	6.90
Feb	2048	6.934	$ (0.214)	$ 6.623	$0.22	6.84
Mar	2048	6.682	$ (0.225)	$ 6.457	$0.21	6.67
Apr	2048	6.585	$ (0.258)	$ 6.327	$0.21	6.54
May	2048	6.677	$ (0.252)	$ 6.370	$0.21	6.58
Jun	2048	6.691	$ (0.186)	$ 6.505	$0.21

Assumptions

Commodity (see NYMEX & Fundy tab)

1) 2019 - 2024 based on NYMEX gas from 9/6/19 settlement prices.
2) 2024 - 2028 transition from NYMEX to Fundamentals
3) 2029 - 2050 based on Natural Gas Basis Differential and Prices from the Fundamentals Department 9/17/19

Assumptions:

PEF Transportation Fixed Costs

Cypress Expansion Project (Southern Natural Gas ("SNG") and Florida Gas Transmission ("FGT" Phase VII Expansion)

1) Primary source of Natural Gas Supply is the SNG LNG Elba Island LNG Terminal located near Savannah, GA

SNG Cypress Expansion

1) Primary Receipt Pt: Elba Island, GA Primary Delivery Pt: FGT on the Jacksonville, FL Lateral (Delivers into PEF's FGT Phase VII FTS-2 Capacity)
2) Secondary / Alternate Receipt Pts: Any point on SNG system Secondary / Alternate Delivery Pts: Any point on SNG system
3) Expected in service no sooner than May 1, 2007
4) Eff: May 1, 2007, FT Capacity = 60,453 Dts/day May - Sep
5) Eff: October 1, 2007, FT Capacity = 25,189 Dts/day (Oct - Apr)
6) Eff: May 1, 2008, FT Capacity = 80,605 Dts/day (May-Sep)
7) Eff: October 1, 2008, FT Capacity = 40,302 Dts/day (Oct - Apr)
8) Eff: May 1, 2009, FT Capacity = 100,756 Dts/day (May-Sep)
9) Eff: October 1, 2009, FT Capacity = 50,378 Dts/day (Oct - Apr)
10) Fixed Daily Demand Rate = $.3547/dt Year Round (Negotiated Rate)

FGT Phase VII Expansion

1) Primary Receipt Pt: SNG Cypress on Jacksonville, FL Primary Delivery Pts: FGT @ PEF Hines Complex, FGT @ Mirant Shady Hills and FGT @ PEF Anclote
2) Secondary / Alternate Receipt rights to any point on FGT Secondary / Alternate Delivery rights to any PEF Delivery Point on FGT
3) Expected in service no sooner than May 1, 2007
4) Eff: May 1, 2007, FT Capacity = 60,00 Dts/day (May - Sep)
5) Eff: October 1, 2007, FT Capacity = 25,000 Dts/day (Oct - Apr)
6) Eff: May 1, 2008, FT Capacity = 80,000 Dts/day (May - Sep)
7) Eff: October 1, 2008, FT Capacity = 40,000 Dts/day (Oct - Apr)
8) Eff: May 1, 2009, FT Capacity = 100,000 Dts/day (May-Sep)
9) Eff: October 1, 2009, FT Capacity = 50,000 Dts/day (Oct - Apr)
10) Fixed Daily Demand Rate = $.100/dt Discounted FTS-2 Rate (Oct - Apr)
11) Fixed Daily Demand Rate = $0.7185/dt (FTS-2 Rate with Rate Cap) (May - Sep)

Gulfstream FT-6 Transportation

FT-6 Transportation

1) Primary Receipt Pts: Mobile Bay Area Points Primary Delivery Pts: GNGS @ PEF Hines Complex, GNGS @ Intercession City and GNGS @ PEF Tiger Bay
2) All Fixed Cost Daily Demand Rates = $.55/dt (Negotiated Rates)
3) 1 FT-6 Contract No. 9000105R1 capacity sculpted = 72,000 Dts/day (Nov - Mar) and 90,000 Dts/day (Apr - Oct)
4) 2 FT-6 Contracts Year Round Capacity (not sculpted)
   a) Contract No. 9000665 = 30,000 Dts/day
   b) Contract No. 9000666 = 50,000 Dts/day
5) 1 FT-6 Contract No. 9162020 Osprey PPA / AMA 68,000 Dts/day From: 10/01/2014 To: 12/31/2016

Bartow GNGS Phase IV

1) 80,000 Dts/day (Sep-Dec 2008) and 155,000 Dts/day (2009 and forward)
2) All Fixed Cost Daily Demand Rates = $.59/dt
3) Contract No. 9035943

Hines GNGS Phase V

1) 35,000 Dts/day (Apr 2011 and beyond)
2) All Fixed Cost Daily Demand Rates = $.80/dt

Bartow GNGS

1) MDTQ = 5,000 Dts/Day thru 12/31/2012, and 7,000 Dts/Day Eff. 01/01/2013
2) Fixed Cost = $0.7041/dt (Negotiated Daily Demand Rate)
3) Contract No. 9120402 R3

Bartow GNGS (see K# 9120402 R3)

1) 2,000 Dts/Day (August 1, 2012 for 1-Yr w/ Yr to Yr Evergreen)
2) Fixed Cost = $0.7041/dt (Negotiated Daily Demand Rate)
3) Contract No. 9126223 Terminated on December 31, 2012 and combined with 9120402R3
4) See Contract No. 9120402R3 above effective January 1, 2013.

Citrus Contract on FGT (Administered by Dominion Energy)

1) Bundled Service via FGT
2) Primary Delivery Pt: FGT @ PEF Hines Complex
3) Daily Demand Rates = FGT FTS-2 Max Rate $0.7185
4) Bundled Delivery Service (includes supply)
5) Contract MDQ = 12,000 Dts/day (Nov - Apr)
6) Contract MDQ = 21,000 Dts/day (May - Oct)
7) Contract Expires November 1, 2013
8) Citrus FTS-1 & FTS-2 Contracts were permanently released to DEF effective: November 1, 2013 (see below under FGT Existing FTS-1 and FTS-2 Contracts)
9) See Notes under "FGT Existing FTS-1 and FTS-2 Contracts" (below - Notes 7 & 8)

FGT Existing FTS-1 and FTS-2 Contracts (excludes FGT Phase VII see above)

1) FTS-1 Capacity at a Daily Demand Rate Max FTS-1 Rate = $0.4694/Dt Effective 04/01/2010 (Rate Settlement in Docket No. RP10-21)
2) FTS-2 Capacity at a Daily Demand Rate Max FTS-2 Rate = $0.7185/Dt Effective 10/01/2010 (Rate Settlement in Docket No. RP10-21)
   a) Subject to Rate Cap (includes base usage rate in cap calculation) including reservation/demand rate surcharges at Daily Demand Rate = $.80/dt
3) Rates stated above (1&2) were settled in FGT Rate Case FERC Docket No. RP10-21, 09/03/2010 Eff. 10/01/2010 Pending FERC approval
4) FGT has a mandatory comeback requirement to file an NGA Section 4 Rate Case with FERC
   a) File with FERC no earlier than January 1, 2013
   b) File with FERC no later than November 1, 2014
5) FTS-1 Capacity at a Daily Demand Rate Max FTS-1 Rate = $0.4694/Dt (No Rate Cap)
   a) Contract No. 5815
6) FTS-2 Capacity at a Daily Demand Rate Max FTS-2 Rate = $0.7185/Dt (Subject to Rate Cap)
   a) Contract No. 5816
   b) Contract No. 5295 (Tiger Bay)
   c) Contract No. 5935 (FGT Phase IV)
      i) Primary Delivery Pts: PEF@ Hines, PEF @ Anclote, & PEF @ Intercession City (via Cane Island Lateral)
      ii) Secondary / Alternate Delivery Pts: All PEF Plants on FGT
7) Citrus / Dominion (VPEM) Permanent Capacity Release FGT FTS-1 Contact Nos. 114929, 114930, 114931 & 114934
   a) Effective: November 1, 2013
   b) Primary Delivery Point: Hines Energy Complex
   c) Annual Average Aggregate MDTQ = 6,932 Dts/day
   d) Max FTS-1 Recourse Rate = $.4694/Dt
   e) Combined w/ Note 8c below MDTQ = 12,000 Dts/day (Nov-Apr) and 21,000 Dts/day (May-Sep)
   f) 10 Year Rollover Option
8) Citrus / Dominion (VPEM) Permanent Capacity Release FGT FTS-2 Contact Nos. 114932 & 114933
   a) Effective: November 1, 2013
   b) Primary Delivery Point: Hines Energy Complex
   c) Annual Average Aggregate MDTQ = 9,568 Dts/day
   d) Max FTS-2 Recourse Rate = $.7185/Dt (Subject to Settlement Rate Cap)
   e) Combined w/ Note 7c above MDTQ = 12,000 Dts/day (Nov-Apr) and 21,000 Dts/day (May-Sep)
   f) ROFR rights

SGR Storage & Bay Gas

1) SGR based on 500,000 Dts/Mo (Nov-May) and 700,000 Dts/Mo (Jun-Oct) capacity
2) Bay Gas based on 500,000 Dts/Mo
3) Monthly Demand Rates = $0.22/dt thru 04/30/2013, then $0.24/dt 05/01/2013 thru 4/30/2018
4) Bay Gas negotiations completed
5) SGR contract expires 5/31/2018 (No Rollover Provision)

SESH

1) Based on 100,000 Dts/Day thru May2009, then 150,000 Dts/Day thru May2010 and then 200,000 Dts/Day
2) Monthly Demand Rates = $.275/dt

FGT Phase VIII Expansion (FTS-3) Contract # 111144

1) Eff April 2011, FTS-3 FT Capacity = 75,000 Dts/day
2) Fixed Daily Demand Rate = $1.30/dt

FGT (FTS-3) Contract # 113000

1) Eff April 2013, FTS-3 FT Capacity = 30,000 Dts/day
2) Fixed Daily Demand Rate = $1.25/dt

Transco Mobile Bay South Expansions Contract Nos. 9097513 (Ph I), 9109950 (Ph II) and 9111070 (BP Ph II)

1) Phase I - Based on 153,500 Dts/Day from May 2010
2) Monthly Demand Rates = $0.09958/dt (Eff: 03/01/2013) Settlement Rates Certified by FERC Presiding ALJ on 09/30/2013 & Subject to Final FERC Approval
3) Phase II - additional 50,000 Dts/Day effective May 1, 2011, at the same rate
4) Capacity Release From BP - additional 53,500 DTs/day eff. 6/1/16, at the same rate

Cost Allocation

1) Consumption percentage based on October 2013 FOF & Fall 2012 GFF

PGS Lateral for Vandolah

1) Vandolah only of $41,750/month beginning June 2012, expires May 31, 2027

Florida- 2019 IRP Fall Refresh Update - Coal - Version History

File Preparer:	Michael Quinto
Date Prepared:	10/7/2019
Concurring Manager:	Brett Phipps
Date Approved:	
Updates to File:	Coal Fundamental Prices
	Rail Rates
	Barge Rates
	Assumptions

Florida- Fall 2019 IRP Refresh Update - Coal

No Carbon

********** Key Assumptions - PLEASE READ **********

1. Using the following CERA fundamental price forecast in Nominal dollars (see the "Coal Price Inputs" sheet):

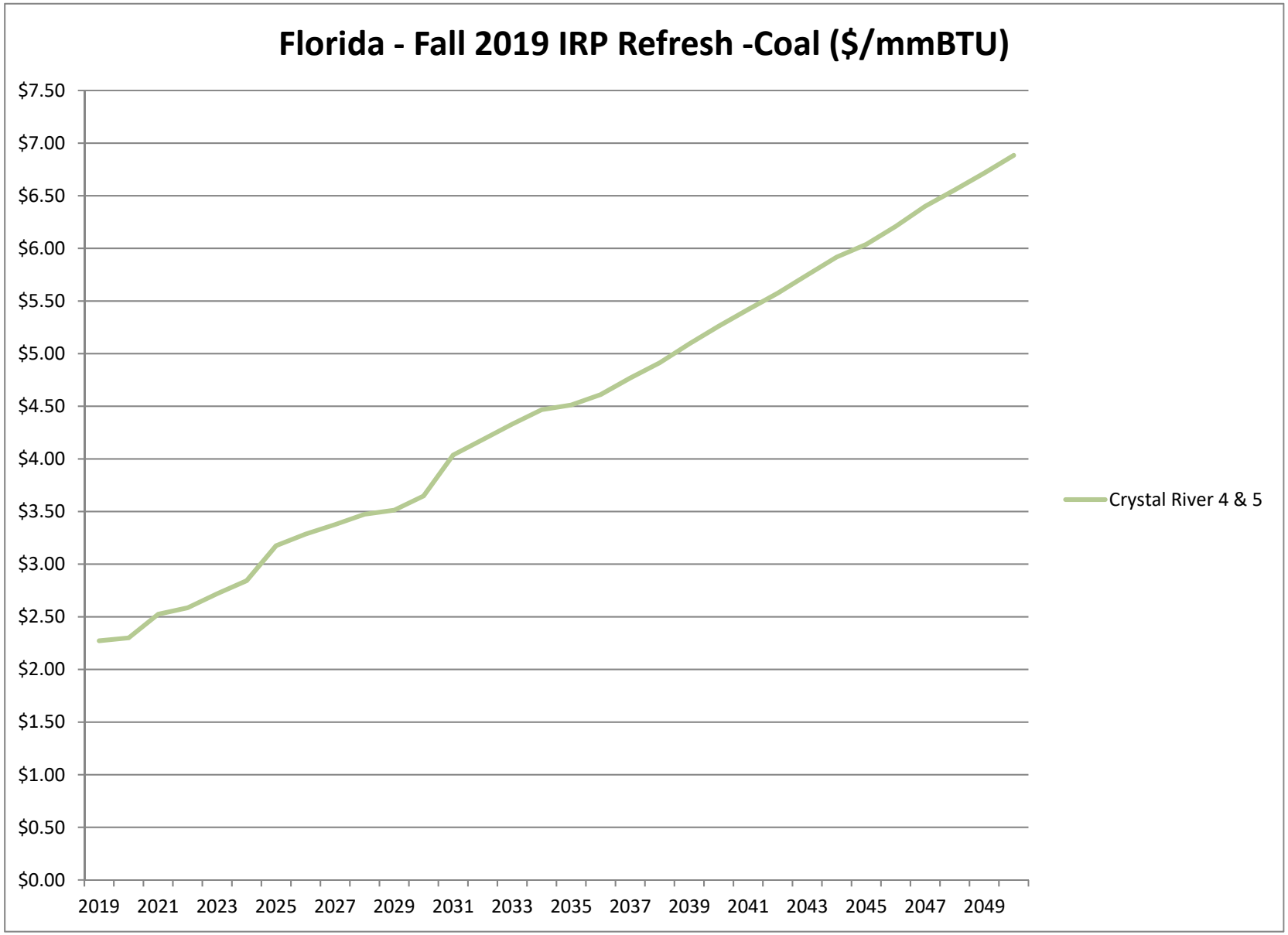
   Source File: Base, Low High Commodity Coal Curves_FL

   Source Tab: Fundamentals - Ratio Method

   From: Michael Quinto

2. Vendors for the fundemental price curves changed in 2017 from EVA to CERA. With this change there was a reduction in the number of coal prices forecasts provided for each region. However, where transportation rates provided alternative delivery methods for the same coal price forecast a delivered price was calculated.
3. This is an evaluation of the delivered cost per mmbtu only (coal price plus transportation cost). See the "Master" sheet for the overall summary of the lowest cost alternatives by station by year (including cost and quality). Additional cost adjustments for scrubber costs, O&M, etc. could be added upon request.
4. The delivered cost per mmbtu was calculated for all coal alternatives that can be transported to each station (see the sheets for each station). The coal alternative with the lowest delivered cost was then able to be identified and chosen for each year. This format allows the reviewer to see the delivered costs for all alternatives, regardless of whether or not they were not chosen (enables quick review of cost deltas for the next lowest cost alternatives). Where the station cannot burn the single lowest cost alternative at 100%, the lowest cost blend was determined.
5. This update incorporates unit capability constraints (Min BTU, Max SO2, Max Ash, Max Chlorine, and Max Mercury) and current capacity for on-site blending as we know them today.
6. Does not include any other adders for sulfur removal costs, O&M impacts or anything else. However, please note these additional cost impacts can be incorporated into the analysis upon request.
7. The CSX rail transportation rates assume the current proposed rates based off of Aug. 2019 CSX rate proposal (with Fuel Surcharge calculations based on COB 9/12/2019 WTI fuel pricing and AII-LF based on the actual index numbers through Q3 2019). The rates are escalated at 2.0% annually for 2020 through 2050.
8. For additional rail and barge assumptions see tab " Transportation Rate assumptions".
9. Crystal River Units 1&2 retirement occurred 12/31/18

10 This IRP is for planning purposes only. Using fundamental pricing for coal and market estimates for transportation rates. This evaluation does not include the modeling of the existing contractual commitments for coal, transportation and trans-loading.


Florida - Fall 2019 IRP Refresh -Coal ($/mmBTU)
$7.50
$7.00
$6.50
$6.00
$5.50
$5.00
$4.50
$4.00
$3.50
$3.00
$2.50
$2.00
$1.50
$1.00
$0.50
$0.00
2019
2021
2023
2025
2027
2029
2031
2033
2035
2037
2039
2041
2043
2045
2047
2049
Crystal River 4 & 5

Florida- Fall 2019 IRP Refresh Update - Coal

No Carbon **High Commodity Price**

** Indicates unit capability constraints prevented selection of 100% of the lowest cost alternative

DELIVERED COST ($/MMBTU)

Station	Lowest Cost Alternatives	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Crystal River 4 & 5	A 50%/50% blend of IL-OH Rvr 11,500 5# & IL-OH Rvr 11,000 6# 2019-2030, and a 30%/60%/10% blend of IL-OH Rvr 11,500 5#, IL-OH Rvr 11,000 6#, & NAPP Rail 113,0004# coal 2031-2050**	$2.27	$2.30	$2.52	$2.59	$2.72	$2.84	$3.18	$3.29	$3.38	$3.47	$3.51	$3.65	$4.04	$4.18	$4.33	$4.47	$4.51	$4.61	$4.77	$4.91	$5.09	$5.26	$5.42	$5.58	$5.75	$5.92	$6.04	$6.21	$6.40	$6.56	$6.72	$6.88

BTU	Minimum BTU Limit	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Crystal River 4 & 5	10,700	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350

SO2 (#/mmbtu)	Max SO2 Limit	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Crystal River 4 & 5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5

ASH	Max Ash Limit	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Crystal River 4 & 5	13%	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8

MERCURY (Hg) - ppm dry	Max Mercury (Hg) Limit	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Crystal River 4 & 5	NA	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104

CHLORINE % AR	Max Chlorine Limit - ppm	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Crystal River 4 & 5	0.25%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%

Market - COB 10/16/2019										esc@2.5%																							
CRN		$2.03	$2.12	$2.18	$2.26	$2.43	$2.50	$2.56	$2.56	$2.63	$2.69																						
Blend																																	
Market		100%	100%	100%	100%	100%	89%	69%	49%	29%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Fundamentals		0%	0%	0%	0%	0%	11%	31%	51%	71%	91%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Final Forecast																																	
CRN		$2.03	$2.12	$2.18	$2.26	$2.43	$2.53	$2.75	$2.93	$3.16	$3.40	$3.51	$3.65	$4.04	$4.18	$4.33	$4.47	$4.51	$4.61	$4.77	$4.91	$5.09	$5.26	$5.42	$5.58	$5.75	$5.92	$6.04	$6.21	$6.40	$6.56	$6.72	$6.88

Florida- Fall 2019 IRP Refresh Update - Coal No Carbon

LOWEST COST ALTERNATIVE (Delivered $/mmbtu)

		Limits:	Min BTU	Max SO2	Max Ash	Max Cl	Cost ($/mmbtu):	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
								$2.27	$2.30	$2.52	$2.59	$2.72	$2.84	$3.18	$3.29	$3.38	$3.47	$3.51	$3.65	$4.04	$4.18	$4.33	$4.47	$4.51	$4.61	$4.77	$4.91	$5.09	$5.26	$5.42
Crystal River 4 & 5	A 50%/50% blend of IL-OH Rvr 11,500 5# & IL-OH Rvr 11,000 6#		10,700	5.5	13.0%	0.25%	BTU/lb:	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350
	2019-2030, and a 30%/60%/10% blend of IL-OH Rvr 11,500 5#, IL-OH Rvr 11,000 6#, & NAPP Rail 113,0004# coal 2031-2050**																													
							SO2 (#/mmbtu):	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47
							Ash (%):	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
							Hg (ppm - dry):	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104
							Chlorine %AR	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%
							Delta to Single Lowest Cost Alternative:	$0.03	$0.03	$0.03	$0.04	$0.03	$0.04	$0.03	$0.03	$0.03	$0.03	$0.03	$0.13	$0.26	$0.27	$0.27	$0.27	$0.29	$0.28	$0.27	$0.28	$0.29	$0.29	$0.30

SELECTED PERCENTAGES

Station	Basin	Coal Type	FOB Point	Btu/lb	#SO2/MMBtu	%Ash	Hg (ppm - dry)	Chlorine % AR	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
Crystal River 4&5	NAPP	Pittsburgh Seam	Rail	13,000	4	8	0.122	0.10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
Crystal River 4&5	NAPP	Pittsburgh Seam	Barge	13,000	4	8	0.122	0.10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	CAPP	Low-Sulfur	Rail	12,500	1.6	10	0.110	0.10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	CAPP	Low-Sulfur	Barge	12,500	1.67	10	0.110	0.10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Illinois	Rail	11,500	5	10	0.102	0.30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Illinois	Barge	11,500	5	10	0.102	0.15%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%
Crystal River 4&5	ILB	Illinois	Rail	11,500	5	10	0.102	0.12%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Illinois	Barge	11,000	6	10	0.102	0.10%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%
Crystal River 4&5	ILB	Illinois	Rail	11,000	6	10	0.102	0.15%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Illinois	Barge	11,800	4.5	10	0.102	0.20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Illinois	Barge	11,800	4.5	10	0.102	0.20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Low Chlorine	Barge	11,500	5.2	10	0.102	0.08%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Low Chlorine	Rail	11,500	5.2	10	0.102	0.08%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	PRB	High-Btu Gillette	Rail	8,800	0.8	5	0.060	0.01%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	RM	Rockies	Rail	11,700	0.8	8	0.040	0.02%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	RM	Rockies	Barge	11,700	0.8	8	0.040	0.02%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
									100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

DELIVERED COST ($/MMBTU)

Single Lowest Cost Alternative:

Station	Basin	Coal Type	FOB Point	Btu/lb	#SO2/MMBtu	%Ash	Hg (ppm - dry)	Chlorine % AR	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
									$2.25	$2.27	$2.49	$2.55	$2.69	$2.81	$3.15	$3.25	$3.34	$3.44	$3.48	$3.52	$3.78	$3.92	$4.06	$4.19	$4.22	$4.34	$4.49	$4.63	$4.81	$4.97	$5.12
Crystal River 4&5	NAPP	Pittsburgh Seam	Rail	13,000	4	8	0.122	0.10%	$2.84	$2.89	$3.25	$3.27	$3.38	$3.43	$3.52	$3.68	$3.77	$3.86	$3.96	$4.04	$4.13	$4.30	$4.39	$4.52	$4.64	$4.58	$4.67	$4.80	$4.95	$5.11	$5.25
Crystal River 4&5	NAPP	Pittsburgh Seam	Barge	13,000	4	8	0.122	0.10%	$2.63	$2.68	$3.02	$3.04	$3.23	$3.27	$3.59	$3.74	$3.85	$3.94	$4.06	$4.15	$4.50	$4.67	$4.77	$4.91	$5.04	$4.99	$5.09	$5.23	$5.39	$5.56	$5.70
Crystal River 4&5	CAPP	Low-Sulfur	Rail	12,500	1.6	10	0.110	0.10%	$3.26	$2.95	$3.53	$3.77	$3.80	$3.98	$4.11	$4.27	$4.41	$4.53	$4.63	$4.75	$4.91	$4.92	$5.11	$5.28	$5.45	$5.66	$5.88	$6.11	$6.11	$6.34	$6.50
Crystal River 4&5	CAPP	Low-Sulfur	Barge	12,500	1.67	10	0.110	0.10%	$3.00	$2.69	$3.26	$3.49	$3.61	$3.78	$4.14	$4.29	$4.45	$4.58	$4.68	$4.81	$5.24	$5.25	$5.46	$5.63	$5.81	$6.03	$6.25	$6.50	$6.50	$6.74	$6.91
Crystal River 4&5	ILB	Illinois	Rail	11,500	5	10	0.102	0.30%	$2.74	$2.77	$3.02	$3.09	$3.13	$3.26	$3.35	$3.48	$3.55	$3.65	$3.69	$3.64	$3.92	$4.06	$4.21	$4.35	$4.38	$4.49	$4.66	$4.80	$4.98	$5.15	$5.31
Crystal River 4&5	ILB	Illinois	Barge	11,500	5	10	0.102	0.15%	$2.30	$2.33	$2.56	$2.62	$2.75	$2.88	$3.21	$3.32	$3.41	$3.51	$3.55	$3.68	$4.07	$4.21	$4.37	$4.51	$4.55	$4.67	$4.83	$4.98	$5.17	$5.34	$5.51
Crystal River 4&5	ILB	Illinois	Rail	11,500	5	10	0.102	0.12%	$2.63	$2.72	$2.97	$3.04	$3.07	$3.21	$3.29	$3.42	$3.50	$3.59	$3.62	$3.58	$3.85	$3.99	$4.14	$4.28	$4.31	$4.42	$4.59	$4.73	$4.91	$5.07	$5.24
Crystal River 4&5	ILB	Illinois	Barge	11,000	6	10	0.102	0.10%	$2.25	$2.27	$2.49	$2.55	$2.69	$2.81	$3.15	$3.25	$3.34	$3.44	$3.48	$3.61	$4.01	$4.15	$4.30	$4.44	$4.47	$4.59	$4.75	$4.90	$5.08	$5.25	$5.41
Crystal River 4&5	ILB	Illinois	Rail	11,000	6	10	0.102	0.15%	$2.59	$2.67	$2.91	$2.98	$3.02	$3.15	$3.24	$3.36	$3.43	$3.52	$3.56	$3.52	$3.78	$3.92	$4.06	$4.19	$4.22	$4.34	$4.49	$4.63	$4.81	$4.97	$5.12
Crystal River 4&5	ILB	Illinois	Barge	11,800	4.5	10	0.102	0.20%	$2.29	$2.31	$2.54	$2.70	$2.85	$2.99	$3.31	$3.43	$3.53	$3.63	$3.67	$3.62	$4.19	$4.34	$4.50	$4.65	$4.68	$4.81	$4.98	$5.14	$5.33	$5.51	$5.69
Crystal River 4&5	ILB	Illinois	Barge	11,800	4.5	10	0.102	0.20%	$2.61	$2.64	$2.84	$2.98	$3.14	$3.29	$3.62	$3.74	$3.85	$3.96	$4.01	$3.97	$4.54	$4.70	$4.88	$5.03	$5.07	$5.20	$5.39	$5.55	$5.76	$5.94	$6.12
Crystal River 4&5	ILB	Low Chlorine	Barge	11,500	5.2	10	0.102	0.08%	$2.38	$2.44	$2.68	$2.85	$3.01	$3.15	$3.49	$3.61	$3.71	$3.82	$3.86	$3.81	$4.40	$4.56	$4.74	$4.89	$4.93	$5.06	$5.24	$5.40	$5.61	$5.80	$5.98
Crystal River 4&5	ILB	Low Chlorine	Rail	11,500	5.2	10	0.102	0.08%	$2.59	$2.65	$2.91	$3.08	$3.14	$3.30	$3.38	$3.51	$3.59	$3.69	$3.73	$3.67	$3.97	$4.12	$4.28	$4.43	$4.45	$4.57	$4.75	$4.90	$5.09	$5.27	$5.45
Crystal River 4&5	PRB	High-Btu Gillette	Rail	8,800	0.8	5	0.060	0.01%	$3.08	$3.13	$3.22	$3.33	$3.39	$3.49	$3.58	$3.69	$3.78	$3.86	$3.96	$4.06	$4.16	$4.26	$4.38	$4.49	$4.60	$4.70	$4.82	$4.95	$5.09	$5.24	$5.37
Crystal River 4&5	RM	Rockies	Rail	11,700	0.8	8	0.040	0.02%	$3.91	$4.03	$4.21	$4.31	$4.43	$4.59	$4.72	$4.79	$4.92	$5.03	$5.17	$5.29	$5.41	$5.56	$5.58	$5.73	$5.88	$6.05	$6.04	$6.21	$6.40	$6.60	$6.75

Florida- Fall 2019 IRP Refresh Update - Coal No Carbon

Duke Internal High Commodity Fundamental Price Forecast*

Source File: Base, Low High Commodity Coal Curves_FL Source Tab: Fundamentals - Ratio Method

From: Michael Quinto

* Internal escalation rate of 2.5% applied starting in 2041 due to escalation rate error in HIS supplied market update (per email from Mike Quinto received 4/25/19)

Updated: 11/6/2019 Michael Quinto

Basin	Coal Type	FOB Point	Btu/lb	#SO2/MMBtu	%Ash	Avg Hg ppm (dry)	Chlorine % AR	INDEX	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
								Inflator 2018 = 1.0>>>	1.000	1.020	1.047	1.073	1.095	1.117	1.139	1.161	1.184	1.207	1.231	1.256	1.281	1.307	1.334	1.360	1.388	1.416	1.444	1.473	1.502	1.531	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500
NAPP	Pittsburgh Seam	Rail	13,000	4.0	8.0	0.122	0.10%	NAPP-Pitt-CSX/NS-MGA-13000-HS-4.0	$46.00	$47.15	$55.78	$55.78	$57.88	$58.40	$60.04	$63.36	$65.19	$66.69	$68.72	$70.16	$71.82	$75.41	$76.98	$79.78	$82.10	$79.75	$81.27	$83.97	$86.96	$90.34	$92.94	$95.62	$98.61	$101.72	$103.39	$106.47	$109.96	$112.50	$115.28	$118.15
NAPP	Pittsburgh Seam	Barge	13,000	4.0	8.0	0.122	0.10%	NAPP-Pitt-Barge-MonR-13000-HS-4.0	$46.00	$47.15	$55.78	$55.78	$57.88	$58.40	$60.04	$63.36	$65.19	$66.69	$68.72	$70.16	$71.82	$75.41	$76.98	$79.78	$82.10	$79.75	$81.27	$83.97	$86.96	$90.34	$92.94	$95.62	$98.61	$101.72	$103.39	$106.47	$109.96	$112.50	$115.28	$118.15
CAPP	Low-Sulfur	Rail	12,500	1.6	10.0	0.110	0.10%	CAPP-EKY-CSX-Big Sandy-12500-LS-1.6	$57.39	$49.42	$63.51	$68.93	$69.03	$72.82	$75.34	$78.76	$81.72	$84.12	$85.97	$88.48	$91.83	$91.32	$95.65	$99.08	$102.77	$107.31	$112.12	$117.25	$116.48	$121.42	$124.89	$127.80	$130.65	$134.46	$136.22	$139.72	$143.77	$146.70	$149.92	$153.24
CAPP	Low-Sulfur	Barge	12,500	1.6	10.0	0.110	0.10%	CAPP-EKY-Barge-BSR-12000-LS-1.6	$57.39	$49.42	$63.51	$68.93	$69.03	$72.82	$75.34	$78.76	$81.72	$84.12	$85.97	$88.48	$91.83	$91.32	$95.65	$99.08	$102.77	$107.31	$112.12	$117.25	$116.48	$121.42	$124.89	$127.80	$130.65	$134.46	$136.22	$139.72	$143.77	$146.70	$149.92	$153.24
ILB	Illinois	Rail	11,500	5.0	10.0	0.102	0.30%	ILLB-IL-Rail-South IL-11500-VH-5	$40.03	$40.60	$45.77	$46.92	$47.22	$49.76	$51.09	$53.33	$54.59	$56.24	$56.52	$54.95	$60.67	$63.33	$66.26	$68.80	$68.84	$70.89	$74.03	$76.61	$80.16	$83.34	$86.40	$89.26	$92.49	$95.74	$97.71	$100.96	$104.61	$107.34	$110.30	$113.32
ILB	Illinois	Barge	11,500	5.0	10.0	0.102	0.15%	ILLB-IL-Barge-OhioR-11500-VH-5	$40.03	$40.60	$45.77	$46.92	$47.22	$49.76	$51.09	$53.33	$54.59	$56.24	$56.52	$59.06	$60.67	$63.33	$66.26	$68.80	$68.84	$70.89	$74.03	$76.61	$80.16	$83.34	$86.40	$89.26	$92.49	$95.74	$97.71	$100.96	$104.61	$107.34	$110.30	$113.32
ILB	Illinois	Rail	11,500	5.0	10.0	0.102	0.12%	ILLB-IN-Rail-Sullivan-11500-VH-5	$40.03	$40.60	$45.77	$46.92	$47.22	$49.76	$51.09	$53.33	$54.59	$56.24	$56.52	$54.95	$60.67	$63.33	$66.26	$68.80	$68.84	$70.89	$74.03	$76.61	$80.16	$83.34	$86.40	$89.26	$92.49	$95.74	$97.71	$100.96	$104.61	$107.34	$110.30	$113.32
ILB	Illinois	Barge	11,000	6.0	10.0	0.102	0.10%	ILLB-WKY-Barge-OhioR-11000-XH-6	$36.58	$36.97	$41.68	$42.72	$43.00	$45.31	$46.52	$48.56	$49.71	$51.22	$51.47	$53.78	$55.25	$57.67	$60.34	$62.65	$62.69	$64.55	$67.41	$69.77	$73.00	$75.89	$78.68	$81.28	$84.22	$87.18	$88.98	$91.94	$95.26	$97.74	$100.44	$103.19
ILB	Illinois	Rail	11,000	6.0	10.0	0.102	0.15%	ILLB-IN-Rail-Sullivan-11000-XH-6	$36.58	$36.97	$41.68	$42.72	$43.00	$45.31	$46.52	$48.56	$49.71	$51.22	$51.47	$50.04	$55.25	$57.67	$60.34	$62.65	$62.69	$64.55	$67.41	$69.77	$73.00	$75.89	$78.68	$81.28	$84.22	$87.18	$88.98	$91.94	$95.26	$97.74	$100.44	$103.19
ILB	Illinois	Rail	11,000	6.0	10.0	0.102	0.15%	ILLB-IL-Rail-Central IL-11000-XH-6	$36.58	$36.97	$41.68	$42.72	$43.00	$45.31	$46.52	$48.56	$49.71	$51.22	$51.47	$50.04	$55.25	$57.67	$60.34	$62.65	$62.69	$64.55	$67.41	$69.77	$73.00	$75.89	$78.68	$81.28	$84.22	$87.18	$88.98	$91.94	$95.26	$97.74	$100.44	$103.19
ILB	Illinois	Barge	11,800	4.5	10.0	0.102	0.20%	ILLB-WKY-Barge-Green River-11800-XH-4.5	$41.15	$41.58	$46.78	$50.27	$51.19	$54.10	$55.54	$57.98	$59.35	$61.15	$61.45	$59.74	$65.96	$68.85	$72.04	$74.80	$74.84	$77.06	$80.48	$83.29	$87.15	$90.61	$93.93	$97.04	$100.55	$104.09	$106.23	$109.76	$113.73	$116.69	$119.91	$123.20
ILB	Illinois	Barge	11,800	4.5	10.0	0.102	0.20%	ILLB-WKY-Barge-OhioR-11800-XH-4.5	$41.15	$41.58	$46.78	$50.27	$51.19	$54.10	$55.54	$57.98	$59.35	$61.15	$61.45	$59.74	$65.96	$68.85	$72.04	$74.80	$74.84	$77.06	$80.48	$83.29	$87.15	$90.61	$93.93	$97.04	$100.55	$104.09	$106.23	$109.76	$113.73	$116.69	$119.91	$123.20
ILB	Low Chlorine	Barge	11,500	5.2	10.0	0.102	0.08%	ILLB-WKY-Barge-OhioR-11500-VH-5.2-LC-.8	$41.86	$43.10	$48.49	$52.11	$53.06	$56.07	$57.57	$60.10	$61.52	$63.38	$63.69	$61.93	$68.37	$71.37	$74.67	$77.53	$77.58	$79.88	$83.42	$86.33	$90.33	$93.92	$97.36	$100.59	$104.23	$107.89	$110.11	$113.77	$117.88	$120.95	$124.29	$127.69
ILB	Low Chlorine	Rail	11,500	5.2	10.0	0.102	0.08%	ILLB-WKY-CSX-WKY-11500-VH-5.2-LC-.8	$41.86	$43.10	$48.49	$52.11	$53.06	$56.07	$57.57	$60.10	$61.52	$63.38	$63.69	$61.93	$68.37	$71.37	$74.67	$77.53	$77.58	$79.88	$83.42	$86.33	$90.33	$93.92	$97.36	$100.59	$104.23	$107.89	$110.11	$113.77	$117.88	$120.95	$124.29	$127.69
PRB	High-Btu Gillette	Rail	8,800	0.8	5.0	0.060	0.01%	PRB-WY-BN/UP-Gillette-8800-CS-0.8	$12.21	$12.68	$13.24	$14.20	$14.19	$14.78	$15.24	$15.93	$16.54	$17.06	$17.72	$18.55	$19.13	$19.88	$20.81	$21.72	$22.51	$23.02	$24.06	$25.14	$26.31	$27.62	$28.67	$29.72	$30.91	$32.18	$33.06	$34.41	$35.96	$37.24	$38.66	$40.16
RM	Rockies	Rail	11,700	0.8	8.0	0.040	0.02%	Rockies-CO-UP-North Fork-11700-CS-.8	$32.54	$34.86	$37.76	$38.60	$39.77	$42.08	$43.54	$43.54	$45.07	$46.38	$48.08	$49.39	$50.86	$52.78	$51.81	$53.75	$55.63	$57.96	$55.90	$58.32	$60.99	$63.98	$65.49	$67.71	$70.11	$72.51	$73.80	$76.20	$78.88	$80.84	$82.98	$85.18
RM	Rockies	Barge	11,700	0.8	8.0	0.040	0.02%	Rockies-CO-UP-North Fork-11700-CS-.8	$32.54	$34.86	$37.76	$38.60	$39.77	$42.08	$43.54	$43.54	$45.07	$46.38	$48.08	$49.39	$50.86	$52.78	$51.81	$53.75	$55.63	$57.96	$55.90	$58.32	$60.99	$63.98	$65.49	$67.71	$70.11	$72.51	$73.80	$76.20	$78.88	$80.84	$82.98	$85.18

Price Forecast Received from Andrew James via e-mail on 9/17/19 (Nominal $/ton) **

Reviewed transportation delivery locations with Shawn Shultz, Manager Coal Transportation 10/2018

With ILB Curve Updates from NEW ILB file received 10/4

CSX Rate Master Updated: 10/2/2019 tw **Post 2026 escalation:** 2.0% **Source:** \\cltpsmf02\fuelpur\PLANNING\IRP Refresh Files\2019 Fall IRP Refresh\Supporting Files\DEF Florida CSX Conventional Rail Rate Scenario_100219.xlsm

			CAPP					NAPP				ILB						Energy, CO	ConJunction, WY						
Key	Station	Year	Typo, KY	Resource, KY	Phillips, WV	Bull Creek 2, WV	Hutchinson, WV	Harrison Co, WV	Bailey Mine, PA	Marion Co, WV	Monongalia Co, WV	Evansville, IN	White Oak, IL	Oaktown,IN	Carlisle, IN	BearRun,IN	Cardinal 9, KY	CSX UP	CSX PRB	CSX CAPP Basin	CSX NAPP Basin	CSX ILB Basin	CSX CN Galatia	CSX Sullivan	CSX Western KY
Crystal River 4&5 2019	Crystal River 4&5	**2019**	$23.51	$20.13	$27.82	$24.57	$25.13	$28.51	$29.55	$26.09	$27.50	$21.29	$23.01	$21.31	$20.96	$22.83	$17.78	$58.88	$41.98	$24.23	$27.91	$21.20	$23.01	$20.40	$17.78
Crystal River 4&5 2020	Crystal River 4&5	2020	$23.51	$20.13	$27.82	$24.57	$25.13	$28.51	$29.55	$26.09	$27.50	$21.29	$23.01	$21.31	$20.96	$22.83	$17.94	$59.41	$42.36	$24.23	$27.91	$21.23	$23.01	$21.88	$17.94
Crystal River 4&5 2021	Crystal River 4&5	2021	$24.11	$20.65	$28.57	$25.21	$25.78	$29.24	$30.32	$26.75	$28.20	$21.84	$23.60	$21.84	$21.48	$23.39	$18.38	$60.85	$43.39	$24.86	$28.63	$21.75	$23.60	$22.43	$18.38
Crystal River 4&5 2022	Crystal River 4&5	2022	$24.62	$21.08	$29.10	$25.73	$26.31	$29.86	$30.93	$27.34	$28.81	$22.30	$24.10	$22.34	$21.99	$23.95	$18.82	$62.32	$44.44	$25.37	$29.23	$22.25	$24.10	$22.94	$18.82
Crystal River 4&5 2023	Crystal River 4&5	2023	$25.23	$21.60	$29.84	$26.37	$26.97	$30.60	$31.71	$28.01	$29.52	$22.86	$24.70	$22.89	$22.52	$24.53	$19.28	$63.83	$45.51	$26.00	$29.96	$22.80	$24.70	$23.50	$19.28
Crystal River 4&5 2024	Crystal River 4&5	2024	$25.88	$22.16	$30.64	$27.06	$27.67	$31.39	$32.54	$28.72	$30.27	$23.45	$25.33	$23.46	$23.07	$25.13	$19.74	$65.38	$46.61	$26.68	$30.73	$23.36	$25.33	$24.09	$19.74
Crystal River 4&5 2025	Crystal River 4&5	2025	$26.52	$22.71	$31.41	$27.73	$28.35	$32.16	$33.35	$29.43	$31.02	$24.03	$25.96	$24.03	$23.63	$25.74	$20.22	$66.96	$47.74	$27.35	$31.49	$23.93	$25.96	$24.68	$20.22
Crystal River 4&5 2026	Crystal River 4&5	2026	$27.19	$23.28	$32.20	$28.42	$29.06	$32.97	$34.19	$30.16	$31.80	$24.63	$26.61	$24.63	$24.23	$26.38	$20.73	$68.64	$48.94	$28.03	$32.28	$24.53	$26.61	$25.29	$20.73
Crystal River 4&5 2027	Crystal River 4&5	2027	$27.73	$23.75	$32.84	$28.99	$29.64	$33.63	$34.87	$30.76	$32.43	$25.12	$27.14	$25.12	$24.71	$26.91	$21.14	$70.01	$49.92	$28.59	$32.92	$25.02	$27.14	$25.80	$21.14
Crystal River 4&5 2028	Crystal River 4&5	2028	$28.28	$24.22	$33.50	$29.57	$30.24	$34.30	$35.57	$31.38	$33.08	$25.62	$27.68	$25.63	$25.20	$27.45	$21.56	$71.41	$50.91	$29.16	$33.58	$25.52	$27.68	$26.32	$21.56
Crystal River 4&5 2029	Crystal River 4&5	2029	$28.85	$24.71	$34.17	$30.16	$30.84	$34.99	$36.28	$32.01	$33.74	$26.13	$28.24	$26.14	$25.71	$27.99	$21.99	$72.84	$51.93	$29.75	$34.25	$26.03	$28.24	$26.84	$21.99
Crystal River 4&5 2030	Crystal River 4&5	2030	$29.43	$25.20	$34.85	$30.76	$31.46	$35.69	$37.00	$32.65	$34.42	$26.66	$28.80	$26.66	$26.22	$28.55	$22.43	$74.29	$52.97	$30.34	$34.94	$26.56	$28.80	$27.38	$22.43
Crystal River 4&5 2031	Crystal River 4&5	2031	$30.02	$25.70	$35.55	$31.38	$32.09	$36.40	$37.74	$33.30	$35.10	$27.19	$29.38	$27.20	$26.75	$29.13	$22.88	$75.78	$54.03	$30.95	$35.64	$27.09	$29.38	$27.93	$22.88
Crystal River 4&5 2032	Crystal River 4&5	2032	$30.62	$26.22	$36.26	$32.01	$32.73	$37.13	$38.50	$33.97	$35.81	$27.73	$29.96	$27.74	$27.28	$29.71	$23.34	$77.30	$55.11	$31.57	$36.35	$27.63	$29.96	$28.49	$23.34
Crystal River 4&5 2033	Crystal River 4&5	2033	$31.23	$26.74	$36.99	$32.65	$33.38	$37.87	$39.27	$34.65	$36.52	$28.29	$30.56	$28.29	$27.83	$30.30	$23.81	$78.84	$56.21	$32.20	$37.08	$28.18	$30.56	$29.06	$23.81
Crystal River 4&5 2034	Crystal River 4&5	2034	$31.85	$27.28	$37.73	$33.30	$34.05	$38.63	$40.05	$35.34	$37.25	$28.85	$31.18	$28.86	$28.38	$30.91	$24.28	$80.42	$57.34	$32.84	$37.82	$28.74	$31.18	$29.64	$24.28
Crystal River 4&5 2035	Crystal River 4&5	2035	$32.49	$27.82	$38.48	$33.97	$34.73	$39.40	$40.86	$36.05	$38.00	$29.43	$31.80	$29.44	$28.95	$31.53	$24.77	$82.03	$58.48	$33.50	$38.57	$29.32	$31.80	$30.23	$24.77
Crystal River 4&5 2036	Crystal River 4&5	2036	$33.14	$28.38	$39.25	$34.65	$35.43	$40.19	$41.67	$36.77	$38.76	$30.02	$32.43	$30.03	$29.53	$32.16	$25.27	$83.67	$59.65	$34.17	$39.35	$29.91	$32.43	$30.83	$25.27
Crystal River 4&5 2037	Crystal River 4&5	2037	$33.80	$28.95	$40.04	$35.34	$36.14	$40.99	$42.51	$37.50	$39.53	$30.62	$33.08	$30.63	$30.12	$32.80	$25.77	$85.34	$60.85	$34.85	$40.13	$30.50	$33.08	$31.45	$25.77
Crystal River 4&5 2038	Crystal River 4&5	2038	$34.48	$29.53	$40.84	$36.05	$36.86	$41.81	$43.36	$38.25	$40.32	$31.23	$33.75	$31.24	$30.72	$33.46	$26.29	$87.05	$62.06	$35.55	$40.94	$31.11	$33.75	$32.08	$26.29
Crystal River 4&5 2039	Crystal River 4&5	2039	$35.17	$30.12	$41.65	$36.77	$37.60	$42.65	$44.22	$39.02	$41.13	$31.86	$34.42	$31.86	$31.34	$34.13	$26.81	$88.79	$63.30	$36.26	$41.75	$31.74	$34.42	$32.72	$26.81
Crystal River 4&5 2040	Crystal River 4&5	2040	$35.87	$30.72	$42.49	$37.50	$38.35	$43.50	$45.11	$39.80	$41.95	$32.49	$35.11	$32.50	$31.97	$34.81	$27.35	$90.56	$64.57	$36.98	$42.59	$32.37	$35.11	$33.38	$27.35
Crystal River 4&5 2041	Crystal River 4&5	2041	$36.59	$31.33	$43.34	$38.25	$39.11	$44.37	$46.01	$40.59	$42.79	$33.14	$35.81	$33.15	$32.60	$35.50	$27.89	$92.38	$65.86	$37.72	$43.44	$33.02	$35.81	$34.04	$27.89
Crystal River 4&5 2042	Crystal River 4&5	2042	$37.32	$31.96	$44.20	$39.02	$39.90	$45.26	$46.93	$41.40	$43.65	$33.81	$36.53	$33.81	$33.26	$36.21	$28.45	$94.22	$67.18	$38.48	$44.31	$33.68	$36.53	$34.72	$28.45
Crystal River 4&5 2043	Crystal River 4&5	2043	$38.07	$32.60	$45.09	$39.80	$40.69	$46.16	$47.87	$42.23	$44.52	$34.48	$37.26	$34.49	$33.92	$36.94	$29.02	$96.11	$68.52	$39.25	$45.20	$34.35	$37.26	$35.42	$29.02
Crystal River 4&5 2044	Crystal River 4&5	2044	$38.83	$33.25	$45.99	$40.59	$41.51	$47.09	$48.83	$43.08	$45.41	$35.17	$38.00	$35.18	$34.60	$37.68	$29.60	$98.03	$69.89	$40.03	$46.10	$35.04	$38.00	$36.13	$29.60
Crystal River 4&5 2045	Crystal River 4&5	2045	$39.60	$33.92	$46.91	$41.40	$42.34	$48.03	$49.80	$43.94	$46.32	$35.88	$38.76	$35.88	$35.29	$38.43	$30.19	$99.99	$71.29	$40.83	$47.02	$35.74	$38.76	$36.85	$30.19
Crystal River 4&5 2046	Crystal River 4&5	2046	$40.40	$34.59	$47.85	$42.23	$43.19	$48.99	$50.80	$44.82	$47.25	$36.59	$39.54	$36.60	$36.00	$39.20	$30.80	$101.99	$72.72	$41.65	$47.96	$36.45	$39.54	$37.59	$30.80
Crystal River 4&5 2047	Crystal River 4&5	2047	$41.20	$35.29	$48.80	$43.08	$44.05	$49.97	$51.81	$45.71	$48.19	$37.32	$40.33	$37.33	$36.72	$39.98	$31.41	$104.03	$74.17	$42.48	$48.92	$37.18	$40.33	$38.34	$31.41
Crystal River 4&5 2048	Crystal River 4&5	2048	$42.03	$35.99	$49.78	$43.94	$44.93	$50.97	$52.85	$46.63	$49.15	$38.07	$41.14	$38.08	$37.45	$40.78	$32.04	$106.11	$75.65	$43.33	$49.90	$37.93	$41.14	$39.10	$32.04
Crystal River 4&5 2049	Crystal River 4&5	2049	$42.87	$36.71	$50.78	$44.82	$45.83	$51.99	$53.91	$47.56	$50.14	$38.83	$41.96	$38.84	$38.20	$41.60	$32.68	$108.23	$77.17	$44.20	$50.90	$38.69	$41.96	$39.89	$32.68
Crystal River 4&5 2050	Crystal River 4&5	2050	$43.73	$37.45	$51.79	$45.71	$46.75	$53.03	$54.99	$48.51	$51.14	$39.61	$42.80	$39.62	$38.97	$42.43	$33.34	$110.40	$78.71	$45.08	$51.92	$39.46	$42.80	$40.68	$33.34

Misc Rates

5 Year Escalation Rate 2.0%

Base Rail Rates ($/ton)

	Cora	Cook	Calvert City	Houston	Crystal River
Twenty Mile	$29.00	$30.75	$32.00	$34.25	$58.25
West Elk	$30.50	$32.25	$33.50	$35.75	$59.25
Bowie	$30.50	$32.25	$33.50	$35.75	$59.25

Total Rate ($/ton)

	Cora	Cook	Calvert City	Houston	Crystal River
Twenty Mile	$30.92	$32.86	$34.16	$36.65	$62.87
West Elk	$32.58	$34.49	$35.82	$38.31	$64.09
Bowie	$32.58	$34.49	$35.82	$38.31	$64.09

Mileage

	Cora	Cook	Calvert City	Houston	Crystal River
Twenty Mile	1203	1321	1349	1500	2100
West Elk	1300	1400	1450	1600	2200
Bowie	1300	1400	1450	1600	2200

UP 0.16 $/ton-mile HDF Price

CSX 0.22 $/ton-mile 2.858 $/gallon

Barge Rate Master Updated: 10/2/2019 tw **Post 2024 escalation:** 2.0% **Source:** \\cltpsmf02\FuelPUR\Planning\IRP Refresh Files\Fall 2019 IRP Refresh\Supporting Files\Fall 2019 FLORIDA BARGE FOF_Working File_Fixed Costs Removed through 2024

Key	Station2	Year	Barge CAPP Basin	Barge NAPP Pitt 8	Barge NAPP OH MP100	Barge ILB Green River	Barge ILB OH River	Barge UP RM to Convent	Mt Vernon	Calvert City
Crystal River 4&5 2019	Crystal River 4&5	2019	$17.67	$22.29	$18.67	$20.46	$12.83	$51.92	$12.20	$13.55
Crystal River 4&5 2020	Crystal River 4&5	2020	$17.90	$22.58	$18.90	$20.72	$12.99	$53.46	$12.36	$13.73
Crystal River 4&5 2021	Crystal River 4&5	2021	$18.05	$22.77	$19.06	$20.22	$13.10	$54.56	$12.46	$13.84
Crystal River 4&5 2022	Crystal River 4&5	2022	$18.42	$23.24	$19.46	$20.15	$13.37	$55.48	$12.72	$14.13
Crystal River 4&5 2023	Crystal River 4&5	2023	$21.26	$26.18	$22.32	$23.03	$16.10	$56.57	$17.87	$19.31
Crystal River 4&5 2024	Crystal River 4&5	2024	$21.71	$26.74	$22.79	$23.52	$16.44	$57.74	$18.25	$19.72
Crystal River 4&5 2025	Crystal River 4&5	2025	$28.06	$33.19	$29.16	$29.90	$22.67	$64.83	$30.40	$31.90
Crystal River 4&5 2026	Crystal River 4&5	2026	$28.51	$33.77	$29.64	$30.40	$23.00	$66.03	$30.69	$32.23
Crystal River 4&5 2027	Crystal River 4&5	2027	$29.51	$34.91	$30.67	$31.45	$23.85	$67.64	$31.98	$33.56
Crystal River 4&5 2028	Crystal River 4&5	2028	$30.27	$35.82	$31.46	$32.26	$24.45	$69.00	$32.74	$34.36
Crystal River 4&5 2029	Crystal River 4&5	2029	$31.05	$36.76	$32.28	$33.10	$25.07	$70.38	$33.52	$35.18
Crystal River 4&5 2030	Crystal River 4&5	2030	$31.80	$37.66	$33.06	$33.90	$25.67	$71.78	$34.28	$35.99
Crystal River 4&5 2031	Crystal River 4&5	2031	$39.14	$45.12	$40.43	$41.29	$32.88	$79.90	$48.34	$50.09
Crystal River 4&5 2032	Crystal River 4&5	2032	$39.99	$46.10	$41.30	$42.18	$33.60	$81.55	$49.42	$51.20
Crystal River 4&5 2033	Crystal River 4&5	2033	$40.79	$47.03	$42.13	$43.03	$34.27	$83.16	$50.38	$52.20
Crystal River 4&5 2034	Crystal River 4&5	2034	$41.61	$47.97	$42.98	$43.90	$34.95	$84.79	$51.35	$53.21
Crystal River 4&5 2035	Crystal River 4&5	2035	$42.52	$49.02	$43.92	$44.85	$35.72	$86.55	$52.50	$54.40
Crystal River 4&5 2036	Crystal River 4&5	2036	$43.36	$50.00	$44.79	$45.75	$36.42	$88.25	$53.51	$55.45
Crystal River 4&5 2037	Crystal River 4&5	2037	$44.24	$51.01	$45.70	$46.67	$37.15	$89.98	$54.55	$56.53
Crystal River 4&5 2038	Crystal River 4&5	2038	$45.22	$52.14	$46.70	$47.70	$37.97	$91.84	$55.78	$57.80
Crystal River 4&5 2039	Crystal River 4&5	2039	$46.13	$53.20	$47.65	$48.67	$38.73	$93.64	$56.86	$58.93
Crystal River 4&5 2040	Crystal River 4&5	2040	$47.06	$54.28	$48.61	$49.65	$39.50	$95.49	$57.97	$60.08
Crystal River 4&5 2041	Crystal River 4&5	2041	$47.93	$55.25	$49.50	$50.56	$40.25	$97.46	$59.16	$61.30
Crystal River 4&5 2042	Crystal River 4&5	2042	$48.91	$56.40	$50.52	$51.60	$41.07	$99.37	$60.32	$62.50
Crystal River 4&5 2043	Crystal River 4&5	2043	$49.92	$57.57	$51.56	$52.66	$41.90	$101.33	$61.50	$63.74
Crystal River 4&5 2044	Crystal River 4&5	2044	$50.85	$58.63	$52.53	$53.65	$42.71	$103.42	$62.77	$65.04
Crystal River 4&5 2045	Crystal River 4&5	2045	$51.93	$59.88	$53.64	$54.79	$43.61	$105.49	$64.07	$66.39
Crystal River 4&5 2046	Crystal River 4&5	2046	$52.84	$60.91	$54.58	$55.74	$44.39	$107.60	$65.26	$67.62
Crystal River 4&5 2047	Crystal River 4&5	2047	$53.95	$62.20	$55.73	$56.92	$45.32	$109.75	$66.61	$69.01
Crystal River 4&5 2048	Crystal River 4&5	2048	$55.09	$63.52	$56.90	$58.12	$46.27	$111.95	$67.98	$70.44
Crystal River 4&5 2049	Crystal River 4&5	2049	$56.04	$64.60	$57.88	$59.12	$47.08	$114.19	$69.24	$71.73
Crystal River 4&5 2050	Crystal River 4&5	2050	$57.22	$65.97	$59.10	$60.36	$48.07	$116.47	$70.66	$73.21

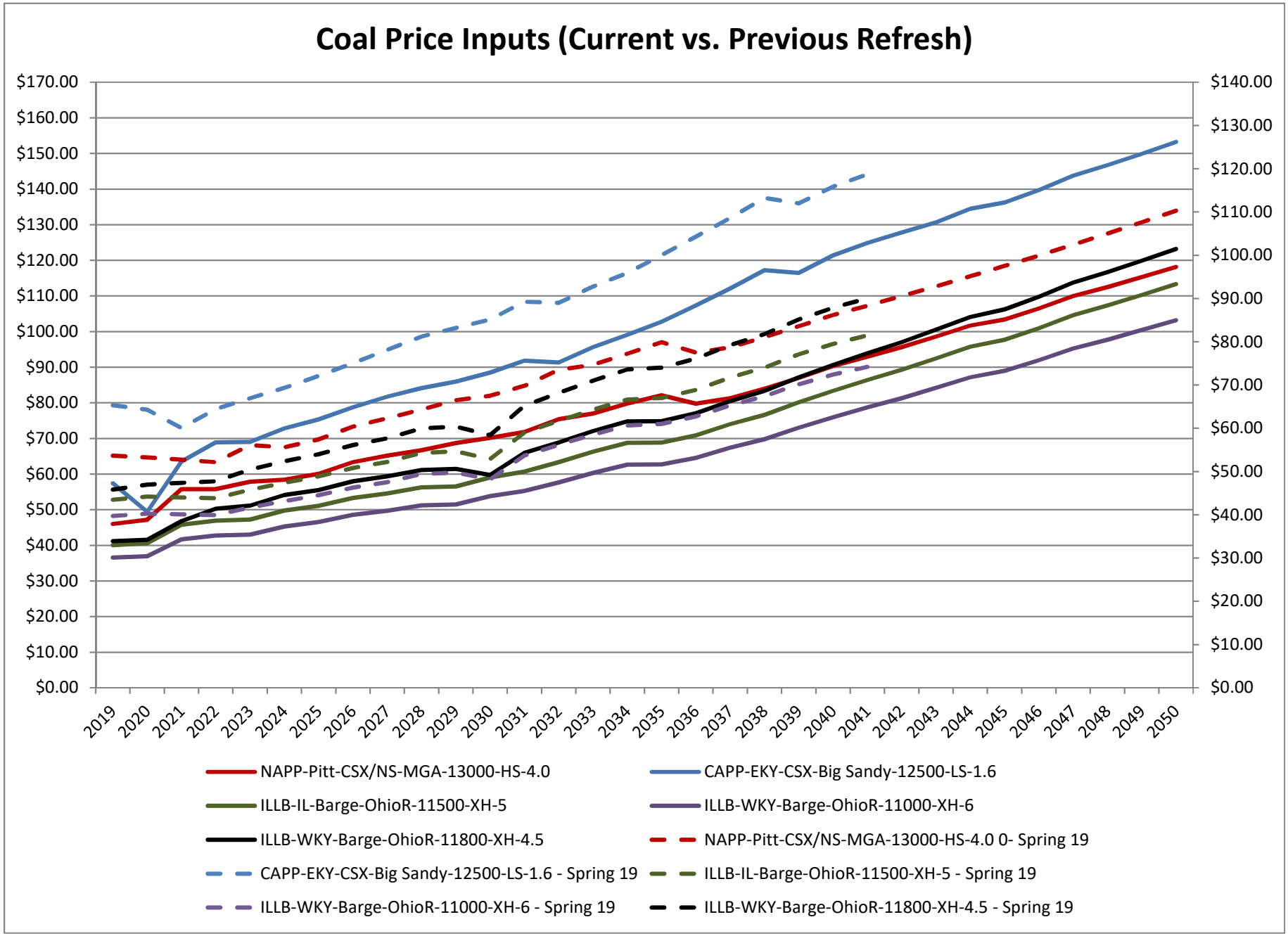
Rail Assumptions

1) CSX CAPP, NAPP, ILB and Western PRB/RM rates updated based on CSX indicitive bid received 8/2019
2) CSX West Kentucky equals CSX indicitive bid received 8/2019 for Cardinal 9, KY
3) CSX Galatia rate equals CSX indicitive bid received 8/2019 for White Oak
4) CSX Sullivan rate equals average CSX indicitive bid for ILB excluding Cardinal 9, KY received 8/2019
9) CSX UP (RM) equals CSX indicitive bid received 8/2019 including BSNF piece
10) CSX PRB equals CSX indicitive bid received 8/2019 including BSNF piece
11) Delivery of ILB 11,000 6# would typically be out of Central IL. ILB 11,000 6# transportation selection of CSX Sullivan based off of Peabody Bear Run 2017 Fall Term RFP offer. However, Station can not currently do a rail direct move as there is no on-site blending capabilities which would be needed to meet SO2 constraints

Barge Assumptions

12) Barge UP RM to Convent rate is the current UP agreement through 9/18 escalated at 5% (with Fuel Surcharge calculations based on COB 9/12/19 WTI fuel pricing), plus the current rates for the Convent Terminal fees which expired 12/31/18 escalated at 2% and Gulf Barge rates through 12/18 escalating 2% annually starting Jan 2025 through 2050.
13) Delivery of 11,800 4.5# coals would typically be off the Green River. Currently have a contract delivering off the Ohio.
14) ILB 11,000 6# transportation selection of OH River based off of Peabody bids going through Cora Terminal
15) Fixed cross-gulf costs excluded from transportation rates through FOF study period, Fees for one cross-gulf barge added 1/1/25. Second cross-gulf barge added 1/1/31. Variable cost to mid-stream coal from the river to the gulf is included starting 1/1/23 and is based off the current AT rate escalated at 2%. Mirrors current FOF assumptions.

Current FOF Gulf Barge assumptions: Margo Dale terminated 12/31/20, Winna Wilson assumed in-service through 12/31/23


Coal Price Inputs (Current vs. Previous Refresh)
$170.00
$160.00
$150.00
$140.00
$130.00
$120.00
$110.00
$100.00
$90.00
$80.00
$70.00
$60.00
$50.00
$40.00
$30.00
$20.00
$10.00
$0.00
$140.00
$130.00
$120.00
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NAPP-Pitt-CSX/NS-MGA-13000-HS-4.0
CAPP-EKY-CSX-Big Sandy-12500-LS-1.6
ILLB-IL-Barge-OhioR-11500-XH-5
ILLB-WKY-Barge-OhioR-11000-XH-6
ILLB-WKY-Barge-OhioR-11800-XH-4.5
NAPP-Pitt-CSX/NS-MGA-13000-HS-4.0 0- Spring 19
CAPP-EKY-CSX-Big Sandy-12500-LS-1.6 - Spring 19
ILLB-IL-Barge-OhioR-11500-XH-5 - Spring 19
ILLB-WKY-Barge-OhioR-11000-XH-6 - Spring 19
ILLB-WKY-Barge-OhioR-11800-XH-4.5 - Spring 19

Florida- Spring 2019 IRP Refresh Update - Coal No Carbon

CERA Fundamental Price Forecast*

Source File: Fuel-Forecast_Spring_2019_IHS_03292019 Source Tab: Coal Spring 2019

From: Andrew James via e-mail on 3/29/2019 at 12:13 p.m

* Internal escalation rate of 2.5% applied starting in 2041 due to escalation rate error in HIS supplied market update (per email from Mike Quinto received 4/25/19)

Updated: 4/29/2019 Tiffany Weir

Basin	Coal Type	FOB Point	Btu/lb	#SO2/MMBtu	%Ash	Avg Hg ppm (dry)	Chlorine % AR	INDEX	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
								Inflator 2018 = 1.0>>>	1.000	1.020	1.047	1.073	1.095	1.117	1.139	1.161	1.184	1.207	1.231	1.256	1.281	1.307	1.334	1.360	1.388	1.416	1.444	1.473	1.502	1.531	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500
NAPP	Pittsburgh Seam	Rail	13,000	4.0	8.0	0.122	0.10%	NAPP-Pitt-CSX/NS-MGA-13000-HS-4.0- Spring 19	$53.67	$53.25	$52.75	$52.16	$56.11	$55.63	$57.44	$60.38	$62.33	$64.36	$66.48	$67.50	$69.81	$73.47	$74.67	$77.25	$79.90	$77.50	$78.72	$81.11	$83.60	$86.18	$88.34	$90.54	$92.81	$95.13	$97.51	$99.94	$102.44	$105.00	$107.63	$110.32
NAPP	Pittsburgh Seam	Barge	13,000	4.0	8.0	0.122	0.10%	NAPP-Pitt-Barge-MonR-13000-HS-4.0 - Spring 19	$53.67	$53.25	$52.75	$52.16	$56.11	$55.63	$57.44	$60.38	$62.33	$64.36	$66.48	$67.50	$69.81	$73.47	$74.67	$77.25	$79.90	$77.50	$78.72	$81.11	$83.60	$86.18	$88.34	$90.54	$92.81	$95.13	$97.51	$99.94	$102.44	$105.00	$107.63	$110.32
CAPP	Low-Sulfur	Rail	12,500	1.6	10.0	0.110	0.10%	CAPP-EKY-CSX-Big Sandy-12500-LS-1.6 - Spring 19	$65.33	$64.27	$60.06	$64.45	$66.93	$69.35	$72.08	$75.06	$78.13	$81.19	$83.17	$85.13	$89.25	$88.98	$92.77	$95.94	$100.02	$104.28	$108.60	$113.26	$111.99	$115.83	$118.73	$121.69	$124.74	$127.85	$131.05	$134.33	$137.69	$141.13	$144.66	$148.27
CAPP	Low-Sulfur	Barge	12,500	1.6	10.0	0.110	0.10%	CAPP-EKY-Barge-BSR-12000-LS-1.6 - Spring 19	$65.33	$64.27	$60.06	$64.45	$66.93	$69.35	$72.08	$75.06	$78.13	$81.19	$83.17	$85.13	$89.25	$88.98	$92.77	$95.94	$100.02	$104.28	$108.60	$113.26	$111.99	$115.83	$118.73	$121.69	$124.74	$127.85	$131.05	$134.33	$137.69	$141.13	$144.66	$148.27
ILB	Illinois	Rail	11,500	5.0	10.0	0.102	0.30%	ILLB-IL-Rail-South IL-11500-VH-5 - Spring 19	$43.48	$44.19	$44.01	$43.87	$45.79	$47.39	$48.88	$50.82	$52.20	$54.28	$54.68	$52.87	$58.97	$61.71	$64.27	$66.62	$67.00	$68.89	$71.70	$74.01	$77.07	$79.50	$81.49	$83.53	$85.62	$87.76	$89.95	$92.20	$94.51	$96.87	$99.29	$101.77
ILB	Illinois	Barge	11,500	5.0	10.0	0.102	0.15%	ILLB-IL-Barge-OhioR-11500-VH-5 - Spring 19	$43.48	$44.19	$44.01	$43.87	$45.79	$47.39	$48.88	$50.82	$52.20	$54.28	$54.68	$52.87	$58.97	$61.71	$64.27	$66.62	$67.00	$68.89	$71.70	$74.01	$77.07	$79.50	$81.49	$83.53	$85.62	$87.76	$89.95	$92.20	$94.51	$96.87	$99.29	$101.77
ILB	Illinois	Rail	11,500	5.0	10.0	0.102	0.12%	ILLB-IN-Rail-Sullivan-11500-VH-5 - Spring 19	$43.48	$44.19	$44.01	$43.87	$45.79	$47.39	$48.88	$50.82	$52.20	$54.28	$54.68	$52.87	$58.97	$61.71	$64.27	$66.62	$67.00	$68.89	$71.70	$74.01	$77.07	$79.50	$81.49	$83.53	$85.62	$87.76	$89.95	$92.20	$94.51	$96.87	$99.29	$101.77
ILB	Illinois	Barge	11,000	6.0	10.0	0.102	0.10%	ILLB-WKY-Barge-OhioR-11000-XH-6 - Spring 19	$39.73	$40.24	$40.08	$39.95	$41.69	$43.16	$44.51	$46.28	$47.53	$49.43	$49.79	$48.15	$53.70	$56.19	$58.53	$60.66	$61.01	$62.73	$65.29	$67.39	$70.18	$72.40	$74.21	$76.06	$77.97	$79.91	$81.91	$83.96	$86.06	$88.21	$90.42	$92.68
ILB	Illinois	Rail	11,000	6.0	10.0	0.102	0.15%	ILLB-IN-Rail-Sullivan-11000-XH-6 - Spring 19	$39.73	$40.24	$40.08	$39.95	$41.69	$43.16	$44.51	$46.28	$47.53	$49.43	$49.79	$48.15	$53.70	$56.19	$58.53	$60.66	$61.01	$62.73	$65.29	$67.39	$70.18	$72.40	$74.21	$76.06	$77.97	$79.91	$81.91	$83.96	$86.06	$88.21	$90.42	$92.68
ILB	Illinois	Rail	11,000	6.0	10.0	0.102	0.15%	ILLB-IL-Rail-Central IL-11000-XH-6 - Spring 19	$39.73	$40.24	$40.08	$39.95	$41.69	$43.16	$44.51	$46.28	$47.53	$49.43	$49.79	$48.15	$53.70	$56.19	$58.53	$60.66	$61.01	$62.73	$65.29	$67.39	$70.18	$72.40	$74.21	$76.06	$77.97	$79.91	$81.91	$83.96	$86.06	$88.21	$90.42	$92.68
ILB	Illinois	Barge	11,800	4.5	10.0	0.102	0.20%	ILLB-WKY-Barge-Green River-11800-XH-4.5 - Spring 19	$45.83	$46.98	$47.36	$47.77	$50.43	$52.36	$54.00	$56.15	$57.67	$59.97	$60.41	$58.42	$65.15	$68.18	$71.01	$73.60	$74.02	$76.11	$79.22	$81.77	$85.15	$87.84	$90.04	$92.29	$94.59	$96.96	$99.38	$101.87	$104.41	$107.02	$109.70	$112.44
ILB	Illinois	Barge	11,800	4.5	10.0	0.102	0.20%	ILLB-WKY-Barge-OhioR-11800-XH-4.5 - Spring 19	$45.83	$46.98	$47.36	$47.77	$50.43	$52.36	$54.00	$56.15	$57.67	$59.97	$60.41	$58.42	$65.15	$68.18	$71.01	$73.60	$74.02	$76.11	$79.22	$81.77	$85.15	$87.84	$90.04	$92.29	$94.59	$96.96	$99.38	$101.87	$104.41	$107.02	$109.70	$112.44
ILB	Low Chlorine	Barge	11,500	5.2	10.0	0.102	0.08%	ILLB-WKY-Barge-OhioR-11500-VH-5.2-LC-.8 - Spring 19	$45.83	$46.98	$47.36	$47.77	$50.43	$52.36	$54.00	$56.15	$57.67	$59.97	$60.41	$58.42	$65.15	$68.18	$71.01	$73.60	$74.02	$76.11	$79.22	$81.77	$85.15	$87.84	$90.04	$92.29	$94.59	$96.96	$99.38	$101.87	$104.41	$107.02	$109.70	$112.44
ILB	Low Chlorine	Rail	11,500	5.2	10.0	0.102	0.08%	ILLB-WKY-CSX-WKY-11500-VH-5.2-LC-.8 - Spring 19	$45.83	$46.98	$47.36	$47.77	$50.43	$52.36	$54.00	$56.15	$57.67	$59.97	$60.41	$58.42	$65.15	$68.18	$71.01	$73.60	$74.02	$76.11	$79.22	$81.77	$85.15	$87.84	$90.04	$92.29	$94.59	$96.96	$99.38	$101.87	$104.41	$107.02	$109.70	$112.44
PRB	High-Btu Gillette	Rail	8,800	0.8	5.0	0.060	0.01%	PRB-WY-BN/UP-Gillette-8800-CS-0.8 - Spring 19	$12.20	$12.19	$12.25	$13.64	$14.21	$14.58	$15.10	$15.72	$16.36	$17.04	$17.74	$18.49	$19.28	$20.09	$20.95	$21.85	$22.78	$23.27	$24.27	$25.31	$26.40	$27.53	$28.22	$28.93	$29.65	$30.39	$31.15	$31.93	$32.73	$33.55	$34.38	$35.24
RM	Rockies	Rail	11,700	0.8	8.0	0.040	0.02%	Rockies-CO-UP-North Fork-11700-CS-.8 - Spring 19	$33.38	$33.64	$35.71	$36.10	$38.56	$40.08	$41.66	$41.49	$43.09	$44.76	$46.52	$47.52	$49.43	$51.42	$50.25	$52.05	$54.14	$56.33	$54.14	$56.34	$58.64	$61.04	$62.56	$64.13	$65.73	$67.37	$69.06	$70.79	$72.56	$74.37	$76.23	$78.13
RM	Rockies	Barge	11,700	0.8	8.0	0.040	0.02%	Rockies-CO-UP-North Fork-11700-CS-.8 - Spring 19	$33.38	$33.64	$35.71	$36.10	$38.56	$40.08	$41.66	$41.49	$43.09	$44.76	$46.52	$47.52	$49.43	$51.42	$50.25	$52.05	$54.14	$56.33	$54.14	$56.34	$58.64	$61.04	$62.56	$64.13	$65.73	$67.37	$69.06	$70.79	$72.56	$74.37	$76.23	$78.13

Price Forecast Received from Andrew James via e-mail on 3/29/19 at 12:13 p.m. (Nominal $/ton) **

Reviewed transportation delivery locations with Shawn Shultz, Manager Coal Transportation

Florida- 2019 IRP Fall Refresh Update - Coal - Version History

File Preparer:	Michael Quinto
Date Prepared:	10/7/2019
Concurring Manager:	Brett Phipps
Date Approved:	
Updates to File:	Coal Fundamental Prices
	Rail Rates
	Barge Rates
	Assumptions

Florida- Fall 2019 IRP Refresh Update - Coal

No Carbon

********** Key Assumptions - PLEASE READ **********

1. Using the following CERA fundamental price forecast in Nominal dollars (see the "Coal Price Inputs" sheet):

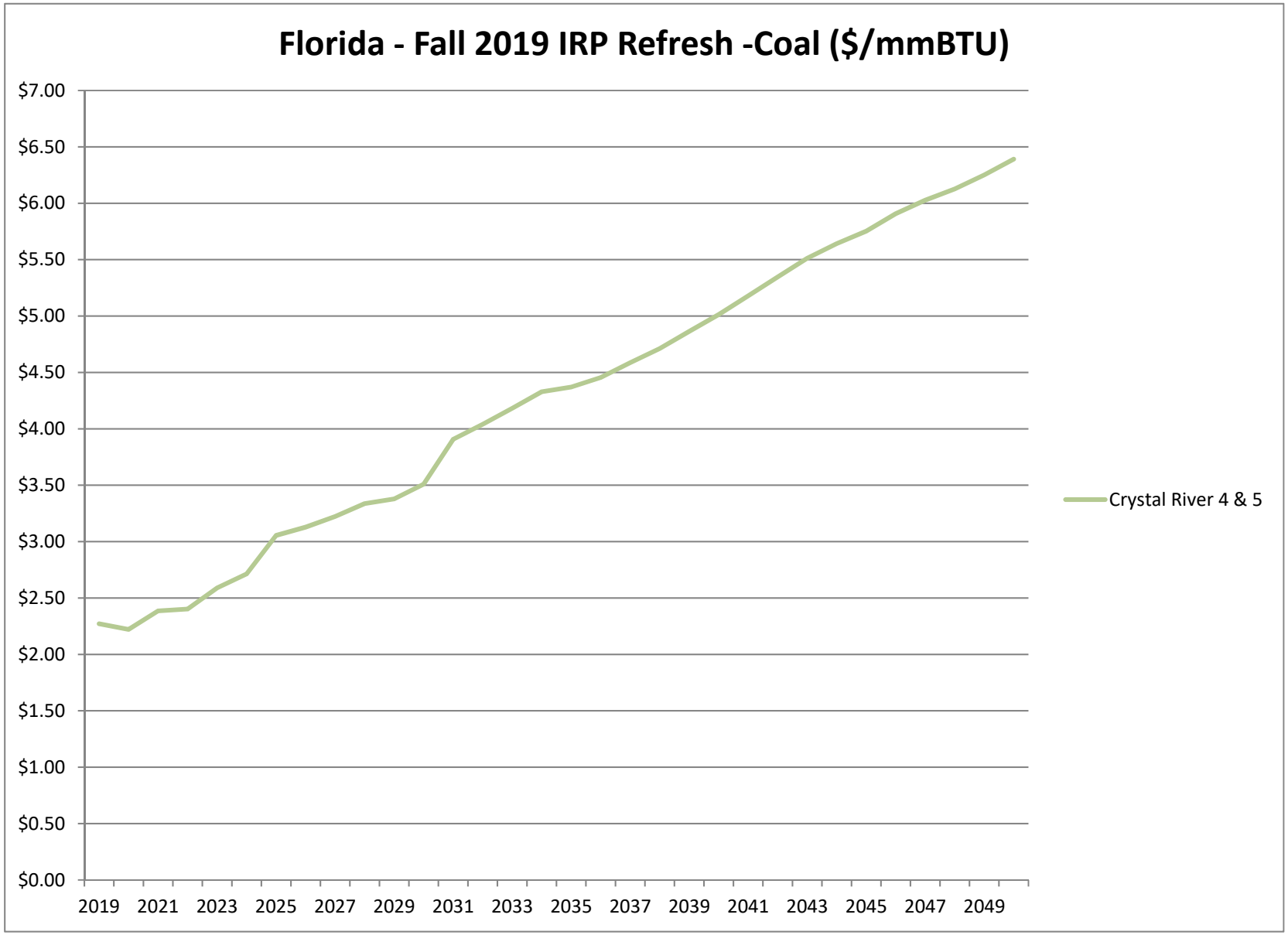
   Source File: Base, Low High Commodity Coal Curves_FL

   Source Tab: Fundamentals - Ratio Method

   From: Michael Quinto

2. Vendors for the fundemental price curves changed in 2017 from EVA to CERA. With this change there was a reduction in the number of coal prices forecasts provided for each region. However, where transportation rates provided alternative delivery methods for the same coal price forecast a delivered price was calculated.
3. This is an evaluation of the delivered cost per mmbtu only (coal price plus transportation cost). See the "Master" sheet for the overall summary of the lowest cost alternatives by station by year (including cost and quality). Additional cost adjustments for scrubber costs, O&M, etc. could be added upon request.
4. The delivered cost per mmbtu was calculated for all coal alternatives that can be transported to each station (see the sheets for each station). The coal alternative with the lowest delivered cost was then able to be identified and chosen for each year. This format allows the reviewer to see the delivered costs for all alternatives, regardless of whether or not they were not chosen (enables quick review of cost deltas for the next lowest cost alternatives). Where the station cannot burn the single lowest cost alternative at 100%, the lowest cost blend was determined.
5. This update incorporates unit capability constraints (Min BTU, Max SO2, Max Ash, Max Chlorine, and Max Mercury) and current capacity for on-site blending as we know them today.
6. Does not include any other adders for sulfur removal costs, O&M impacts or anything else. However, please note these additional cost impacts can be incorporated into the analysis upon request.
7. The CSX rail transportation rates assume the current proposed rates based off of Aug. 2019 CSX rate proposal (with Fuel Surcharge calculations based on COB 9/12/2019 WTI fuel pricing and AII-LF based on the actual index numbers through Q3 2019). The rates are escalated at 2.0% annually for 2020 through 2050.
8. For additional rail and barge assumptions see tab " Transportation Rate assumptions".
9. Crystal River Units 1&2 retirement occurred 12/31/18

10 This IRP is for planning purposes only. Using fundamental pricing for coal and market estimates for transportation rates. This evaluation does not include the modeling of the existing contractual commitments for coal, transportation and trans-loading.


Florida - Fall 2019 IRP Refresh -Coal ($/mmBTU)
$7.00
$6.50
$6.00
$5.50
$5.00
$4.50
$4.00
$3.50
$3.00
$2.50
$2.00
$1.50
$1.00
$0.50
$0.00
2019
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2045
2047
2049
Crystal River 4 & 5

Florida- Fall 2019 IRP Refresh Update - Coal

No Carbon **Low Commodity Price**

** Indicates unit capability constraints prevented selection of 100% of the lowest cost alternative

DELIVERED COST ($/MMBTU)

Station	Lowest Cost Alternatives	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Crystal River 4 & 5	A 50%/50% blend of IL-OH Rvr 11,500 5# & IL-OH Rvr 11,000 6# 2019-2030, and a 30%/60%/10% blend of IL-OH Rvr 11,500 5#, IL-OH Rvr 11,000 6#, & NAPP Rail 113,0004# coal 2031-2050**	$2.27	$2.22	$2.39	$2.40	$2.59	$2.71	$3.06	$3.13	$3.22	$3.34	$3.38	$3.51	$3.91	$4.04	$4.18	$4.33	$4.37	$4.45	$4.59	$4.71	$4.86	$5.01	$5.18	$5.35	$5.51	$5.64	$5.75	$5.91	$6.03	$6.13	$6.25	$6.39

BTU	Minimum BTU Limit	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Crystal River 4 & 5	10,700	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350

SO2 (#/mmbtu)	Max SO2 Limit	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Crystal River 4 & 5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5

ASH	Max Ash Limit	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Crystal River 4 & 5	13%	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8

MERCURY (Hg) - ppm dry	Max Mercury (Hg) Limit	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Crystal River 4 & 5	NA	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104

CHLORINE % AR	Max Chlorine Limit - ppm	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Crystal River 4 & 5	0.25%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%

										esc@2.5%																								
Market - COB 10/16/2019																																	
CRN	$2.03	$2.12	$2.18	$2.26	$2.43	$2.50	$2.56	$2.56	$2.63	$2.69																							
Blend																																	
Market	100%	100%	100%	100%	100%	89%	69%	49%	29%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Fundamentals	0%	0%	0%	0%	0%	11%	31%	51%	71%	91%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Final Forecast																																	
CRN	$2.03	$2.12	$2.18	$2.26	$2.43	$2.52	$2.71	$2.85	$3.05	$3.28	$3.38	$3.51	$3.91	$4.04	$4.18	$4.33	$4.37	$4.45	$4.59	$4.71	$4.86	$5.01	$5.18	$5.35	$5.51	$5.64	$5.75	$5.91	$6.03	$6.13	$6.25	$6.39

Florida- Fall 2019 IRP Refresh Update - Coal No Carbon

LOWEST COST ALTERNATIVE (Delivered $/mmbtu)

		Limits:	Min BTU	Max SO2	Max Ash	Max Cl	Cost ($/mmbtu):	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
								$2.27	$2.22	$2.39	$2.40	$2.59	$2.71	$3.06	$3.13	$3.22	$3.34	$3.38	$3.51	$3.91	$4.04	$4.18	$4.33	$4.37	$4.45	$4.59	$4.71	$4.86	$5.01	$5.18
Crystal River 4 & 5	A 50%/50% blend of IL-OH Rvr 11,500 5# & IL-OH Rvr 11,000 6# 2019-2030, and a 30%/60%/10% blend of IL-OH Rvr 11,500 5#, IL-OH Rvr 11,000 6#, & NAPP Rail 113,000# coal 2031-2050**		10,700	5.5	13.0%	0.25%	BTU/lb:	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350
							SO2 (#/mmbtu):	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47
							Ash (%):	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
							Hg (ppm - dry):	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104
							Chlorine %AR	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%
							Delta to Single Lowest Cost Alternative:	$0.03	$0.03	$0.03	$0.03	$0.03	$0.03	$0.03	$0.03	$0.03	$0.03	$0.03	$0.12	$0.25	$0.26	$0.26	$0.27	$0.28	$0.27	$0.27	$0.28	$0.28	$0.29	$0.29

SELECTED PERCENTAGES

Station	Basin	Coal Type	FOB Point	Btu/lb	#SO2/MMBtu	%Ash	Hg (ppm - dry)	Chlorine % AR	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
Crystal River 4&5	NAPP	Pittsburgh Seam	Rail	13,000	4	8	0.122	0.10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
Crystal River 4&5	NAPP	Pittsburgh Seam	Barge	13,000	4	8	0.122	0.10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	CAPP	Low-Sulfur	Rail	12,500	1.6	10	0.110	0.10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	CAPP	Low-Sulfur	Barge	12,500	1.67	10	0.110	0.10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Illinois	Rail	11,500	5	10	0.102	0.30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Illinois	Barge	11,500	5	10	0.102	0.15%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%
Crystal River 4&5	ILB	Illinois	Rail	11,500	5	10	0.102	0.12%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Illinois	Barge	11,000	6	10	0.102	0.10%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%
Crystal River 4&5	ILB	Illinois	Rail	11,000	6	10	0.102	0.15%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Illinois	Barge	11,800	4.5	10	0.102	0.20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Illinois	Barge	11,800	4.5	10	0.102	0.20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Low Chlorine	Barge	11,500	5.2	10	0.102	0.08%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Low Chlorine	Rail	11,500	5.2	10	0.102	0.08%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	PRB	High-Btu Gillette	Rail	8,800	0.8	5	0.060	0.01%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	RM	Rockies	Rail	11,700	0.8	8	0.040	0.02%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
									100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

DELIVERED COST ($/MMBTU)

Single Lowest Cost Alternative:

Station	Basin	Coal Type	FOB Point	Btu/lb	#SO2/MMBtu	%Ash	Hg (ppm - dry)	Chlorine % AR	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
									$2.25	$2.19	$2.35	$2.37	$2.56	$2.68	$3.03	$3.10	$3.19	$3.31	$3.35	$3.39	$3.65	$3.78	$3.92	$4.06	$4.09	$4.18	$4.32	$4.43	$4.58	$4.72	$4.89
Crystal River 4&5	NAPP	Pittsburgh Seam	Rail	13,000	4	8	0.122	0.10%	$2.84	$2.80	$3.09	$3.07	$3.23	$3.29	$3.39	$3.51	$3.61	$3.71	$3.81	$3.89	$3.99	$4.14	$4.23	$4.38	$4.49	$4.42	$4.49	$4.60	$4.72	$4.87	$5.01
Crystal River 4&5	NAPP	Pittsburgh Seam	Barge	13,000	4	8	0.122	0.10%	$2.63	$2.60	$2.87	$2.84	$3.09	$3.14	$3.46	$3.57	$3.68	$3.80	$3.91	$4.00	$4.36	$4.52	$4.61	$4.77	$4.89	$4.83	$4.91	$5.03	$5.16	$5.32	$5.46
Crystal River 4&5	CAPP	Low-Sulfur	Rail	12,500	1.6	10	0.110	0.10%	$3.26	$2.86	$3.35	$3.52	$3.62	$3.80	$3.94	$4.05	$4.19	$4.34	$4.44	$4.56	$4.73	$4.72	$4.91	$5.09	$5.25	$5.43	$5.62	$5.82	$5.79	$5.99	$6.17
Crystal River 4&5	CAPP	Low-Sulfur	Barge	12,500	1.67	10	0.110	0.10%	$3.00	$2.60	$3.08	$3.24	$3.43	$3.60	$3.97	$4.07	$4.23	$4.38	$4.49	$4.62	$5.05	$5.06	$5.26	$5.44	$5.61	$5.80	$5.99	$6.21	$6.19	$6.40	$6.58
Crystal River 4&5	ILB	Illinois	Rail	11,500	5	10	0.102	0.30%	$2.74	$2.68	$2.87	$2.90	$2.99	$3.13	$3.23	$3.31	$3.40	$3.51	$3.55	$3.51	$3.78	$3.91	$4.06	$4.20	$4.23	$4.33	$4.47	$4.59	$4.74	$4.89	$5.06
Crystal River 4&5	ILB	Illinois	Barge	11,500	5	10	0.102	0.15%	$2.30	$2.25	$2.42	$2.43	$2.62	$2.75	$3.08	$3.16	$3.25	$3.37	$3.41	$3.54	$3.93	$4.07	$4.22	$4.37	$4.40	$4.50	$4.65	$4.77	$4.93	$5.09	$5.26
Crystal River 4&5	ILB	Illinois	Rail	11,500	5	10	0.102	0.12%	$2.63	$2.64	$2.82	$2.85	$2.94	$3.08	$3.17	$3.26	$3.34	$3.45	$3.49	$3.45	$3.72	$3.85	$3.99	$4.14	$4.16	$4.26	$4.40	$4.52	$4.67	$4.82	$4.99
Crystal River 4&5	ILB	Illinois	Barge	11,000	6	10	0.102	0.10%	$2.25	$2.19	$2.35	$2.37	$2.56	$2.68	$3.03	$3.10	$3.19	$3.31	$3.35	$3.48	$3.88	$4.01	$4.16	$4.30	$4.34	$4.44	$4.57	$4.70	$4.85	$5.00	$5.17
Crystal River 4&5	ILB	Illinois	Rail	11,000	6	10	0.102	0.15%	$2.59	$2.60	$2.78	$2.81	$2.90	$3.03	$3.12	$3.20	$3.28	$3.39	$3.43	$3.39	$3.65	$3.78	$3.92	$4.06	$4.09	$4.18	$4.32	$4.43	$4.58	$4.72	$4.89
Crystal River 4&5	ILB	Illinois	Barge	11,800	4.5	10	0.102	0.20%	$2.29	$2.23	$2.40	$2.50	$2.71	$2.85	$3.18	$3.26	$3.36	$3.48	$3.52	$3.48	$4.05	$4.19	$4.34	$4.50	$4.53	$4.64	$4.79	$4.92	$5.08	$5.24	$5.42
Crystal River 4&5	ILB	Illinois	Barge	11,800	4.5	10	0.102	0.20%	$2.61	$2.56	$2.70	$2.79	$3.00	$3.15	$3.49	$3.57	$3.68	$3.81	$3.86	$3.83	$4.40	$4.55	$4.71	$4.88	$4.92	$5.03	$5.19	$5.33	$5.50	$5.67	$5.86
Crystal River 4&5	ILB	Low Chlorine	Barge	11,500	5.2	10	0.102	0.08%	$2.38	$2.35	$2.53	$2.64	$2.86	$3.00	$3.35	$3.43	$3.53	$3.66	$3.70	$3.66	$4.25	$4.40	$4.56	$4.73	$4.76	$4.87	$5.03	$5.17	$5.34	$5.51	$5.70
Crystal River 4&5	ILB	Low Chlorine	Rail	11,500	5.2	10	0.102	0.08%	$2.59	$2.57	$2.76	$2.88	$3.00	$3.15	$3.24	$3.33	$3.42	$3.53	$3.57	$3.52	$3.82	$3.95	$4.11	$4.27	$4.29	$4.39	$4.54	$4.66	$4.83	$4.98	$5.16
Crystal River 4&5	PRB	High-Btu Gillette	Rail	8,800	0.8	5	0.060	0.01%	$3.08	$3.09	$3.16	$3.26	$3.34	$3.44	$3.53	$3.62	$3.71	$3.81	$3.90	$4.01	$4.10	$4.20	$4.31	$4.43	$4.54	$4.63	$4.74	$4.87	$4.99	$5.13	$5.26
Crystal River 4&5	RM	Rockies	Rail	11,700	0.8	8	0.040	0.02%	$3.91	$3.96	$4.10	$4.16	$4.32	$4.48	$4.62	$4.66	$4.79	$4.92	$5.05	$5.17	$5.30	$5.44	$5.47	$5.62	$5.77	$5.92	$5.90	$6.06	$6.22	$6.41	$6.56

Florida- Fall 2019 IRP Refresh Update - Coal No Carbon

Duke Internal Low Commodity Fundamental Price Forecast*

Source File: Base, Low High Commodity Coal Curves_FL Source Tab: Fundamentals - Ratio Method

From: Michael Quinto

* Internal escalation rate of 2.5% applied starting in 2041 due to escalation rate error in HIS supplied market update (per email from Mike Quinto received 4/25/19)

Updated: 11/6/2019 Michael Quinto

Basin	Coal Type	FOB Point	Btu/lb	#SO2/MMBtu	%Ash	Avg Hg ppm (dry)	Chlorine % AR	INDEX	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
								Inflator 2018 = 1.0>>>	1.000	1.020	1.047	1.073	1.095	1.117	1.139	1.161	1.184	1.207	1.231	1.256	1.281	1.307	1.334	1.360	1.388	1.416	1.444	1.473	1.502	1.531	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500
NAPP	Pittsburgh Seam	Rail	13,000	4.0	8.0	0.122	0.10%	NAPP-Pitt-CSX/NS-MGA-13000-HS-4.0	$46.00	$44.99	$51.78	$50.65	$54.13	$54.83	$56.69	$58.95	$60.85	$62.85	$64.87	$66.28	$68.20	$71.39	$72.92	$75.98	$78.14	$75.57	$76.54	$78.71	$81.04	$83.96	$86.77	$89.81	$92.70	$94.77	$96.19	$98.93	$100.59	$101.79	$103.71	$105.87
NAPP	Pittsburgh Seam	Barge	13,000	4.0	8.0	0.122	0.10%	NAPP-Pitt-Barge-MonR-13000-HS-4.0	$46.00	$44.99	$51.78	$50.65	$54.13	$54.83	$56.69	$58.95	$60.85	$62.85	$64.87	$66.28	$68.20	$71.39	$72.92	$75.98	$78.14	$75.57	$76.54	$78.71	$81.04	$83.96	$86.77	$89.81	$92.70	$94.77	$96.19	$98.93	$100.59	$101.79	$103.71	$105.87
CAPP	Low-Sulfur	Rail	12,500	1.6	10.0	0.110	0.10%	CAPP-EKY-CSX-Big Sandy-12500-LS-1.6	$57.39	$47.16	$58.96	$62.59	$64.56	$68.36	$71.15	$73.29	$76.28	$79.29	$81.15	$83.59	$87.20	$86.45	$90.60	$94.36	$97.81	$101.69	$105.59	$109.91	$108.56	$112.85	$116.60	$120.04	$122.82	$125.27	$126.74	$129.82	$131.52	$132.73	$134.87	$137.32
CAPP	Low-Sulfur	Barge	12,500	1.6	10.0	0.110	0.10%	CAPP-EKY-Barge-BSR-12000-LS-1.6	$57.39	$47.16	$58.96	$62.59	$64.56	$68.36	$71.15	$73.29	$76.28	$79.29	$81.15	$83.59	$87.20	$86.45	$90.60	$94.36	$97.81	$101.69	$105.59	$109.91	$108.56	$112.85	$116.60	$120.04	$122.82	$125.27	$126.74	$129.82	$131.52	$132.73	$134.87	$137.32
ILB	Illinois	Rail	11,500	5.0	10.0	0.102	0.30%	ILLB-IL-Rail-South IL-11500-VH-5	$40.03	$38.74	$42.49	$42.60	$44.17	$46.71	$48.24	$49.62	$50.96	$53.01	$53.35	$51.91	$57.61	$59.96	$62.76	$65.52	$65.52	$67.18	$69.72	$71.82	$74.71	$77.46	$80.66	$83.84	$86.94	$89.20	$90.91	$93.81	$95.70	$97.12	$99.22	$101.55
ILB	Illinois	Barge	11,500	5.0	10.0	0.102	0.15%	ILLB-IL-Barge-OhioR-11500-VH-5	$40.03	$38.74	$42.49	$42.60	$44.17	$46.71	$48.24	$49.62	$50.96	$53.01	$53.35	$55.79	$57.61	$59.96	$62.76	$65.52	$65.52	$67.18	$69.72	$71.82	$74.71	$77.46	$80.66	$83.84	$86.94	$89.20	$90.91	$93.81	$95.70	$97.12	$99.22	$101.55
ILB	Illinois	Rail	11,500	5.0	10.0	0.102	0.12%	ILLB-IN-Rail-Sullivan-11500-VH-5	$40.03	$38.74	$42.49	$42.60	$44.17	$46.71	$48.24	$49.62	$50.96	$53.01	$53.35	$51.91	$57.61	$59.96	$62.76	$65.52	$65.52	$67.18	$69.72	$71.82	$74.71	$77.46	$80.66	$83.84	$86.94	$89.20	$90.91	$93.81	$95.70	$97.12	$99.22	$101.55
ILB	Illinois	Barge	11,000	6.0	10.0	0.102	0.10%	ILLB-WKY-Barge-OhioR-11000-XH-6	$36.58	$35.28	$38.69	$38.79	$40.22	$42.54	$43.93	$45.19	$46.40	$48.27	$48.58	$50.81	$52.46	$54.60	$57.15	$59.67	$59.66	$61.17	$63.48	$65.40	$68.03	$70.54	$73.45	$76.34	$79.17	$81.22	$82.79	$85.43	$87.14	$88.44	$90.35	$92.47
ILB	Illinois	Rail	11,000	6.0	10.0	0.102	0.15%	ILLB-IN-Rail-Sullivan-11000-XH-6	$36.58	$35.28	$38.69	$38.79	$40.22	$42.54	$43.93	$45.19	$46.40	$48.27	$48.58	$47.27	$52.46	$54.60	$57.15	$59.67	$59.66	$61.17	$63.48	$65.40	$68.03	$70.54	$73.45	$76.34	$79.17	$81.22	$82.79	$85.43	$87.14	$88.44	$90.35	$92.47
ILB	Illinois	Rail	11,000	6.0	10.0	0.102	0.15%	ILLB-IL-Rail-Central IL-11000-XH-6	$36.58	$35.28	$38.69	$38.79	$40.22	$42.54	$43.93	$45.19	$46.40	$48.27	$48.58	$47.27	$52.46	$54.60	$57.15	$59.67	$59.66	$61.17	$63.48	$65.40	$68.03	$70.54	$73.45	$76.34	$79.17	$81.22	$82.79	$85.43	$87.14	$88.44	$90.35	$92.47
ILB	Illinois	Barge	11,800	4.5	10.0	0.102	0.20%	ILLB-WKY-Barge-Green River-11800-XH-4.5	$41.15	$39.68	$43.43	$45.65	$47.87	$50.79	$52.45	$53.95	$55.40	$57.63	$58.00	$56.44	$62.63	$65.18	$68.23	$71.24	$71.23	$73.03	$75.79	$78.08	$81.22	$84.21	$87.70	$91.15	$94.52	$96.97	$98.84	$101.99	$104.04	$105.58	$107.87	$110.40
ILB	Illinois	Barge	11,800	4.5	10.0	0.102	0.20%	ILLB-WKY-Barge-OhioR-11800-XH-4.5	$41.15	$39.68	$43.43	$45.65	$47.87	$50.79	$52.45	$53.95	$55.40	$57.63	$58.00	$56.44	$62.63	$65.18	$68.23	$71.24	$71.23	$73.03	$75.79	$78.08	$81.22	$84.21	$87.70	$91.15	$94.52	$96.97	$98.84	$101.99	$104.04	$105.58	$107.87	$110.40
ILB	Low Chlorine	Barge	11,500	5.2	10.0	0.102	0.08%	ILLB-WKY-Barge-OhioR-11500-VH-5.2-LC-.8	$41.86	$41.13	$45.01	$47.32	$49.62	$52.64	$54.36	$55.92	$57.42	$59.74	$60.12	$58.50	$64.92	$67.56	$70.73	$73.84	$73.83	$75.70	$78.56	$80.93	$84.19	$87.29	$90.90	$94.48	$97.98	$100.51	$102.45	$105.71	$107.84	$109.44	$111.81	$114.43
ILB	Low Chlorine	Rail	11,500	5.2	10.0	0.102	0.08%	ILLB-WKY-CSX-WKY-11500-VH-5.2-LC-.8	$41.86	$41.13	$45.01	$47.32	$49.62	$52.64	$54.36	$55.92	$57.42	$59.74	$60.12	$58.50	$64.92	$67.56	$70.73	$73.84	$73.83	$75.70	$78.56	$80.93	$84.19	$87.29	$90.90	$94.48	$97.98	$100.51	$102.45	$105.71	$107.84	$109.44	$111.81	$114.43
PRB	High-Btu Gillette	Rail	8,800	0.8	5.0	0.060	0.01%	PRB-WY-BN/UP-Gillette-8800-CS-0.8	$12.21	$12.10	$12.29	$12.90	$13.27	$13.88	$14.39	$14.83	$15.44	$16.08	$16.72	$17.53	$18.17	$18.82	$19.71	$20.68	$21.42	$21.81	$22.66	$23.56	$24.52	$25.67	$26.77	$27.91	$29.06	$29.98	$30.76	$31.98	$32.90	$33.70	$34.78	$35.99
RM	Rockies	Rail	11,700	0.8	8.0	0.040	0.02%	Rockies-CO-UP-North Fork-11700-CS-.8	$32.54	$33.27	$35.05	$35.05	$37.20	$39.51	$41.12	$40.51	$42.07	$43.71	$45.38	$46.66	$48.30	$49.96	$49.07	$51.19	$52.95	$54.93	$52.64	$54.67	$56.84	$59.47	$61.14	$63.60	$65.90	$67.56	$68.67	$70.81	$72.16	$73.15	$74.65	$76.33
RM	Rockies	Barge	11,700	0.8	8.0	0.040	0.02%	Rockies-CO-UP-North Fork-11700D-CS-.8	$32.54	$33.27	$35.05	$35.05	$37.20	$39.51	$41.12	$40.51	$42.07	$43.71	$45.38	$46.66	$48.30	$49.96	$49.07	$51.19	$52.95	$54.93	$52.64	$54.67	$56.84	$59.47	$61.14	$63.60	$65.90	$67.56	$68.67	$70.81	$72.16	$73.15	$74.65	$76.33

Price Forecast Received from Andrew James via e-mail on 9/17/19 (Nominal $/ton) **

Reviewed transportation delivery locations with Shawn Shultz, Manager Coal Transportation 10/2018

With ILB Curve Updates from NEW ILB file received 10/4

CSX Rate Master Updated: 10/2/2019 tw **Post 2026 escalation:** 2.0% **Source:** \\cltpsmf02\fuelpur\PLANNING\IRP Refresh Files\2019 Fall IRP Refresh\Supporting Files\DEF Florida CSX Conventional Rail Rate Scenario_100219.xlsm

			CAPP					NAPP				ILB						Energy, CO	ConJunction, WY						
Key	Station	Year	Typo, KY	Resource, KY	Phillips, WV	Bull Creek 2, WV	Hutchinson, WV	Harrison Co, WV	Bailey Mine, PA	Marion Co, WV	Monongalia Co, WV	Evansville, IN	White Oak, IL	Oaktown,IN	Carlisle, IN	BearRun,IN	Cardinal 9, KY	CSX UP	CSX PRB	CSX CAPP Basin	CSX NAPP Basin	CSX ILB Basin	CSX CN Galatia	CSX Sullivan	CSX Western KY
Crystal River 4&5 2019	Crystal River 4&5	**2019**	$23.51	$20.13	$27.82	$24.57	$25.13	$28.51	$29.55	$26.09	$27.50	$21.29	$23.01	$21.31	$20.96	$22.83	$17.78	$58.88	$41.98	$24.23	$27.91	$21.20	$23.01	$20.40	$17.78
Crystal River 4&5 2020	Crystal River 4&5	2020	$23.51	$20.13	$27.82	$24.57	$25.13	$28.51	$29.55	$26.09	$27.50	$21.29	$23.01	$21.31	$20.96	$22.83	$17.94	$59.41	$42.36	$24.23	$27.91	$21.23	$23.01	$21.88	$17.94
Crystal River 4&5 2021	Crystal River 4&5	2021	$24.11	$20.65	$28.57	$25.21	$25.78	$29.24	$30.32	$26.75	$28.20	$21.84	$23.60	$21.84	$21.48	$23.39	$18.38	$60.85	$43.39	$24.86	$28.63	$21.75	$23.60	$22.43	$18.38
Crystal River 4&5 2022	Crystal River 4&5	2022	$24.62	$21.08	$29.10	$25.73	$26.31	$29.86	$30.93	$27.34	$28.81	$22.30	$24.10	$22.34	$21.99	$23.95	$18.82	$62.32	$44.44	$25.37	$29.23	$22.25	$24.10	$22.94	$18.82
Crystal River 4&5 2023	Crystal River 4&5	2023	$25.23	$21.60	$29.84	$26.37	$26.97	$30.60	$31.71	$28.01	$29.52	$22.86	$24.70	$22.89	$22.52	$24.53	$19.28	$63.83	$45.51	$26.00	$29.96	$22.80	$24.70	$23.50	$19.28
Crystal River 4&5 2024	Crystal River 4&5	2024	$25.88	$22.16	$30.64	$27.06	$27.67	$31.39	$32.54	$28.72	$30.27	$23.45	$25.33	$23.46	$23.07	$25.13	$19.74	$65.38	$46.61	$26.68	$30.73	$23.36	$25.33	$24.09	$19.74
Crystal River 4&5 2025	Crystal River 4&5	2025	$26.52	$22.71	$31.41	$27.73	$28.35	$32.16	$33.35	$29.43	$31.02	$24.03	$25.96	$24.03	$23.63	$25.74	$20.22	$66.96	$47.74	$27.35	$31.49	$23.93	$25.96	$24.68	$20.22
Crystal River 4&5 2026	Crystal River 4&5	2026	$27.19	$23.28	$32.20	$28.42	$29.06	$32.97	$34.19	$30.16	$31.80	$24.63	$26.61	$24.63	$24.23	$26.38	$20.73	$68.64	$48.94	$28.03	$32.28	$24.53	$26.61	$25.29	$20.73
Crystal River 4&5 2027	Crystal River 4&5	2027	$27.73	$23.75	$32.84	$28.99	$29.64	$33.63	$34.87	$30.76	$32.43	$25.12	$27.14	$25.12	$24.71	$26.91	$21.14	$70.01	$49.92	$28.59	$32.92	$25.02	$27.14	$25.80	$21.14
Crystal River 4&5 2028	Crystal River 4&5	2028	$28.28	$24.22	$33.50	$29.57	$30.24	$34.30	$35.57	$31.38	$33.08	$25.62	$27.68	$25.63	$25.20	$27.45	$21.56	$71.41	$50.91	$29.16	$33.58	$25.52	$27.68	$26.32	$21.56
Crystal River 4&5 2029	Crystal River 4&5	2029	$28.85	$24.71	$34.17	$30.16	$30.84	$34.99	$36.28	$32.01	$33.74	$26.13	$28.24	$26.14	$25.71	$27.99	$21.99	$72.84	$51.93	$29.75	$34.25	$26.03	$28.24	$26.84	$21.99
Crystal River 4&5 2030	Crystal River 4&5	2030	$29.43	$25.20	$34.85	$30.76	$31.46	$35.69	$37.00	$32.65	$34.42	$26.66	$28.80	$26.66	$26.22	$28.55	$22.43	$74.29	$52.97	$30.34	$34.94	$26.56	$28.80	$27.38	$22.43
Crystal River 4&5 2031	Crystal River 4&5	2031	$30.02	$25.70	$35.55	$31.38	$32.09	$36.40	$37.74	$33.30	$35.10	$27.19	$29.38	$27.20	$26.75	$29.13	$22.88	$75.78	$54.03	$30.95	$35.64	$27.09	$29.38	$27.93	$22.88
Crystal River 4&5 2032	Crystal River 4&5	2032	$30.62	$26.22	$36.26	$32.01	$32.73	$37.13	$38.50	$33.97	$35.81	$27.73	$29.96	$27.74	$27.28	$29.71	$23.34	$77.30	$55.11	$31.57	$36.35	$27.63	$29.96	$28.49	$23.34
Crystal River 4&5 2033	Crystal River 4&5	2033	$31.23	$26.74	$36.99	$32.65	$33.38	$37.87	$39.27	$34.65	$36.52	$28.29	$30.56	$28.29	$27.83	$30.30	$23.81	$78.84	$56.21	$32.20	$37.08	$28.18	$30.56	$29.06	$23.81
Crystal River 4&5 2034	Crystal River 4&5	2034	$31.85	$27.28	$37.73	$33.30	$34.05	$38.63	$40.05	$35.34	$37.25	$28.85	$31.18	$28.86	$28.38	$30.91	$24.28	$80.42	$57.34	$32.84	$37.82	$28.74	$31.18	$29.64	$24.28
Crystal River 4&5 2035	Crystal River 4&5	2035	$32.49	$27.82	$38.48	$33.97	$34.73	$39.40	$40.86	$36.05	$38.00	$29.43	$31.80	$29.44	$28.95	$31.53	$24.77	$82.03	$58.48	$33.50	$38.57	$29.32	$31.80	$30.23	$24.77
Crystal River 4&5 2036	Crystal River 4&5	2036	$33.14	$28.38	$39.25	$34.65	$35.43	$40.19	$41.67	$36.77	$38.76	$30.02	$32.43	$30.03	$29.53	$32.16	$25.27	$83.67	$59.65	$34.17	$39.35	$29.91	$32.43	$30.83	$25.27
Crystal River 4&5 2037	Crystal River 4&5	2037	$33.80	$28.95	$40.04	$35.34	$36.14	$40.99	$42.51	$37.50	$39.53	$30.62	$33.08	$30.63	$30.12	$32.80	$25.77	$85.34	$60.85	$34.85	$40.13	$30.50	$33.08	$31.45	$25.77
Crystal River 4&5 2038	Crystal River 4&5	2038	$34.48	$29.53	$40.84	$36.05	$36.86	$41.81	$43.36	$38.25	$40.32	$31.23	$33.75	$31.24	$30.72	$33.46	$26.29	$87.05	$62.06	$35.55	$40.94	$31.11	$33.75	$32.08	$26.29
Crystal River 4&5 2039	Crystal River 4&5	2039	$35.17	$30.12	$41.65	$36.77	$37.60	$42.65	$44.22	$39.02	$41.13	$31.86	$34.42	$31.86	$31.34	$34.13	$26.81	$88.79	$63.30	$36.26	$41.75	$31.74	$34.42	$32.72	$26.81
Crystal River 4&5 2040	Crystal River 4&5	2040	$35.87	$30.72	$42.49	$37.50	$38.35	$43.50	$45.11	$39.80	$41.95	$32.49	$35.11	$32.50	$31.97	$34.81	$27.35	$90.56	$64.57	$36.98	$42.59	$32.37	$35.11	$33.38	$27.35
Crystal River 4&5 2041	Crystal River 4&5	2041	$36.59	$31.33	$43.34	$38.25	$39.11	$44.37	$46.01	$40.59	$42.79	$33.14	$35.81	$33.15	$32.60	$35.50	$27.89	$92.38	$65.86	$37.72	$43.44	$33.02	$35.81	$34.04	$27.89
Crystal River 4&5 2042	Crystal River 4&5	2042	$37.32	$31.96	$44.20	$39.02	$39.90	$45.26	$46.93	$41.40	$43.65	$33.81	$36.53	$33.81	$33.26	$36.21	$28.45	$94.22	$67.18	$38.48	$44.31	$33.68	$36.53	$34.72	$28.45
Crystal River 4&5 2043	Crystal River 4&5	2043	$38.07	$32.60	$45.09	$39.80	$40.69	$46.16	$47.87	$42.23	$44.52	$34.48	$37.26	$34.49	$33.92	$36.94	$29.02	$96.11	$68.52	$39.25	$45.20	$34.35	$37.26	$35.42	$29.02
Crystal River 4&5 2044	Crystal River 4&5	2044	$38.83	$33.25	$45.99	$40.59	$41.51	$47.09	$48.83	$43.08	$45.41	$35.17	$38.00	$35.18	$34.60	$37.68	$29.60	$98.03	$69.89	$40.03	$46.10	$35.04	$38.00	$36.13	$29.60
Crystal River 4&5 2045	Crystal River 4&5	2045	$39.60	$33.92	$46.91	$41.40	$42.34	$48.03	$49.80	$43.94	$46.32	$35.88	$38.76	$35.88	$35.29	$38.43	$30.19	$99.99	$71.29	$40.83	$47.02	$35.74	$38.76	$36.85	$30.19
Crystal River 4&5 2046	Crystal River 4&5	2046	$40.40	$34.59	$47.85	$42.23	$43.19	$48.99	$50.80	$44.82	$47.25	$36.59	$39.54	$36.60	$36.00	$39.20	$30.80	$101.99	$72.72	$41.65	$47.96	$36.45	$39.54	$37.59	$30.80
Crystal River 4&5 2047	Crystal River 4&5	2047	$41.20	$35.29	$48.80	$43.08	$44.05	$49.97	$51.81	$45.71	$48.19	$37.32	$40.33	$37.33	$36.72	$39.98	$31.41	$104.03	$74.17	$42.48	$48.92	$37.18	$40.33	$38.34	$31.41
Crystal River 4&5 2048	Crystal River 4&5	2048	$42.03	$35.99	$49.78	$43.94	$44.93	$50.97	$52.85	$46.63	$49.15	$38.07	$41.14	$38.08	$37.45	$40.78	$32.04	$106.11	$75.65	$43.33	$49.90	$37.93	$41.14	$39.10	$32.04
Crystal River 4&5 2049	Crystal River 4&5	2049	$42.87	$36.71	$50.78	$44.82	$45.83	$51.99	$53.91	$47.56	$50.14	$38.83	$41.96	$38.84	$38.20	$41.60	$32.68	$108.23	$77.17	$44.20	$50.90	$38.69	$41.96	$39.89	$32.68
Crystal River 4&5 2050	Crystal River 4&5	2050	$43.73	$37.45	$51.79	$45.71	$46.75	$53.03	$54.99	$48.51	$51.14	$39.61	$42.80	$39.62	$38.97	$42.43	$33.34	$110.40	$78.71	$45.08	$51.92	$39.46	$42.80	$40.68	$33.34

Misc Rates

5 Year Escalation Rate 2.0%

Base Rail Rates ($/ton)

	Cora	Cook	Calvert City	Houston	Crystal River
Twenty Mile	$29.00	$30.75	$32.00	$34.25	$58.25
West Elk	$30.50	$32.25	$33.50	$35.75	$59.25
Bowie	$30.50	$32.25	$33.50	$35.75	$59.25

Total Rate ($/ton)

	Cora	Cook	Calvert City	Houston	Crystal River
Twenty Mile	$30.92	$32.86	$34.16	$36.65	$62.87
West Elk	$32.58	$34.49	$35.82	$38.31	$64.09
Bowie	$32.58	$34.49	$35.82	$38.31	$64.09

Mileage

	Cora	Cook	Calvert City	Houston	Crystal River
Twenty Mile	1203	1321	1349	1500	2100
West Elk	1300	1400	1450	1600	2200
Bowie	1300	1400	1450	1600	2200

UP 0.16 $/ton-mile HDF Price

CSX 0.22 $/ton-mile 2.858 $/gallon

Barge Rate Master Updated: 10/2/2019 tw **Post 2024 escalation:** 2.0% **Source:** \\cltpsmf02\FuelPUR\Planning\IRP Refresh Files\Fall 2019 IRP Refresh\Supporting Files\Fall 2019 FLORIDA BARGE FOF_Working File_Fixed Costs Removed through 2024

Key	Station2	Year	Barge CAPP Basin	Barge NAPP Pitt 8	Barge NAPP OH MP100	Barge ILB Green River	Barge ILB OH River	Barge UP RM to Convent	Mt Vernon	Calvert City
Crystal River 4&5 2019	Crystal River 4&5	2019	$17.67	$22.29	$18.67	$20.46	$12.83	$51.92	$12.20	$13.55
Crystal River 4&5 2020	Crystal River 4&5	2020	$17.90	$22.58	$18.90	$20.72	$12.99	$53.46	$12.36	$13.73
Crystal River 4&5 2021	Crystal River 4&5	2021	$18.05	$22.77	$19.06	$20.22	$13.10	$54.56	$12.46	$13.84
Crystal River 4&5 2022	Crystal River 4&5	2022	$18.42	$23.24	$19.46	$20.15	$13.37	$55.48	$12.72	$14.13
Crystal River 4&5 2023	Crystal River 4&5	2023	$21.26	$26.18	$22.32	$23.03	$16.10	$56.57	$17.87	$19.31
Crystal River 4&5 2024	Crystal River 4&5	2024	$21.71	$26.74	$22.79	$23.52	$16.44	$57.74	$18.25	$19.72
Crystal River 4&5 2025	Crystal River 4&5	2025	$28.06	$33.19	$29.16	$29.90	$22.67	$64.83	$30.40	$31.90
Crystal River 4&5 2026	Crystal River 4&5	2026	$28.51	$33.77	$29.64	$30.40	$23.00	$66.03	$30.69	$32.23
Crystal River 4&5 2027	Crystal River 4&5	2027	$29.51	$34.91	$30.67	$31.45	$23.85	$67.64	$31.98	$33.56
Crystal River 4&5 2028	Crystal River 4&5	2028	$30.27	$35.82	$31.46	$32.26	$24.45	$69.00	$32.74	$34.36
Crystal River 4&5 2029	Crystal River 4&5	2029	$31.05	$36.76	$32.28	$33.10	$25.07	$70.38	$33.52	$35.18
Crystal River 4&5 2030	Crystal River 4&5	2030	$31.80	$37.66	$33.06	$33.90	$25.67	$71.78	$34.28	$35.99
Crystal River 4&5 2031	Crystal River 4&5	2031	$39.14	$45.12	$40.43	$41.29	$32.88	$79.90	$48.34	$50.09
Crystal River 4&5 2032	Crystal River 4&5	2032	$39.99	$46.10	$41.30	$42.18	$33.60	$81.55	$49.42	$51.20
Crystal River 4&5 2033	Crystal River 4&5	2033	$40.79	$47.03	$42.13	$43.03	$34.27	$83.16	$50.38	$52.20
Crystal River 4&5 2034	Crystal River 4&5	2034	$41.61	$47.97	$42.98	$43.90	$34.95	$84.79	$51.35	$53.21
Crystal River 4&5 2035	Crystal River 4&5	2035	$42.52	$49.02	$43.92	$44.85	$35.72	$86.55	$52.50	$54.40
Crystal River 4&5 2036	Crystal River 4&5	2036	$43.36	$50.00	$44.79	$45.75	$36.42	$88.25	$53.51	$55.45
Crystal River 4&5 2037	Crystal River 4&5	2037	$44.24	$51.01	$45.70	$46.67	$37.15	$89.98	$54.55	$56.53
Crystal River 4&5 2038	Crystal River 4&5	2038	$45.22	$52.14	$46.70	$47.70	$37.97	$91.84	$55.78	$57.80
Crystal River 4&5 2039	Crystal River 4&5	2039	$46.13	$53.20	$47.65	$48.67	$38.73	$93.64	$56.86	$58.93
Crystal River 4&5 2040	Crystal River 4&5	2040	$47.06	$54.28	$48.61	$49.65	$39.50	$95.49	$57.97	$60.08
Crystal River 4&5 2041	Crystal River 4&5	2041	$47.93	$55.25	$49.50	$50.56	$40.25	$97.46	$59.16	$61.30
Crystal River 4&5 2042	Crystal River 4&5	2042	$48.91	$56.40	$50.52	$51.60	$41.07	$99.37	$60.32	$62.50
Crystal River 4&5 2043	Crystal River 4&5	2043	$49.92	$57.57	$51.56	$52.66	$41.90	$101.33	$61.50	$63.74
Crystal River 4&5 2044	Crystal River 4&5	2044	$50.85	$58.63	$52.53	$53.65	$42.71	$103.42	$62.77	$65.04
Crystal River 4&5 2045	Crystal River 4&5	2045	$51.93	$59.88	$53.64	$54.79	$43.61	$105.49	$64.07	$66.39
Crystal River 4&5 2046	Crystal River 4&5	2046	$52.84	$60.91	$54.58	$55.74	$44.39	$107.60	$65.26	$67.62
Crystal River 4&5 2047	Crystal River 4&5	2047	$53.95	$62.20	$55.73	$56.92	$45.32	$109.75	$66.61	$69.01
Crystal River 4&5 2048	Crystal River 4&5	2048	$55.09	$63.52	$56.90	$58.12	$46.27	$111.95	$67.98	$70.44
Crystal River 4&5 2049	Crystal River 4&5	2049	$56.04	$64.60	$57.88	$59.12	$47.08	$114.19	$69.24	$71.73
Crystal River 4&5 2050	Crystal River 4&5	2050	$57.22	$65.97	$59.10	$60.36	$48.07	$116.47	$70.66	$73.21

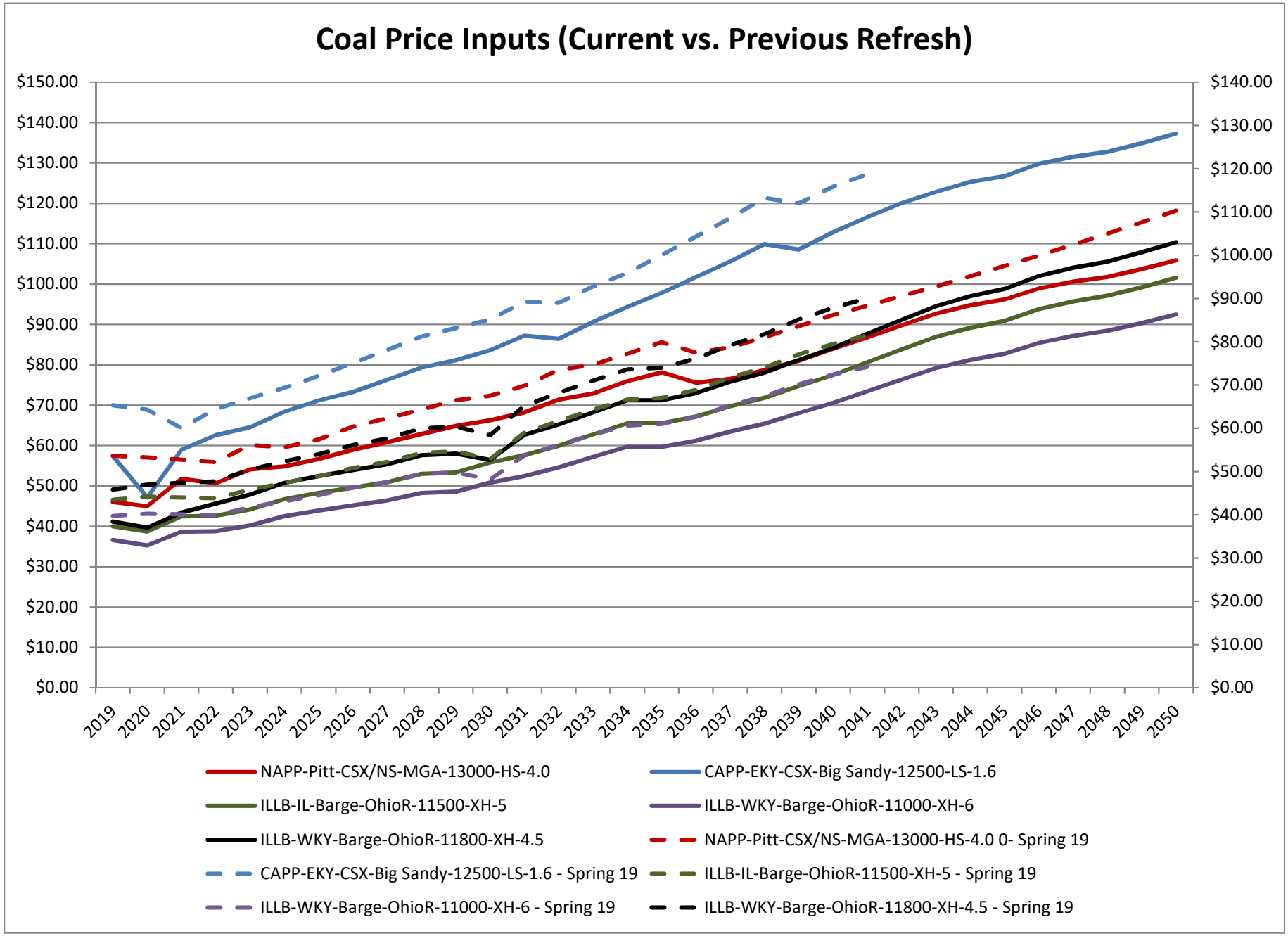
Rail Assumptions

1) CSX CAPP, NAPP, ILB and Western PRB/RM rates updated based on CSX indicitive bid received 8/2019
2) CSX West Kentucky equals CSX indicitive bid received 8/2019 for Cardinal 9, KY
3) CSX Galatia rate equals CSX indicitive bid received 8/2019 for White Oak
4) CSX Sullivan rate equals average CSX indicitive bid for ILB excluding Cardinal 9, KY received 8/2019
9) CSX UP (RM) equals CSX indicitive bid received 8/2019 including BSNF piece
10) CSX PRB equals CSX indicitive bid received 8/2019 including BSNF piece
11) Delivery of ILB 11,000 6# would typically be out of Central IL. ILB 11,000 6# transportation selection of CSX Sullivan based off of Peabody Bear Run 2017 Fall Term RFP offer. However, Station can not currently do a rail direct move as there is no on-site blending capabilities which would be needed to meet SO2 constraints

Barge Assumptions

12) Barge UP RM to Convent rate is the current UP agreement through 9/18 escalated at 5% (with Fuel Surcharge calculations based on COB 9/12/19 WTI fuel pricing), plus the current rates for the Convent Terminal fees which expired 12/31/18 escalated at 2% and Gulf Barge rates through 12/18 escalating 2% annually starting Jan 2025 through 2050.
13) Delivery of 11,800 4.5# coals would typically be off the Green River. Currently have a contract delivering off the Ohio.
14) ILB 11,000 6# transportation selection of OH River based off of Peabody bids going through Cora Terminal
15) Fixed cross-gulf costs excluded from transportation rates through FOF study period, Fees for one cross-gulf barge added 1/1/25. Second cross-gulf barge added 1/1/31. Variable cost to mid-stream coal from the river to the gulf is included starting 1/1/23 and is based off the current AT rate escalated at 2%. Mirrors current FOF assumptions.

Current FOF Gulf Barge assumptions: Margo Dale terminated 12/31/20, Winna Wilson assumed in-service through 12/31/23


Coal Price Inputs (Current vs. Previous Refresh)
$150.00
$140.00
$130.00
$120.00
$110.00
$100.00
$90.00
$80.00
$70.00
$60.00
$50.00
$40.00
$30.00
$20.00
$10.00
$0.00
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NAPP-Pitt-CSX/NS-MGA-13000-HS-4.0
CAPP-EKY-CSX-Big Sandy-12500-LS-1.6
ILLB-IL-Barge-OhioR-11500-XH-5
ILLB-WKY-Barge-OhioR-11000-XH-6
ILLB-WKY-Barge-OhioR-11800-XH-4.5
NAPP-Pitt-CSX/NS-MGA-13000-HS-4.0 0- Spring 19
CAPP-EKY-CSX-Big Sandy-12500-LS-1.6 - Spring 19
ILLB-IL-Barge-OhioR-11500-XH-5 - Spring 19
ILLB-WKY-Barge-OhioR-11000-XH-6 - Spring 19
ILLB-WKY-Barge-OhioR-11800-XH-4.5 - Spring 19

Florida- Spring 2019 IRP Refresh Update - Coal No Carbon

CERA Fundamental Price Forecast*

Source File: Fuel-Forecast_Spring_2019_IHS_03292019 Source Tab: Coal Spring 2019

From: Andrew James via e-mail on 3/29/2019 at 12:13 p.m

* Internal escalation rate of 2.5% applied starting in 2041 due to escalation rate error in HIS supplied market update (per email from Mike Quinto received 4/25/19)

Updated: 4/29/2019 Tiffany Weir

Basin	Coal Type	FOB Point	Btu/lb	#SO2/MMBtu	%Ash	Avg Hg ppm (dry)	Chlorine % AR	INDEX	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
								Inflator 2018 = 1.0>>>	1.000	1.020	1.047	1.073	1.095	1.117	1.139	1.161	1.184	1.207	1.231	1.256	1.281	1.307	1.334	1.360	1.388	1.416	1.444	1.473	1.502	1.531	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500
NAPP	Pittsburgh Seam	Rail	13,000	4.0	8.0	0.122	0.10%	NAPP-Pitt-CSX/NS-MGA-13000-HS-4.0- Spring 19	$53.67	$53.25	$52.75	$52.16	$56.11	$55.63	$57.44	$60.38	$62.33	$64.36	$66.48	$67.50	$69.81	$73.47	$74.67	$77.25	$79.90	$77.50	$78.72	$81.11	$83.60	$86.18	$88.34	$90.54	$92.81	$95.13	$97.51	$99.94	$102.44	$105.00	$107.63	$110.32
NAPP	Pittsburgh Seam	Barge	13,000	4.0	8.0	0.122	0.10%	NAPP-Pitt-Barge-MonR-13000-HS-4.0 - Spring 19	$53.67	$53.25	$52.75	$52.16	$56.11	$55.63	$57.44	$60.38	$62.33	$64.36	$66.48	$67.50	$69.81	$73.47	$74.67	$77.25	$79.90	$77.50	$78.72	$81.11	$83.60	$86.18	$88.34	$90.54	$92.81	$95.13	$97.51	$99.94	$102.44	$105.00	$107.63	$110.32
CAPP	Low-Sulfur	Rail	12,500	1.6	10.0	0.110	0.10%	CAPP-EKY-CSX-Big Sandy-12500-LS-1.6 - Spring 19	$65.33	$64.27	$60.06	$64.45	$66.93	$69.35	$72.08	$75.06	$78.13	$81.19	$83.17	$85.13	$89.25	$88.98	$92.77	$95.94	$100.02	$104.28	$108.60	$113.26	$111.99	$115.83	$118.73	$121.69	$124.74	$127.85	$131.05	$134.33	$137.69	$141.13	$144.66	$148.27
CAPP	Low-Sulfur	Barge	12,500	1.6	10.0	0.110	0.10%	CAPP-EKY-Barge-BSR-12000-LS-1.6 - Spring 19	$65.33	$64.27	$60.06	$64.45	$66.93	$69.35	$72.08	$75.06	$78.13	$81.19	$83.17	$85.13	$89.25	$88.98	$92.77	$95.94	$100.02	$104.28	$108.60	$113.26	$111.99	$115.83	$118.73	$121.69	$124.74	$127.85	$131.05	$134.33	$137.69	$141.13	$144.66	$148.27
ILB	Illinois	Rail	11,500	5.0	10.0	0.102	0.30%	ILLB-IL-Rail-South IL-11500-VH-5 - Spring 19	$43.48	$44.19	$44.01	$43.87	$45.79	$47.39	$48.88	$50.82	$52.20	$54.28	$54.68	$52.87	$58.97	$61.71	$64.27	$66.62	$67.00	$68.89	$71.70	$74.01	$77.07	$79.50	$81.49	$83.53	$85.62	$87.76	$89.95	$92.20	$94.51	$96.87	$99.29	$101.77
ILB	Illinois	Barge	11,500	5.0	10.0	0.102	0.15%	ILLB-IL-Barge-OhioR-11500-VH-5 - Spring 19	$43.48	$44.19	$44.01	$43.87	$45.79	$47.39	$48.88	$50.82	$52.20	$54.28	$54.68	$52.87	$58.97	$61.71	$64.27	$66.62	$67.00	$68.89	$71.70	$74.01	$77.07	$79.50	$81.49	$83.53	$85.62	$87.76	$89.95	$92.20	$94.51	$96.87	$99.29	$101.77
ILB	Illinois	Rail	11,500	5.0	10.0	0.102	0.12%	ILLB-IN-Rail-Sullivan-11500-VH-5 - Spring 19	$43.48	$44.19	$44.01	$43.87	$45.79	$47.39	$48.88	$50.82	$52.20	$54.28	$54.68	$52.87	$58.97	$61.71	$64.27	$66.62	$67.00	$68.89	$71.70	$74.01	$77.07	$79.50	$81.49	$83.53	$85.62	$87.76	$89.95	$92.20	$94.51	$96.87	$99.29	$101.77
ILB	Illinois	Barge	11,000	6.0	10.0	0.102	0.10%	ILLB-WKY-Barge-OhioR-11000-XH-6 - Spring 19	$39.73	$40.24	$40.08	$39.95	$41.69	$43.16	$44.51	$46.28	$47.53	$49.43	$49.79	$48.15	$53.70	$56.19	$58.53	$60.66	$61.01	$62.73	$65.29	$67.39	$70.18	$72.40	$74.21	$76.06	$77.97	$79.91	$81.91	$83.96	$86.06	$88.21	$90.42	$92.68
ILB	Illinois	Rail	11,000	6.0	10.0	0.102	0.15%	ILLB-IN-Rail-Sullivan-11000-XH-6 - Spring 19	$39.73	$40.24	$40.08	$39.95	$41.69	$43.16	$44.51	$46.28	$47.53	$49.43	$49.79	$48.15	$53.70	$56.19	$58.53	$60.66	$61.01	$62.73	$65.29	$67.39	$70.18	$72.40	$74.21	$76.06	$77.97	$79.91	$81.91	$83.96	$86.06	$88.21	$90.42	$92.68
ILB	Illinois	Rail	11,000	6.0	10.0	0.102	0.15%	ILLB-IL-Rail-Central IL-11000-XH-6 - Spring 19	$39.73	$40.24	$40.08	$39.95	$41.69	$43.16	$44.51	$46.28	$47.53	$49.43	$49.79	$48.15	$53.70	$56.19	$58.53	$60.66	$61.01	$62.73	$65.29	$67.39	$70.18	$72.40	$74.21	$76.06	$77.97	$79.91	$81.91	$83.96	$86.06	$88.21	$90.42	$92.68
ILB	Illinois	Barge	11,800	4.5	10.0	0.102	0.20%	ILLB-WKY-Barge-Green River-11800-XH-4.5 - Spring 19	$45.83	$46.98	$47.36	$47.77	$50.43	$52.36	$54.00	$56.15	$57.67	$59.97	$60.41	$58.42	$65.15	$68.18	$71.01	$73.60	$74.02	$76.11	$79.22	$81.77	$85.15	$87.84	$90.04	$92.29	$94.59	$96.96	$99.38	$101.87	$104.41	$107.02	$109.70	$112.44
ILB	Illinois	Barge	11,800	4.5	10.0	0.102	0.20%	ILLB-WKY-Barge-OhioR-11800-XH-4.5 - Spring 19	$45.83	$46.98	$47.36	$47.77	$50.43	$52.36	$54.00	$56.15	$57.67	$59.97	$60.41	$58.42	$65.15	$68.18	$71.01	$73.60	$74.02	$76.11	$79.22	$81.77	$85.15	$87.84	$90.04	$92.29	$94.59	$96.96	$99.38	$101.87	$104.41	$107.02	$109.70	$112.44
ILB	Low Chlorine	Barge	11,500	5.2	10.0	0.102	0.08%	ILLB-WKY-Barge-OhioR-11500-VH-5.2-LC-.8 - Spring 19	$45.83	$46.98	$47.36	$47.77	$50.43	$52.36	$54.00	$56.15	$57.67	$59.97	$60.41	$58.42	$65.15	$68.18	$71.01	$73.60	$74.02	$76.11	$79.22	$81.77	$85.15	$87.84	$90.04	$92.29	$94.59	$96.96	$99.38	$101.87	$104.41	$107.02	$109.70	$112.44
ILB	Low Chlorine	Rail	11,500	5.2	10.0	0.102	0.08%	ILLB-WKY-CSX-WKY-11500-VH-5.2-LC-.8 - Spring 19	$45.83	$46.98	$47.36	$47.77	$50.43	$52.36	$54.00	$56.15	$57.67	$59.97	$60.41	$58.42	$65.15	$68.18	$71.01	$73.60	$74.02	$76.11	$79.22	$81.77	$85.15	$87.84	$90.04	$92.29	$94.59	$96.96	$99.38	$101.87	$104.41	$107.02	$109.70	$112.44
PRB	High-Btu Gillette	Rail	8,800	0.8	5.0	0.060	0.01%	PRB-WY-BN/UP-Gillette-8800-CS-0.8 - Spring 19	$12.20	$12.19	$12.25	$13.64	$14.21	$14.58	$15.10	$15.72	$16.36	$17.04	$17.74	$18.49	$19.28	$20.09	$20.95	$21.85	$22.78	$23.27	$24.27	$25.31	$26.40	$27.53	$28.22	$28.93	$29.65	$30.39	$31.15	$31.93	$32.73	$33.55	$34.38	$35.24
RM	Rockies	Rail	11,700	0.8	8.0	0.040	0.02%	Rockies-CO-UP-North Fork-11700-CS-.8 - Spring 19	$33.38	$33.64	$35.71	$36.10	$38.56	$40.08	$41.66	$41.49	$43.09	$44.76	$46.52	$47.52	$49.43	$51.42	$50.25	$52.05	$54.14	$56.33	$54.14	$56.34	$58.64	$61.04	$62.56	$64.13	$65.73	$67.37	$69.06	$70.79	$72.56	$74.37	$76.23	$78.13
RM	Rockies	Barge	11,700	0.8	8.0	0.040	0.02%	Rockies-CO-UP-North Fork-11700-CS-.8 - Spring 19	$33.38	$33.64	$35.71	$36.10	$38.56	$40.08	$41.66	$41.49	$43.09	$44.76	$46.52	$47.52	$49.43	$51.42	$50.25	$52.05	$54.14	$56.33	$54.14	$56.34	$58.64	$61.04	$62.56	$64.13	$65.73	$67.37	$69.06	$70.79	$72.56	$74.37	$76.23	$78.13

Price Forecast Received from Andrew James via e-mail on 3/29/19 at 12:13 p.m. (Nominal $/ton) **

Reviewed transportation delivery locations with Shawn Shultz, Manager Coal Transportation

Florida- 2019 IRP Fall Refresh Update - Coal - Version History

File Preparer:	Tiffany Weir
Date Prepared:	10/7/2019
Concurring Manager:	Brett Phipps
Date Approved:	
Updates to File:	Coal Fundamental Prices
	Rail Rates
	Barge Rates
	Assumptions

Florida- Fall 2019 IRP Refresh Update - Coal

No Carbon

********** Key Assumptions - PLEASE READ **********

1. Using the following CERA fundamental price forecast in Nominal dollars (see the "Coal Price Inputs" sheet):

   Source File: Fuel-Forecast_Fall_2019_IHS_New ILB

   Source Tab: Coal Fall 2019

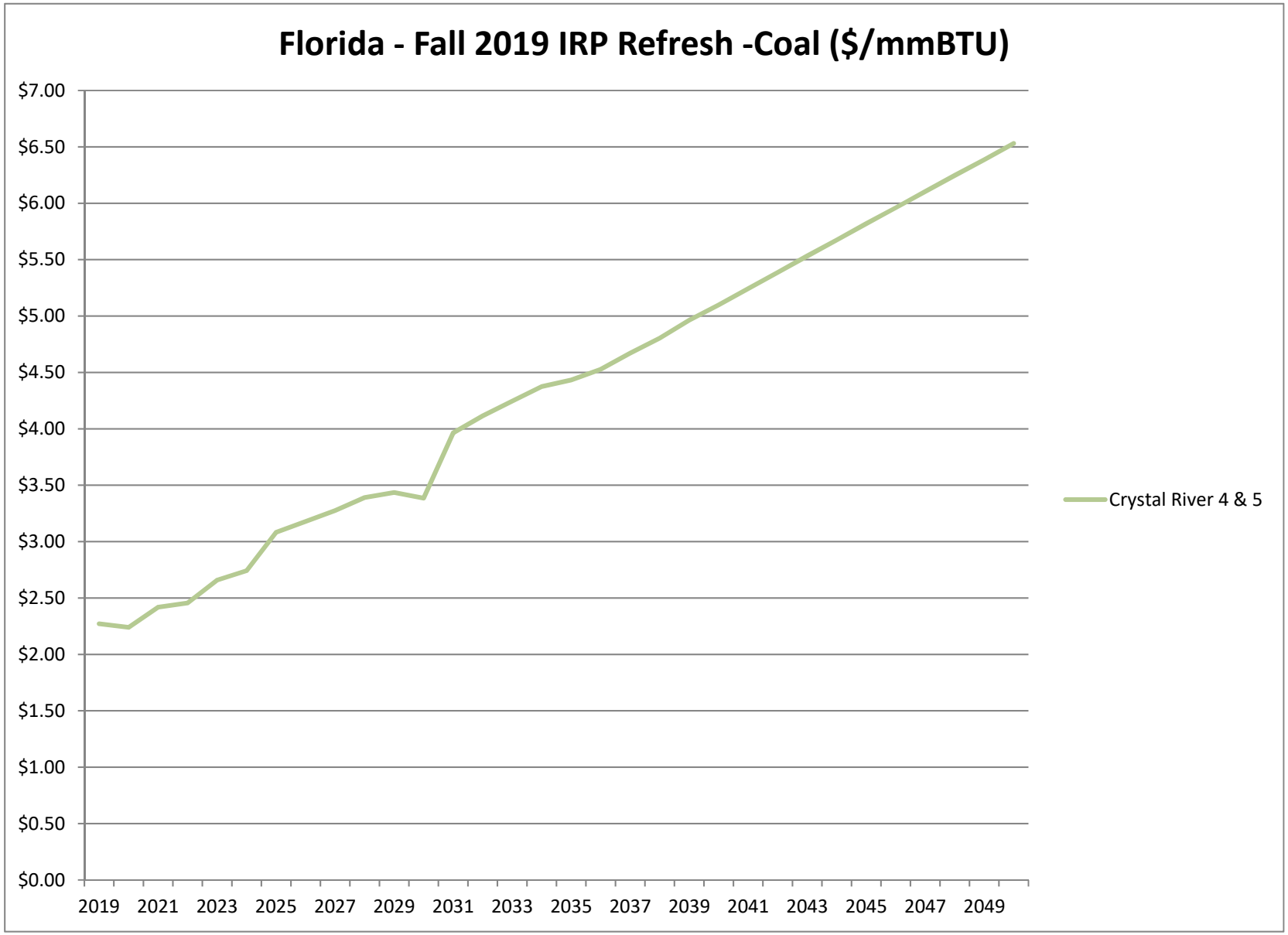
   From: Andrew James via e-mail on 10/04/2019

2. Vendors for the fundemental price curves changed in 2017 from EVA to CERA. With this change there was a reduction in the number of coal prices forecasts provided for each region. However, where transportation rates provided alternative delivery methods for the same coal price forecast a delivered price was calculated.
3. This is an evaluation of the delivered cost per mmbtu only (coal price plus transportation cost). See the "Master" sheet for the overall summary of the lowest cost alternatives by station by year (including cost and quality). Additional cost adjustments for scrubber costs, O&M, etc. could be added upon request.
4. The delivered cost per mmbtu was calculated for all coal alternatives that can be transported to each station (see the sheets for each station). The coal alternative with the lowest delivered cost was then able to be identified and chosen for each year. This format allows the reviewer to see the delivered costs for all alternatives, regardless of whether or not they were not chosen (enables quick review of cost deltas for the next lowest cost alternatives). Where the station cannot burn the single lowest cost alternative at 100%, the lowest cost blend was determined.
5. This update incorporates unit capability constraints (Min BTU, Max SO2, Max Ash, Max Chlorine, and Max Mercury) and current capacity for on-site blending as we know them today.
6. Does not include any other adders for sulfur removal costs, O&M impacts or anything else. However, please note these additional cost impacts can be incorporated into the analysis upon request.
7. The CSX rail transportation rates assume the current proposed rates based off of Aug. 2019 CSX rate proposal (with Fuel Surcharge calculations based on COB 9/12/2019 WTI fuel pricing and AII-LF based on the actual index numbers through Q3 2019). The rates are escalated at 2.0% annually for 2020 through 2050.

8 For additional rail and barge assumptions see tab " Transportation Rate assumptions".

9 Crystal River Units 1&2 retirement occurred 12/31/18

10 This IRP is for planning purposes only. Using fundamental pricing for coal and market estimates for transportation rates. This evaluation does not include the modeling of the existing contractual commitments for coal, transportation and trans-loading.


Florida - Fall 2019 IRP Refresh -Coal ($/mmBTU)
$7.00
$6.50
$6.00
$5.50
$5.00
$4.50
$4.00
$3.50
$3.00
$2.50
$2.00
$1.50
$1.00
$0.50
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2019
2021
2023
2025
2027
2029
2031
2033
2035
2037
2039
2041
2043
2045
2047
2049
Crystal River 4 & 5

Florida- Fall 2019 IRP Refresh Update - Coal

No Carbon

** Indicates unit capability constraints prevented selection of 100% of the lowest cost alternative

DELIVERED COST ($/MMBTU)

Station	Lowest Cost Alternatives	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Crystal River 4 & 5	A 50%/50% blend of IL-OH Rvr 11,500 5# & IL-OH Rvr 11,000 6# 2019-2030, and a 30%/60%/10% blend of IL-OH Rvr 11,500 5#, IL-OH Rvr 11,000 6#, & NAPP Rail 113,0004# coal 2031-2050**	$2.27	$2.24	$2.42	$2.46	$2.66	$2.74	$3.08	$3.18	$3.28	$3.39	$3.44	$3.39	$3.96	$4.11	$4.25	$4.37	$4.43	$4.53	$4.67	$4.80	$4.96	$5.10	$5.24	$5.39	$5.53	$5.67	$5.82	$5.96	$6.10	$6.25	$6.39	$6.53

BTU	Minimum BTU Limit	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Crystal River 4 & 5	10,700	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350

SO2 (#/mmbtu)	Max SO2 Limit	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Crystal River 4 & 5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5

ASH	Max Ash Limit	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Crystal River 4 & 5	13%	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8

MERCURY (Hg) - ppm dry	Max Mercury (Hg) Limit	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Crystal River 4 & 5	NA	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104

CHLORINE % AR	Max Chlorine Limit - ppm	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
Crystal River 4 & 5	0.25%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%

Market - COB 10/12/2018										esc@2.5%																							
CRN		$2.03	$2.12	$2.18	$2.26	$2.43	$2.50	$2.56	$2.56	$2.63	$2.69																						
Blend																																	
Market	100%	100%	100%	100%	100%	89%	69%	49%	29%	9%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Fundamentals	0%	0%	0%	0%	0%	11%	31%	51%	71%	91%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
Final Forecast																																	
CRN	$2.03	$2.12	$2.18	$2.26	$2.43	$2.52	$2.72	$2.88	$3.09	$3.33	$3.44	$3.39	$3.96	$4.11	$4.25	$4.37	$4.43	$4.53	$4.67	$4.80	$4.96	$5.10	$5.24	$5.39	$5.53	$5.67	$5.82	$5.96	$6.10	$6.25	$6.39	$6.53

Florida- Fall 2019 IRP Refresh Update - Coal No Carbon

LOWEST COST ALTERNATIVE (Delivered $/mmbtu)

		Limits:	Min BTU	Max SO2	Max Ash	Max Cl		2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
							Cost ($/mmbtu):	$2.27	$2.24	$2.42	$2.46	$2.66	$2.74	$3.08	$3.18	$3.28	$3.39	$3.44	$3.39	$3.96	$4.11	$4.25	$4.37	$4.43	$4.53	$4.67	$4.80	$4.96	$5.10	$5.24
Crystal River 4 & 5	A 50%/50% blend of IL-OH Rvr 11,500 5# & IL-OH Rvr 11,000 6# 2019-2030, and a 30%/60%/10% blend of IL-OH Rvr 11,500 5#, IL-OH Rvr 11,000 6#, & NAPP Rail 113,0004# coal 2031-2050**		10,700	5.5	13.0%	0.25%	BTU/lb:	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,250	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350	11,350
							SO2 (#/mmbtu):	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.49	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47	5.47
							Ash (%):	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8	9.8
							Hg (ppm - dry):	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104	0.104
							Chlorine %AR	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.13%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%	0.12%
							Delta to Single Lowest Cost Alternative:	$0.03	$0.03	$0.03	$0.03	$0.03	$0.03	$0.03	$0.03	$0.03	$0.03	$0.03	$0.03	$0.25	$0.27	$0.26	$0.27	$0.29	$0.27	$0.27	$0.28	$0.29	$0.29	$0.29

SELECTED PERCENTAGES

Station	Basin	Coal Type	FOB Point	Btu/lb	#SO2/MMBtu	%Ash	Hg (ppm - dry)	Chlorine % AR	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
Crystal River 4&5	NAPP	Pittsburgh Seam	Rail	13,000	4	8	0.122	0.10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
Crystal River 4&5	NAPP	Pittsburgh Seam	Barge	13,000	4	8	0.122	0.10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	CAPP	Low-Sulfur	Rail	12,500	1.6	10	0.110	0.10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	CAPP	Low-Sulfur	Barge	12,500	1.67	10	0.110	0.10%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Illinois	Rail	11,500	5	10	0.102	0.30%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Illinois	Barge	11,500	5	10	0.102	0.15%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%	30%
Crystal River 4&5	ILB	Illinois	Rail	11,500	5	10	0.102	0.12%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Illinois	Barge	11,000	6	10	0.102	0.10%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%
Crystal River 4&5	ILB	Illinois	Rail	11,000	6	10	0.102	0.15%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Illinois	Barge	11,800	4.5	10	0.102	0.20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Illinois	Barge	11,800	4.5	10	0.102	0.20%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Low Chlorine	Barge	11,500	5.2	10	0.102	0.08%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	ILB	Low Chlorine	Rail	11,500	5.2	10	0.102	0.08%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	PRB	High-Btu Gillette	Rail	8,800	0.8	5	0.060	0.01%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	RM	Rockies	Rail	11,700	0.8	8	0.040	0.02%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
Crystal River 4&5	RM	Rockies	Barge	11,700	0.8	8	0.040	0.02%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%	0%
									100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%

DELIVERED COST ($/MMBTU)

							Single Lowest Cost Alternative:		$2.25	$2.21	$2.39	$2.42	$2.63	$2.71	$3.05	$3.15	$3.24	$3.36	$3.40	$3.36	$3.71	$3.85	$3.98	$4.10	$4.15	$4.25	$4.40	$4.52	$4.68	$4.81	$4.95
Station	Basin	Coal Type	FOB Point	Btu/lb	#SO2/MMBtu	%Ash	Hg (ppm - dry)	Chlorine % AR	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041
Crystal River 4&5	NAPP	Pittsburgh Seam	Rail	13,000	4	8	0.122	0.10%	$2.84	$2.82	$3.13	$3.13	$3.31	$3.32	$3.42	$3.56	$3.66	$3.77	$3.87	$3.94	$4.06	$4.22	$4.30	$4.43	$4.56	$4.49	$4.57	$4.69	$4.82	$4.95	$5.07
Crystal River 4&5	NAPP	Pittsburgh Seam	Barge	13,000	4	8	0.122	0.10%	$2.63	$2.62	$2.90	$2.90	$3.17	$3.17	$3.49	$3.62	$3.74	$3.85	$3.97	$4.04	$4.42	$4.60	$4.68	$4.82	$4.96	$4.90	$4.99	$5.12	$5.26	$5.40	$5.53
Crystal River 4&5	CAPP	Low-Sulfur	Rail	12,500	1.6	10	0.110	0.10%	$3.26	$2.88	$3.40	$3.59	$3.72	$3.84	$3.98	$4.12	$4.27	$4.41	$4.52	$4.62	$4.81	$4.82	$5.00	$5.15	$5.34	$5.54	$5.74	$5.95	$5.93	$6.11	$6.26
Crystal River 4&5	CAPP	Low-Sulfur	Barge	12,500	1.67	10	0.110	0.10%	$3.00	$2.62	$3.12	$3.31	$3.53	$3.64	$4.01	$4.14	$4.31	$4.46	$4.57	$4.68	$5.14	$5.16	$5.34	$5.50	$5.70	$5.91	$6.11	$6.34	$6.32	$6.52	$6.67
Crystal River 4&5	ILB	Illinois	Rail	11,500	5	10	0.102	0.30%	$2.74	$2.70	$2.91	$2.96	$3.06	$3.16	$3.25	$3.37	$3.45	$3.56	$3.61	$3.55	$3.84	$3.99	$4.12	$4.25	$4.30	$4.41	$4.56	$4.68	$4.85	$4.98	$5.13
Crystal River 4&5	ILB	Illinois	Barge	11,500	5	10	0.102	0.15%	$2.30	$2.27	$2.45	$2.49	$2.69	$2.78	$3.11	$3.21	$3.31	$3.42	$3.47	$3.41	$3.99	$4.14	$4.28	$4.42	$4.47	$4.58	$4.73	$4.87	$5.03	$5.17	$5.32
Crystal River 4&5	ILB	Illinois	Rail	11,500	5	10	0.102	0.12%	$2.63	$2.65	$2.86	$2.90	$3.01	$3.11	$3.20	$3.31	$3.39	$3.50	$3.54	$3.49	$3.78	$3.92	$4.06	$4.19	$4.23	$4.34	$4.48	$4.61	$4.77	$4.91	$5.05
Crystal River 4&5	ILB	Illinois	Barge	11,000	6	10	0.102	0.10%	$2.25	$2.21	$2.39	$2.42	$2.63	$2.71	$3.05	$3.15	$3.24	$3.36	$3.40	$3.36	$3.94	$4.08	$4.22	$4.35	$4.40	$4.51	$4.66	$4.79	$4.95	$5.09	$5.23
Crystal River 4&5	ILB	Illinois	Rail	11,000	6	10	0.102	0.15%	$2.59	$2.62	$2.81	$2.86	$2.96	$3.06	$3.14	$3.25	$3.33	$3.44	$3.48	$3.43	$3.71	$3.85	$3.98	$4.10	$4.15	$4.25	$4.40	$4.52	$4.68	$4.81	$4.95
Crystal River 4&5	ILB	Illinois	Barge	11,800	4.5	10	0.102	0.20%	$2.29	$2.25	$2.43	$2.56	$2.78	$2.88	$3.21	$3.32	$3.42	$3.54	$3.58	$3.52	$4.11	$4.27	$4.41	$4.55	$4.60	$4.72	$4.88	$5.02	$5.19	$5.34	$5.49
Crystal River 4&5	ILB	Illinois	Barge	11,800	4.5	10	0.102	0.20%	$2.61	$2.58	$2.73	$2.85	$3.08	$3.18	$3.52	$3.63	$3.74	$3.87	$3.92	$3.87	$4.47	$4.63	$4.78	$4.93	$4.99	$5.11	$5.28	$5.43	$5.61	$5.77	$5.93
Crystal River 4&5	ILB	Low Chlorine	Barge	11,500	5.2	10	0.102	0.08%	$2.38	$2.37	$2.56	$2.70	$2.94	$3.04	$3.38	$3.49	$3.59	$3.72	$3.77	$3.71	$4.32	$4.48	$4.64	$4.78	$4.84	$4.96	$5.13	$5.28	$5.46	$5.61	$5.78
Crystal River 4&5	ILB	Low Chlorine	Rail	11,500	5.2	10	0.102	0.08%	$2.59	$2.59	$2.79	$2.94	$3.07	$3.18	$3.27	$3.39	$3.48	$3.60	$3.64	$3.57	$3.88	$4.04	$4.18	$4.32	$4.36	$4.47	$4.63	$4.77	$4.94	$5.08	$5.24
Crystal River 4&5	PRB	High-Btu Gillette	Rail	8,800	0.8	5	0.060	0.01%	$3.08	$3.10	$3.18	$3.28	$3.37	$3.45	$3.54	$3.64	$3.73	$3.83	$3.92	$4.02	$4.13	$4.23	$4.34	$4.45	$4.57	$4.66	$4.78	$4.91	$5.03	$5.17	$5.29
Crystal River 4&5	RM	Rockies	Rail	11,700	0.8	8	0.040	0.02%	$3.91	$3.98	$4.13	$4.21	$4.38	$4.51	$4.64	$4.71	$4.83	$4.96	$5.10	$5.21	$5.35	$5.50	$5.52	$5.66	$5.82	$5.98	$5.96	$6.13	$6.30	$6.48	$6.61

Florida- Fall 2019 IRP Refresh Update - Coal No Carbon

CERA Fundamental Price Forecast*

Source File: Fuel-Forecast_Fall_2019_IHS_New ILB Source Tab: Coal Fall 2019

From: Andrew James via e-mail on 10/04/2019

* Internal escalation rate of 2.5% applied starting in 2041 due to escalation rate error in HIS supplied market update (per email from Mike Quinto received 4/25/19)

Updated: 10/7/2019 Tiffany Weir

Basin	Coal Type	FOB Point	Btu/lb	#SO2/MMBtu	%Ash	Avg Hg ppm (dry)	Chlorine % AR	INDEX	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
								Inflator 2018 = 1.0>>>	1.000	1.020	1.047	1.073	1.095	1.117	1.139	1.161	1.184	1.207	1.231	1.256	1.281	1.307	1.334	1.360	1.388	1.416	1.444	1.473	1.502	1.531	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500
NAPP	Pittsburgh Seam	Rail	13,000	4.0	8.0	0.122	0.10%	NAPP-Pitt-CSX/NS-MGA-13000-HS-4.0	$46.00	$45.49	$52.75	$52.16	$56.11	$55.63	$57.44	$60.38	$62.33	$64.36	$66.48	$67.50	$69.81	$73.47	$74.67	$77.25	$79.90	$77.50	$78.72	$81.11	$83.60	$86.18	$88.40	$90.81	$93.21	$95.57	$97.88	$100.20	$102.51	$104.80	$107.08	$109.35
NAPP	Pittsburgh Seam	Barge	13,000	4.0	8.0	0.122	0.10%	NAPP-Pitt-Barge-MonR-13000-HS-4.0	$46.00	$45.49	$52.75	$52.16	$56.11	$55.63	$57.44	$60.38	$62.33	$64.36	$66.48	$67.50	$69.81	$73.47	$74.67	$77.25	$79.90	$77.50	$78.72	$81.11	$83.60	$86.18	$88.40	$90.81	$93.21	$95.57	$97.88	$100.20	$102.51	$104.80	$107.08	$109.35
CAPP	Low-Sulfur	Rail	12,500	1.6	10.0	0.110	0.10%	CAPP-EKY-CSX-Big Sandy-12500-LS-1.6	$57.39	$47.68	$60.06	$64.45	$66.93	$69.35	$72.08	$75.06	$78.13	$81.19	$83.17	$85.13	$89.25	$88.98	$92.77	$95.94	$100.02	$104.28	$108.60	$113.26	$111.99	$115.83	$118.78	$121.38	$123.49	$126.33	$128.95	$131.50	$134.04	$136.67	$139.25	$141.83
CAPP	Low-Sulfur	Barge	12,500	1.6	10.0	0.110	0.10%	CAPP-EKY-Barge-BSR-12000-LS-1.6	$57.39	$47.68	$60.06	$64.45	$66.93	$69.35	$72.08	$75.06	$78.13	$81.19	$83.17	$85.13	$89.25	$88.98	$92.77	$95.94	$100.02	$104.28	$108.60	$113.26	$111.99	$115.83	$118.78	$121.38	$123.49	$126.33	$128.95	$131.50	$134.04	$136.67	$139.25	$141.83
ILB	Illinois	Rail	11,500	5.0	10.0	0.102	0.30%	ILLB-IL-Rail-South IL-11500-VH-5	$40.03	$39.17	$43.28	$43.87	$45.79	$47.39	$48.88	$50.82	$52.20	$54.28	$54.68	$52.87	$58.97	$61.71	$64.27	$66.62	$67.00	$68.89	$71.70	$74.01	$77.07	$79.50	$82.18	$84.78	$87.42	$89.95	$92.50	$95.02	$97.53	$99.99	$102.45	$104.88
ILB	Illinois	Barge	11,500	5.0	10.0	0.102	0.15%	ILLB-IL-Barge-OhioR-11500-XH-5	$40.03	$39.17	$43.28	$43.87	$45.79	$47.39	$48.88	$50.82	$52.20	$54.28	$54.68	$52.87	$58.97	$61.71	$64.27	$66.62	$67.00	$68.89	$71.70	$74.01	$77.07	$79.50	$82.18	$84.78	$87.42	$89.95	$92.50	$95.02	$97.53	$99.99	$102.45	$104.88
ILB	Illinois	Rail	11,500	5.0	10.0	0.102	0.12%	ILLB-IN-Rail-Sullivan-11500-VH-5	$40.03	$39.17	$43.28	$43.87	$45.79	$47.39	$48.88	$50.82	$52.20	$54.28	$54.68	$52.87	$58.97	$61.71	$64.27	$66.62	$67.00	$68.89	$71.70	$74.01	$77.07	$79.50	$82.18	$84.78	$87.42	$89.95	$92.50	$95.02	$97.53	$99.99	$102.45	$104.88
ILB	Illinois	Barge	11,000	6.0	10.0	0.102	0.10%	ILLB-WKY-Barge-OhioR-11000-XH-6	$36.58	$35.67	$39.41	$39.95	$41.69	$43.16	$44.51	$46.28	$47.53	$49.43	$49.79	$48.15	$53.70	$56.19	$58.53	$60.66	$61.01	$62.73	$65.29	$67.39	$70.18	$72.40	$74.83	$77.20	$79.61	$81.91	$84.23	$86.53	$88.81	$91.06	$93.29	$95.50
ILB	Illinois	Rail	11,000	6.0	10.0	0.102	0.15%	ILLB-IN-Rail-Sullivan-11000-XH-6	$36.58	$35.67	$39.41	$39.95	$41.69	$43.16	$44.51	$46.28	$47.53	$49.43	$49.79	$48.15	$53.70	$56.19	$58.53	$60.66	$61.01	$62.73	$65.29	$67.39	$70.18	$72.40	$74.83	$77.20	$79.61	$81.91	$84.23	$86.53	$88.81	$91.06	$93.29	$95.50
ILB	Illinois	Rail	11,000	6.0	10.0	0.102	0.15%	ILLB-IL-Rail-Central IL-11000-XH-6	$36.58	$35.67	$39.41	$39.95	$41.69	$43.16	$44.51	$46.28	$47.53	$49.43	$49.79	$48.15	$53.70	$56.19	$58.53	$60.66	$61.01	$62.73	$65.29	$67.39	$70.18	$72.40	$74.83	$77.20	$79.61	$81.91	$84.23	$86.53	$88.81	$91.06	$93.29	$95.50
ILB	Illinois	Barge	11,800	4.5	10.0	0.102	0.20%	ILLB-WKY-Barge-Green River-11800-XH-4.5	$41.15	$40.12	$44.24	$47.01	$49.63	$51.52	$53.14	$55.25	$56.75	$59.01	$59.45	$57.48	$64.11	$67.09	$69.87	$72.43	$72.84	$74.89	$77.95	$80.46	$83.79	$86.44	$89.34	$92.17	$95.04	$97.79	$100.57	$103.31	$106.03	$108.71	$111.38	$114.02
ILB	Illinois	Barge	11,800	4.5	10.0	0.102	0.20%	ILLB-WKY-Barge-OhioR-11800-XH-4.5	$41.15	$40.12	$44.24	$47.01	$49.63	$51.52	$53.14	$55.25	$56.75	$59.01	$59.45	$57.48	$64.11	$67.09	$69.87	$72.43	$72.84	$74.89	$77.95	$80.46	$83.79	$86.44	$89.34	$92.17	$95.04	$97.79	$100.57	$103.31	$106.03	$108.71	$111.38	$114.02
ILB	Low Chlorine	Barge	11,500	5.2	10.0	0.102	0.08%	ILLB-WKY-Barge-OhioR-11500-VH-5.2-LC-.8	$41.86	$41.59	$45.86	$48.72	$51.44	$53.40	$55.08	$57.27	$58.82	$61.17	$61.62	$59.58	$66.45	$69.54	$72.42	$75.07	$75.50	$77.63	$80.80	$83.40	$86.85	$89.59	$92.60	$95.53	$98.51	$101.36	$104.24	$107.08	$109.90	$112.68	$115.45	$118.18
ILB	Low Chlorine	Rail	11,500	5.2	10.0	0.102	0.08%	ILLB-WKY-CSX-WKY-11500-VH-5.2-LC-.8	$41.86	$41.59	$45.86	$48.72	$51.44	$53.40	$55.08	$57.27	$58.82	$61.17	$61.62	$59.58	$66.45	$69.54	$72.42	$75.07	$75.50	$77.63	$80.80	$83.40	$86.85	$89.59	$92.60	$95.53	$98.51	$101.36	$104.24	$107.08	$109.90	$112.68	$115.45	$118.18
PRB	High-Btu Gillette	Rail	8,800	0.8	5.0	0.060	0.01%	PRB-WY-BN/UP-Gillette-8800-CS-0.8	$12.21	$12.23	$12.52	$13.28	$13.76	$14.08	$14.58	$15.18	$15.82	$16.46	$17.14	$17.85	$18.60	$19.37	$20.18	$21.03	$21.91	$22.37	$23.30	$24.28	$25.30	$26.35	$27.27	$28.23	$29.21	$30.24	$31.30	$32.39	$33.52	$34.70	$35.91	$37.17
RM	Rockies	Rail	11,700	0.8	8.0	0.040	0.02%	Rockies-CO-UP-North Fork-11700-CS-.8	$32.54	$33.64	$35.71	$36.10	$38.56	$40.08	$41.66	$41.49	$43.09	$44.76	$46.52	$47.52	$49.43	$51.42	$50.25	$52.05	$54.14	$56.33	$54.14	$56.34	$58.64	$61.04	$62.29	$64.31	$66.26	$68.13	$69.87	$71.72	$73.54	$75.31	$77.07	$78.84
RM	Rockies	Barge	11,700	0.8	8.0	0.040	0.02%	Rockies-CO-UP-North Fork-11700-CS-.8	$32.54	$33.64	$35.71	$36.10	$38.56	$40.08	$41.66	$41.49	$43.09	$44.76	$46.52	$47.52	$49.43	$51.42	$50.25	$52.05	$54.14	$56.33	$54.14	$56.34	$58.64	$61.04	$62.29	$64.31	$66.26	$68.13	$69.87	$71.72	$73.54	$75.31	$77.07	$78.84

Price Forecast Received from Andrew James via e-mail on 9/17/19 (Nominal $/ton) **

Reviewed transportation delivery locations with Shawn Shultz, Manager Coal Transportation 10/2018

With ILB Curve Updates from NEW ILB file received 10/4

CSX Rate Master Updated: 10/2/2019 tw **Post 2026 escalation:** 2.0% **Source:** \\cltpsmf02\fuelpur\PLANNING\IRP Refresh Files\2019 Fall IRP Refresh\Supporting Files\DEF Florida CSX Conventional Rail Rate Scenario_100219.xlsm

			CAPP					NAPP				ILB						Energy, CO	ConJunction, WY						
Key	Station	Year	Typo, KY	Resource, KY	Phillips, WV	Bull Creek 2, WV	Hutchinson, WV	Harrison Co, WV	Bailey Mine, PA	Marion Co, WV	Monongalia Co, WV	Evansville, IN	White Oak, IL	Oaktown,IN	Carlisle, IN	BearRun,IN	Cardinal 9, KY	CSX UP	CSX PRB	CSX CAPP Basin	CSX NAPP Basin	CSX ILB Basin	CSX CN Galatia	CSX Sullivan	CSX Western KY
Crystal River 4&5 2019	Crystal River 4&5	**2019**	$23.51	$20.13	$27.82	$24.57	$25.13	$28.51	$29.55	$26.09	$27.50	$21.29	$23.01	$21.31	$20.96	$22.83	$17.78	$58.88	$41.98	$24.23	$27.91	$21.20	$23.01	$20.40	$17.78
Crystal River 4&5 2020	Crystal River 4&5	2020	$23.51	$20.13	$27.82	$24.57	$25.13	$28.51	$29.55	$26.09	$27.50	$21.29	$23.01	$21.31	$20.96	$22.83	$17.94	$59.41	$42.36	$24.23	$27.91	$21.23	$23.01	$21.88	$17.94
Crystal River 4&5 2021	Crystal River 4&5	2021	$24.11	$20.65	$28.57	$25.21	$25.78	$29.24	$30.32	$26.75	$28.20	$21.84	$23.60	$21.84	$21.48	$23.39	$18.38	$60.85	$43.39	$24.86	$28.63	$21.75	$23.60	$22.43	$18.38
Crystal River 4&5 2022	Crystal River 4&5	2022	$24.62	$21.08	$29.10	$25.73	$26.31	$29.86	$30.93	$27.34	$28.81	$22.30	$24.10	$22.34	$21.99	$23.95	$18.82	$62.32	$44.44	$25.37	$29.23	$22.25	$24.10	$22.94	$18.82
Crystal River 4&5 2023	Crystal River 4&5	2023	$25.23	$21.60	$29.84	$26.37	$26.97	$30.60	$31.71	$28.01	$29.52	$22.86	$24.70	$22.89	$22.52	$24.53	$19.28	$63.83	$45.51	$26.00	$29.96	$22.80	$24.70	$23.50	$19.28
Crystal River 4&5 2024	Crystal River 4&5	2024	$25.88	$22.16	$30.64	$27.06	$27.67	$31.39	$32.54	$28.72	$30.27	$23.45	$25.33	$23.46	$23.07	$25.13	$19.74	$65.38	$46.61	$26.68	$30.73	$23.36	$25.33	$24.09	$19.74
Crystal River 4&5 2025	Crystal River 4&5	2025	$26.52	$22.71	$31.41	$27.73	$28.35	$32.16	$33.35	$29.43	$31.02	$24.03	$25.96	$24.03	$23.63	$25.74	$20.22	$66.96	$47.74	$27.35	$31.49	$23.93	$25.96	$24.68	$20.22
Crystal River 4&5 2026	Crystal River 4&5	2026	$27.19	$23.28	$32.20	$28.42	$29.06	$32.97	$34.19	$30.16	$31.80	$24.63	$26.61	$24.63	$24.23	$26.38	$20.73	$68.64	$48.94	$28.03	$32.28	$24.53	$26.61	$25.29	$20.73
Crystal River 4&5 2027	Crystal River 4&5	2027	$27.73	$23.75	$32.84	$28.99	$29.64	$33.63	$34.87	$30.76	$32.43	$25.12	$27.14	$25.12	$24.71	$26.91	$21.14	$70.01	$49.92	$28.59	$32.92	$25.02	$27.14	$25.80	$21.14
Crystal River 4&5 2028	Crystal River 4&5	2028	$28.28	$24.22	$33.50	$29.57	$30.24	$34.30	$35.57	$31.38	$33.08	$25.62	$27.68	$25.63	$25.20	$27.45	$21.56	$71.41	$50.91	$29.16	$33.58	$25.52	$27.68	$26.32	$21.56
Crystal River 4&5 2029	Crystal River 4&5	2029	$28.85	$24.71	$34.17	$30.16	$30.84	$34.99	$36.28	$32.01	$33.74	$26.13	$28.24	$26.14	$25.71	$27.99	$21.99	$72.84	$51.93	$29.75	$34.25	$26.03	$28.24	$26.84	$21.99
Crystal River 4&5 2030	Crystal River 4&5	2030	$29.43	$25.20	$34.85	$30.76	$31.46	$35.69	$37.00	$32.65	$34.42	$26.66	$28.80	$26.66	$26.22	$28.55	$22.43	$74.29	$52.97	$30.34	$34.94	$26.56	$28.80	$27.38	$22.43
Crystal River 4&5 2031	Crystal River 4&5	2031	$30.02	$25.70	$35.55	$31.38	$32.09	$36.40	$37.74	$33.30	$35.10	$27.19	$29.38	$27.20	$26.75	$29.13	$22.88	$75.78	$54.03	$30.95	$35.64	$27.09	$29.38	$27.93	$22.88
Crystal River 4&5 2032	Crystal River 4&5	2032	$30.62	$26.22	$36.26	$32.01	$32.73	$37.13	$38.50	$33.97	$35.81	$27.73	$29.96	$27.74	$27.28	$29.71	$23.34	$77.30	$55.11	$31.57	$36.35	$27.63	$29.96	$28.49	$23.34
Crystal River 4&5 2033	Crystal River 4&5	2033	$31.23	$26.74	$36.99	$32.65	$33.38	$37.87	$39.27	$34.65	$36.52	$28.29	$30.56	$28.29	$27.83	$30.30	$23.81	$78.84	$56.21	$32.20	$37.08	$28.18	$30.56	$29.06	$23.81
Crystal River 4&5 2034	Crystal River 4&5	2034	$31.85	$27.28	$37.73	$33.30	$34.05	$38.63	$40.05	$35.34	$37.25	$28.85	$31.18	$28.86	$28.38	$30.91	$24.28	$80.42	$57.34	$32.84	$37.82	$28.74	$31.18	$29.64	$24.28
Crystal River 4&5 2035	Crystal River 4&5	2035	$32.49	$27.82	$38.48	$33.97	$34.73	$39.40	$40.86	$36.05	$38.00	$29.43	$31.80	$29.44	$28.95	$31.53	$24.77	$82.03	$58.48	$33.50	$38.57	$29.32	$31.80	$30.23	$24.77
Crystal River 4&5 2036	Crystal River 4&5	2036	$33.14	$28.38	$39.25	$34.65	$35.43	$40.19	$41.67	$36.77	$38.76	$30.02	$32.43	$30.03	$29.53	$32.16	$25.27	$83.67	$59.65	$34.17	$39.35	$29.91	$32.43	$30.83	$25.27
Crystal River 4&5 2037	Crystal River 4&5	2037	$33.80	$28.95	$40.04	$35.34	$36.14	$40.99	$42.51	$37.50	$39.53	$30.62	$33.08	$30.63	$30.12	$32.80	$25.77	$85.34	$60.85	$34.85	$40.13	$30.50	$33.08	$31.45	$25.77
Crystal River 4&5 2038	Crystal River 4&5	2038	$34.48	$29.53	$40.84	$36.05	$36.86	$41.81	$43.36	$38.25	$40.32	$31.23	$33.75	$31.24	$30.72	$33.46	$26.29	$87.05	$62.06	$35.55	$40.94	$31.11	$33.75	$32.08	$26.29
Crystal River 4&5 2039	Crystal River 4&5	2039	$35.17	$30.12	$41.65	$36.77	$37.60	$42.65	$44.22	$39.02	$41.13	$31.86	$34.42	$31.86	$31.34	$34.13	$26.81	$88.79	$63.30	$36.26	$41.75	$31.74	$34.42	$32.72	$26.81
Crystal River 4&5 2040	Crystal River 4&5	2040	$35.87	$30.72	$42.49	$37.50	$38.35	$43.50	$45.11	$39.80	$41.95	$32.49	$35.11	$32.50	$31.97	$34.81	$27.35	$90.56	$64.57	$36.98	$42.59	$32.37	$35.11	$33.38	$27.35
Crystal River 4&5 2041	Crystal River 4&5	2041	$36.59	$31.33	$43.34	$38.25	$39.11	$44.37	$46.01	$40.59	$42.79	$33.14	$35.81	$33.15	$32.60	$35.50	$27.89	$92.38	$65.86	$37.72	$43.44	$33.02	$35.81	$34.04	$27.89
Crystal River 4&5 2042	Crystal River 4&5	2042	$37.32	$31.96	$44.20	$39.02	$39.90	$45.26	$46.93	$41.40	$43.65	$33.81	$36.53	$33.81	$33.26	$36.21	$28.45	$94.22	$67.18	$38.48	$44.31	$33.68	$36.53	$34.72	$28.45
Crystal River 4&5 2043	Crystal River 4&5	2043	$38.07	$32.60	$45.09	$39.80	$40.69	$46.16	$47.87	$42.23	$44.52	$34.48	$37.26	$34.49	$33.92	$36.94	$29.02	$96.11	$68.52	$39.25	$45.20	$34.35	$37.26	$35.42	$29.02
Crystal River 4&5 2044	Crystal River 4&5	2044	$38.83	$33.25	$45.99	$40.59	$41.51	$47.09	$48.83	$43.08	$45.41	$35.17	$38.00	$35.18	$34.60	$37.68	$29.60	$98.03	$69.89	$40.03	$46.10	$35.04	$38.00	$36.13	$29.60
Crystal River 4&5 2045	Crystal River 4&5	2045	$39.60	$33.92	$46.91	$41.40	$42.34	$48.03	$49.80	$43.94	$46.32	$35.88	$38.76	$35.88	$35.29	$38.43	$30.19	$99.99	$71.29	$40.83	$47.02	$35.74	$38.76	$36.85	$30.19
Crystal River 4&5 2046	Crystal River 4&5	2046	$40.40	$34.59	$47.85	$42.23	$43.19	$48.99	$50.80	$44.82	$47.25	$36.59	$39.54	$36.60	$36.00	$39.20	$30.80	$101.99	$72.72	$41.65	$47.96	$36.45	$39.54	$37.59	$30.80
Crystal River 4&5 2047	Crystal River 4&5	2047	$41.20	$35.29	$48.80	$43.08	$44.05	$49.97	$51.81	$45.71	$48.19	$37.32	$40.33	$37.33	$36.72	$39.98	$31.41	$104.03	$74.17	$42.48	$48.92	$37.18	$40.33	$38.34	$31.41
Crystal River 4&5 2048	Crystal River 4&5	2048	$42.03	$35.99	$49.78	$43.94	$44.93	$50.97	$52.85	$46.63	$49.15	$38.07	$41.14	$38.08	$37.45	$40.78	$32.04	$106.11	$75.65	$43.33	$49.90	$37.93	$41.14	$39.10	$32.04
Crystal River 4&5 2049	Crystal River 4&5	2049	$42.87	$36.71	$50.78	$44.82	$45.83	$51.99	$53.91	$47.56	$50.14	$38.83	$41.96	$38.84	$38.20	$41.60	$32.68	$108.23	$77.17	$44.20	$50.90	$38.69	$41.96	$39.89	$32.68
Crystal River 4&5 2050	Crystal River 4&5	2050	$43.73	$37.45	$51.79	$45.71	$46.75	$53.03	$54.99	$48.51	$51.14	$39.61	$42.80	$39.62	$38.97	$42.43	$33.34	$110.40	$78.71	$45.08	$51.92	$39.46	$42.80	$40.68	$33.34

Misc Rates

5 Year Escalation Rate 2.0%

Base Rail Rates ($/ton)

	Cora	Cook	Calvert City	Houston	Crystal River
Twenty Mile	$29.00	$30.75	$32.00	$34.25	$58.25
West Elk	$30.50	$32.25	$33.50	$35.75	$59.25
Bowie	$30.50	$32.25	$33.50	$35.75	$59.25

Total Rate ($/ton)

	Cora	Cook	Calvert City	Houston	Crystal River
Twenty Mile	$30.92	$32.86	$34.16	$36.65	$62.87
West Elk	$32.58	$34.49	$35.82	$38.31	$64.09
Bowie	$32.58	$34.49	$35.82	$38.31	$64.09

Mileage

	Cora	Cook	Calvert City	Houston	Crystal River
Twenty Mile	1203	1321	1349	1500	2100
West Elk	1300	1400	1450	1600	2200
Bowie	1300	1400	1450	1600	2200

UP 0.16 $/ton-mile HDF Price

CSX 0.22 $/ton-mile 2.858 $/gallon

Barge Rate Master Updated: 10/2/2019 tw **Post 2024 escalation:** 2.0% **Source:** \\cltpsmf02\FuelPUR\Planning\IRP Refresh Files\Fall 2019 IRP Refresh\Supporting Files\Fall 2019 FLORIDA BARGE FOF_Working File_Fixed Costs Removed through 202

Key	Station2	Year	Barge CAPP Basin	Barge NAPP Pitt 8	Barge NAPP OH MP100	Barge ILB Green River	Barge ILB OH River	Barge UP RM to Convent	Mt Vernon	Calvert City
Crystal River 4&5 2019	Crystal River 4&5	2019	$17.67	$22.29	$18.67	$20.46	$12.83	$51.92	$12.20	$13.55
Crystal River 4&5 2020	Crystal River 4&5	2020	$17.90	$22.58	$18.90	$20.72	$12.99	$53.46	$12.36	$13.73
Crystal River 4&5 2021	Crystal River 4&5	2021	$18.05	$22.77	$19.06	$20.22	$13.10	$54.56	$12.46	$13.84
Crystal River 4&5 2022	Crystal River 4&5	2022	$18.42	$23.24	$19.46	$20.15	$13.37	$55.48	$12.72	$14.13
Crystal River 4&5 2023	Crystal River 4&5	2023	$21.26	$26.18	$22.32	$23.03	$16.10	$56.57	$17.87	$19.31
Crystal River 4&5 2024	Crystal River 4&5	2024	$21.71	$26.74	$22.79	$23.52	$16.44	$57.74	$18.25	$19.72
Crystal River 4&5 2025	Crystal River 4&5	2025	$28.06	$33.19	$29.16	$29.90	$22.67	$64.83	$30.40	$31.90
Crystal River 4&5 2026	Crystal River 4&5	2026	$28.51	$33.77	$29.64	$30.40	$23.00	$66.03	$30.69	$32.23
Crystal River 4&5 2027	Crystal River 4&5	2027	$29.51	$34.91	$30.67	$31.45	$23.85	$67.64	$31.98	$33.56
Crystal River 4&5 2028	Crystal River 4&5	2028	$30.27	$35.82	$31.46	$32.26	$24.45	$69.00	$32.74	$34.36
Crystal River 4&5 2029	Crystal River 4&5	2029	$31.05	$36.76	$32.28	$33.10	$25.07	$70.38	$33.52	$35.18
Crystal River 4&5 2030	Crystal River 4&5	2030	$31.80	$37.66	$33.06	$33.90	$25.67	$71.78	$34.28	$35.99
Crystal River 4&5 2031	Crystal River 4&5	2031	$39.14	$45.12	$40.43	$41.29	$32.88	$79.90	$48.34	$50.09
Crystal River 4&5 2032	Crystal River 4&5	2032	$39.99	$46.10	$41.30	$42.18	$33.60	$81.55	$49.42	$51.20
Crystal River 4&5 2033	Crystal River 4&5	2033	$40.79	$47.03	$42.13	$43.03	$34.27	$83.16	$50.38	$52.20
Crystal River 4&5 2034	Crystal River 4&5	2034	$41.61	$47.97	$42.98	$43.90	$34.95	$84.79	$51.35	$53.21
Crystal River 4&5 2035	Crystal River 4&5	2035	$42.52	$49.02	$43.92	$44.85	$35.72	$86.55	$52.50	$54.40
Crystal River 4&5 2036	Crystal River 4&5	2036	$43.36	$50.00	$44.79	$45.75	$36.42	$88.25	$53.51	$55.45
Crystal River 4&5 2037	Crystal River 4&5	2037	$44.24	$51.01	$45.70	$46.67	$37.15	$89.98	$54.55	$56.53
Crystal River 4&5 2038	Crystal River 4&5	2038	$45.22	$52.14	$46.70	$47.70	$37.97	$91.84	$55.78	$57.80
Crystal River 4&5 2039	Crystal River 4&5	2039	$46.13	$53.20	$47.65	$48.67	$38.73	$93.64	$56.86	$58.93
Crystal River 4&5 2040	Crystal River 4&5	2040	$47.06	$54.28	$48.61	$49.65	$39.50	$95.49	$57.97	$60.08
Crystal River 4&5 2041	Crystal River 4&5	2041	$47.93	$55.25	$49.50	$50.56	$40.25	$97.46	$59.16	$61.30
Crystal River 4&5 2042	Crystal River 4&5	2042	$48.91	$56.40	$50.52	$51.60	$41.07	$99.37	$60.32	$62.50
Crystal River 4&5 2043	Crystal River 4&5	2043	$49.92	$57.57	$51.56	$52.66	$41.90	$101.33	$61.50	$63.74
Crystal River 4&5 2044	Crystal River 4&5	2044	$50.85	$58.63	$52.53	$53.65	$42.71	$103.42	$62.77	$65.04
Crystal River 4&5 2045	Crystal River 4&5	2045	$51.93	$59.88	$53.64	$54.79	$43.61	$105.49	$64.07	$66.39
Crystal River 4&5 2046	Crystal River 4&5	2046	$52.84	$60.91	$54.58	$55.74	$44.39	$107.60	$65.26	$67.62
Crystal River 4&5 2047	Crystal River 4&5	2047	$53.95	$62.20	$55.73	$56.92	$45.32	$109.75	$66.61	$69.01
Crystal River 4&5 2048	Crystal River 4&5	2048	$55.09	$63.52	$56.90	$58.12	$46.27	$111.95	$67.98	$70.44
Crystal River 4&5 2049	Crystal River 4&5	2049	$56.04	$64.60	$57.88	$59.12	$47.08	$114.19	$69.24	$71.73
Crystal River 4&5 2050	Crystal River 4&5	2050	$57.22	$65.97	$59.10	$60.36	$48.07	$116.47	$70.66	$73.21

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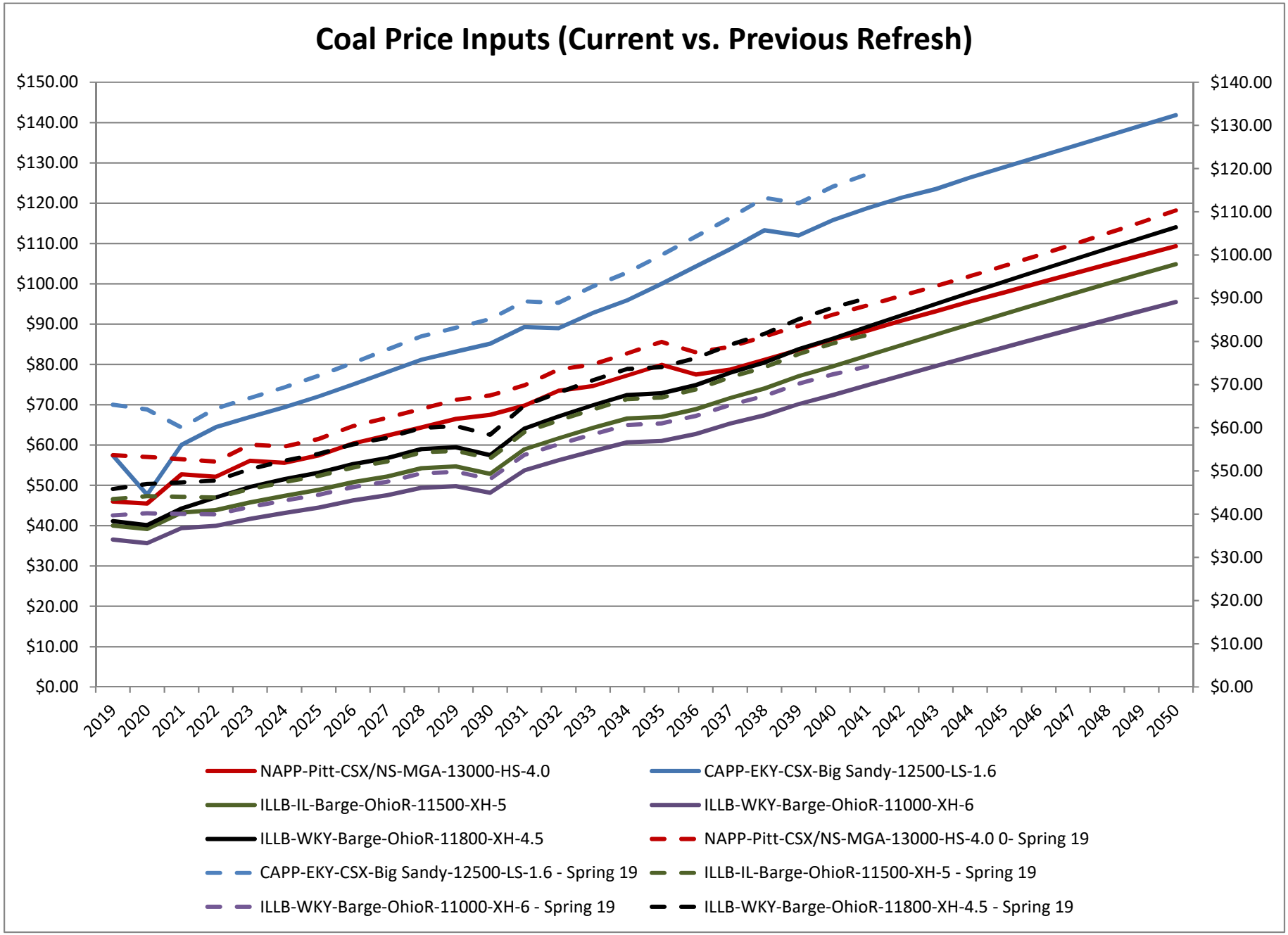
Rail Assumptions

1) CSX CAPP, NAPP, ILB and Western PRB/RM rates updated based on CSX indicitive bid received 8/2019
2) CSX West Kentucky equals CSX indicitive bid received 8/2019 for Cardinal 9, KY
3) CSX Galatia rate equals CSX indicitive bid received 8/2019 for White Oak
4) CSX Sullivan rate equals average CSX indicitive bid for ILB excluding Cardinal 9, KY received 8/2019
9) CSX UP (RM) equals CSX indicitive bid received 8/2019 including BSNF piece
10) CSX PRB equals CSX indicitive bid received 8/2019 including BSNF piece
11) Delivery of ILB 11,000 6# would typically be out of Central IL. ILB 11,000 6# transportation selection of CSX Sullivan based off of Peabody Bear Run 2017 Fall Term RFP offer. However, Station can not currently do a rail direct move as there is no on-site blending capabilities which would be needed to meet SO2 constraints

Barge Assumptions

12) Barge UP RM to Convent rate is the current UP agreement through 9/18 escalated at 5% (with Fuel Surcharge calculations based on COB 9/12/19 WTI fuel pricing), plus the current rates for the Convent Terminal fees which expired 12/31/18 escalated at 2% and Gulf Barge rates through 12/18 escalating 2% annually starting Jan 2025 through 2050.
13) Delivery of 11,800 4.5# coals would typically be off the Green River. Currently have a contract delivering off the Ohio.
14) ILB 11,000 6# transportation selection of OH River based off of Peabody bids going through Cora Terminal
15) Fixed cross-gulf costs excluded from transportation rates through FOF study period, Fees for one cross-gulf barge added 1/1/25. Second cross-gulf barge added 1/1/31. Variable cost to mid-stream coal from the river to the gulf is included starting 1/1/23 and is based off the current AT rate escalated at 2%. Mirrors current FOF assumptions.

Current FOF Gulf Barge assumptions: Margo Dale terminated 12/31/20, Winna Wilson assumed in-service through 12/31/23


Coal Price Inputs (Current vs. Previous Refresh)
$150.00
$140.00
$130.00
$120.00
$110.00
$100.00
$90.00
$80.00
$70.00
$60.00
$50.00
$40.00
$30.00
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$0.00
$140.00
$130.00
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NAPP-Pitt-CSX/NS-MGA-13000-HS-4.0
CAPP-EKY-CSX-Big Sandy-12500-LS-1.6
ILLB-IL-Barge-OhioR-11500-XH-5
ILLB-WKY-Barge-OhioR-11000-XH-6
ILLB-WKY-Barge-OhioR-11800-XH-4.5
NAPP-Pitt-CSX/NS-MGA-13000-HS-4.0 0- Spring 19
CAPP-EKY-CSX-Big Sandy-12500-LS-1.6 - Spring 19
ILLB-IL-Barge-OhioR-11500-XH-5 - Spring 19
ILLB-WKY-Barge-OhioR-11000-XH-6 - Spring 19
ILLB-WKY-Barge-OhioR-11800-XH-4.5 - Spring 19

Florida- Spring 2019 IRP Refresh Update - Coal No Carbon

CERA Fundamental Price Forecast*

Source File: Fuel-Forecast_Spring_2019_IHS_03292019 Source Tab: Coal Spring 2019

From: Andrew James via e-mail on 3/29/2019 at 12:13 p.m

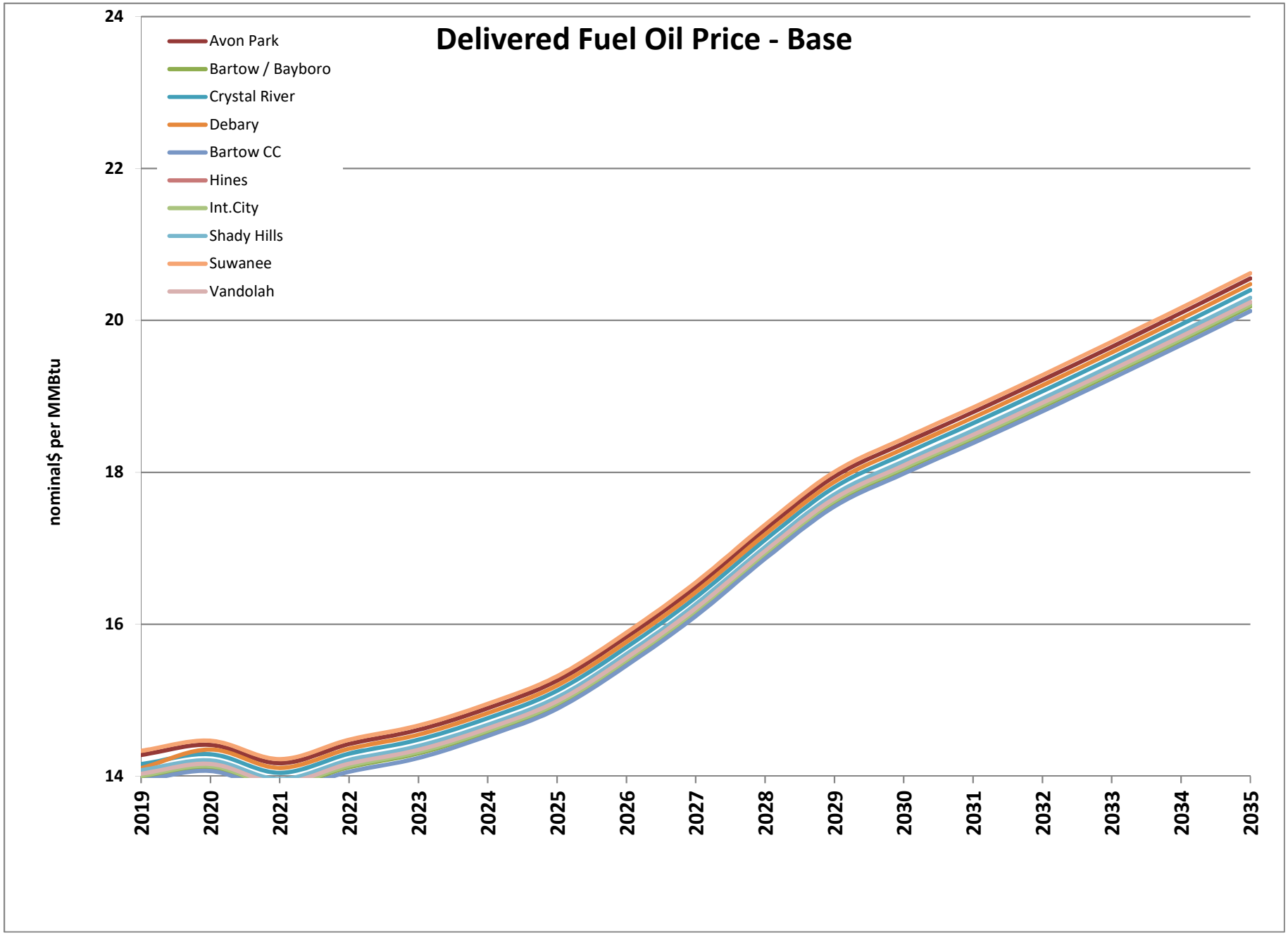
* Internal escalation rate of 2.5% applied starting in 2041 due to escalation rate error in HIS supplied market update (per email from Mike Quinto received 4/25/19)

Updated: 4/29/2019 Tiffany Weir

Basin	Coal Type	FOB Point	Btu/lb	#SO2/MMBtu	%Ash	Avg Hg ppm (dry)	Chlorine % AR	INDEX	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049	2050
								Inflator 2018 = 1.0>>>	1.000	1.020	1.047	1.073	1.095	1.117	1.139	1.161	1.184	1.207	1.231	1.256	1.281	1.307	1.334	1.360	1.388	1.416	1.444	1.473	1.502	1.531	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500	2.500
NAPP	Pittsburgh Seam	Rail	13,000	4.0	8.0	0.122	0.10%	NAPP-Pitt-CSX/NS-MGA-13000-HS-4.0 0- Spring 19	$53.67	$53.25	$52.75	$52.16	$56.11	$55.63	$57.44	$60.38	$62.33	$64.36	$66.48	$67.50	$69.81	$73.47	$74.67	$77.25	$79.90	$77.50	$78.72	$81.11	$83.60	$86.18	$88.34	$90.54	$92.81	$95.13	$97.51	$99.94	$102.44	$105.00	$107.63	$110.32
NAPP	Pittsburgh Seam	Barge	13,000	4.0	8.0	0.122	0.10%	NAPP-Pitt-Barge-MonR-13000-HS-4.0 - Spring 19	$53.67	$53.25	$52.75	$52.16	$56.11	$55.63	$57.44	$60.38	$62.33	$64.36	$66.48	$67.50	$69.81	$73.47	$74.67	$77.25	$79.90	$77.50	$78.72	$81.11	$83.60	$86.18	$88.34	$90.54	$92.81	$95.13	$97.51	$99.94	$102.44	$105.00	$107.63	$110.32
CAPP	Low-Sulfur	Rail	12,500	1.6	10.0	0.110	0.10%	CAPP-EKY-CSX-Big Sandy-12500-LS-1.6 - Spring 19	$65.33	$64.27	$60.06	$64.45	$66.93	$69.35	$72.08	$75.06	$78.13	$81.19	$83.17	$85.13	$89.25	$88.98	$92.77	$95.94	$100.02	$104.28	$108.60	$113.26	$111.99	$115.83	$118.73	$121.69	$124.74	$127.85	$131.05	$134.33	$137.69	$141.13	$144.66	$148.27
CAPP	Low-Sulfur	Barge	12,500	1.6	10.0	0.110	0.10%	CAPP-EKY-Barge-BSR-12000-LS-1.6 - Spring 19	$65.33	$64.27	$60.06	$64.45	$66.93	$69.35	$72.08	$75.06	$78.13	$81.19	$83.17	$85.13	$89.25	$88.98	$92.77	$95.94	$100.02	$104.28	$108.60	$113.26	$111.99	$115.83	$118.73	$121.69	$124.74	$127.85	$131.05	$134.33	$137.69	$141.13	$144.66	$148.27
ILB	Illinois	Rail	11,500	5.0	10.0	0.102	0.30%	ILLB-IL-Rail-South IL-11500-VH-5 - Spring 19	$43.48	$44.19	$44.01	$43.87	$45.79	$47.39	$48.88	$50.82	$52.20	$54.28	$54.68	$52.87	$58.97	$61.71	$64.27	$66.62	$67.00	$68.89	$71.70	$74.01	$77.07	$79.50	$81.49	$83.53	$85.62	$87.76	$89.95	$92.20	$94.51	$96.87	$99.29	$101.77
ILB	Illinois	Barge	11,500	5.0	10.0	0.102	0.15%	ILLB-IL-Barge-OhioR-11500-VH-5 - Spring 19	$43.48	$44.19	$44.01	$43.87	$45.79	$47.39	$48.88	$50.82	$52.20	$54.28	$54.68	$52.87	$58.97	$61.71	$64.27	$66.62	$67.00	$68.89	$71.70	$74.01	$77.07	$79.50	$81.49	$83.53	$85.62	$87.76	$89.95	$92.20	$94.51	$96.87	$99.29	$101.77
ILB	Illinois	Rail	11,500	5.0	10.0	0.102	0.12%	ILLB-IN-Rail-Sullivan-11500-VH-5 - Spring 19	$43.48	$44.19	$44.01	$43.87	$45.79	$47.39	$48.88	$50.82	$52.20	$54.28	$54.68	$52.87	$58.97	$61.71	$64.27	$66.62	$67.00	$68.89	$71.70	$74.01	$77.07	$79.50	$81.49	$83.53	$85.62	$87.76	$89.95	$92.20	$94.51	$96.87	$99.29	$101.77
ILB	Illinois	Barge	11,000	6.0	10.0	0.102	0.10%	ILLB-WKY-Barge-OhioR-11000-XH-6 - Spring 19	$39.73	$40.24	$40.08	$39.95	$41.69	$43.16	$44.51	$46.28	$47.53	$49.43	$49.79	$48.15	$53.70	$56.19	$58.53	$60.66	$61.01	$62.73	$65.29	$67.39	$70.18	$72.40	$74.21	$76.06	$77.97	$79.91	$81.91	$83.96	$86.06	$88.21	$90.42	$92.68
ILB	Illinois	Rail	11,000	6.0	10.0	0.102	0.15%	ILLB-IN-Rail-Sullivan-11000-XH-6 - Spring 19	$39.73	$40.24	$40.08	$39.95	$41.69	$43.16	$44.51	$46.28	$47.53	$49.43	$49.79	$48.15	$53.70	$56.19	$58.53	$60.66	$61.01	$62.73	$65.29	$67.39	$70.18	$72.40	$74.21	$76.06	$77.97	$79.91	$81.91	$83.96	$86.06	$88.21	$90.42	$92.68
ILB	Illinois	Rail	11,000	6.0	10.0	0.102	0.15%	ILLB-IL-Rail-Central IL-11000-XH-6 - Spring 19	$39.73	$40.24	$40.08	$39.95	$41.69	$43.16	$44.51	$46.28	$47.53	$49.43	$49.79	$48.15	$53.70	$56.19	$58.53	$60.66	$61.01	$62.73	$65.29	$67.39	$70.18	$72.40	$74.21	$76.06	$77.97	$79.91	$81.91	$83.96	$86.06	$88.21	$90.42	$92.68
ILB	Illinois	Barge	11,800	4.5	10.0	0.102	0.20%	ILLB-WKY-Barge-Green River-11800-XH-4.5 - Spring 19	$45.83	$46.98	$47.36	$47.77	$50.43	$52.36	$54.00	$56.15	$57.67	$59.97	$60.41	$58.42	$65.15	$68.18	$71.01	$73.60	$74.02	$76.11	$79.22	$81.77	$85.15	$87.84	$90.04	$92.29	$94.59	$96.96	$99.38	$101.87	$104.41	$107.02	$109.70	$112.44
ILB	Illinois	Barge	11,800	4.5	10.0	0.102	0.20%	ILLB-WKY-Barge-OhioR-11800-XH-4.5 - Spring 19	$45.83	$46.98	$47.36	$47.77	$50.43	$52.36	$54.00	$56.15	$57.67	$59.97	$60.41	$58.42	$65.15	$68.18	$71.01	$73.60	$74.02	$76.11	$79.22	$81.77	$85.15	$87.84	$90.04	$92.29	$94.59	$96.96	$99.38	$101.87	$104.41	$107.02	$109.70	$112.44
ILB	Low Chlorine	Barge	11,500	5.2	10.0	0.102	0.08%	ILLB-WKY-Barge-OhioR-11500-VH-5.2-LC-.8 - Spring 19	$45.83	$46.98	$47.36	$47.77	$50.43	$52.36	$54.00	$56.15	$57.67	$59.97	$60.41	$58.42	$65.15	$68.18	$71.01	$73.60	$74.02	$76.11	$79.22	$81.77	$85.15	$87.84	$90.04	$92.29	$94.59	$96.96	$99.38	$101.87	$104.41	$107.02	$109.70	$112.44
ILB	Low Chlorine	Rail	11,500	5.2	10.0	0.102	0.08%	ILLB-WKY-CSX-WKY-11500-VH-5.2-LC-.8 - Spring 19	$45.83	$46.98	$47.36	$47.77	$50.43	$52.36	$54.00	$56.15	$57.67	$59.97	$60.41	$58.42	$65.15	$68.18	$71.01	$73.60	$74.02	$76.11	$79.22	$81.77	$85.15	$87.84	$90.04	$92.29	$94.59	$96.96	$99.38	$101.87	$104.41	$107.02	$109.70	$112.44
PRB	High-Btu Gillette	Rail	8,800	0.8	5.0	0.060	0.01%	PRB-WY-BN/UP-Gillette-8800-CS-0.8 - Spring 19	$12.20	$12.19	$12.25	$13.64	$14.21	$14.58	$15.10	$15.72	$16.36	$17.04	$17.74	$18.49	$19.28	$20.09	$20.95	$21.85	$22.78	$23.27	$24.27	$25.31	$26.40	$27.53	$28.22	$28.93	$29.65	$30.39	$31.15	$31.93	$32.73	$33.55	$34.38	$35.24
RM	Rockies	Rail	11,700	0.8	8.0	0.040	0.02%	Rockies-CO-UP-North Fork-11700-CS-.8 - Spring 19	$33.38	$33.64	$35.71	$36.10	$38.56	$40.08	$41.66	$41.49	$43.09	$44.76	$46.52	$47.52	$49.43	$51.42	$50.25	$52.05	$54.14	$56.33	$54.14	$56.34	$58.64	$61.04	$62.56	$64.13	$65.73	$67.37	$69.06	$70.79	$72.56	$74.37	$76.23	$78.13
RM	Rockies	Barge	11,700	0.8	8.0	0.040	0.02%	Rockies-CO-UP-North Fork-11700-CS-.8 - Spring 19	$33.38	$33.64	$35.71	$36.10	$38.56	$40.08	$41.66	$41.49	$43.09	$44.76	$46.52	$47.52	$49.43	$51.42	$50.25	$52.05	$54.14	$56.33	$54.14	$56.34	$58.64	$61.04	$62.56	$64.13	$65.73	$67.37	$69.06	$70.79	$72.56	$74.37	$76.23	$78.13

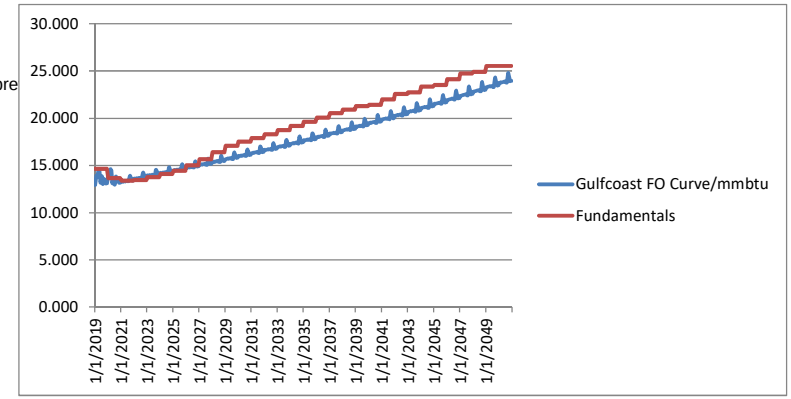
Price Forecast Received from Andrew James via e-mail on 3/29/19 at 12:13 p.m. (Nominal $/ton) **

Reviewed transportation delivery locations with Shawn Shultz, Manager Coal Transportatior


Delivered Fuel Oil Price - Base
Avon Park
Bartow / Bayboro
Crystal River
Debary
Bartow CC
Hines
Int.City
Shady Hills
Suwanee
Vandolah
nominal$ per MMBtu
24
22
20
18
16
14
2019
2020
2021
2022
2023
2024
2025
2026
2027
2028
2029
2030
2031
2032
2033
2034
2035

	Gulfcoast FO Curve/mmbtu	nominal$ Fundamentals	Gulfcoast FO Curve/gal			TCM	Fundamentals
1/1/2019	12.928	14.62	1.7840	2019	2019	13.53	14.62
2/1/2019	13.870	14.62	1.9140	2019	2020	13.65	13.66
3/1/2019	13.783	14.62	1.9020	2019	2021	13.39	13.38
4/1/2019	14.326	14.62	1.9770	2019	2022	13.72	13.44
5/1/2019	14.290	14.62	1.9720	2019	2023	14.03	13.75
6/1/2019	13.167	14.62	1.8170	2019	2024	14.31	14.08
7/1/2019	13.862	14.62	1.9130	2019	2025	14.60	14.43
8/1/2019	13.043	14.62	1.8000	2019	2026	14.89	15.00
9/1/2019	13.580	14.62	1.8740	2019	2027	15.19	15.64
10/1/2019	13.312	14.62	1.8370	2019	2028	15.49	16.39
11/1/2019	13.077	14.62	1.8046	2019	2029	15.80	17.07
12/1/2019	13.089	14.62	1.8063	2019	2030	16.12	17.50
1/1/2020	13.804	13.66	1.9049	2020	2031	16.44	17.89
2/1/2020	14.092	13.66	1.9448	2020	2032	16.77	18.30
3/1/2020	14.595	13.66	2.0142	2020	2033	17.10	18.73
4/1/2020	14.424	13.66	1.9904	2020	2034	17.44	19.16
5/1/2020	13.106	13.66	1.8086	2020	2035	17.79	19.60
6/1/2020	13.602	13.66	1.8770	2020	2036	18.15	20.05
7/1/2020	12.983	13.66	1.7916	2020	2037	18.51	20.52
8/1/2020	13.819	13.66	1.9070	2020	2038	18.88	20.91
9/1/2020	13.636	13.66	1.8818	2020	2039	19.26	21.29
10/1/2020	13.381	13.66	1.8466	2020	2040	19.64	21.42
11/1/2020	13.157	13.66	1.8156	2020	2041	20.04	21.98
12/1/2020	13.181	13.66	1.8189	2020	2042	20.44	22.55
1/1/2021	13.244	13.38	1.8277	2021	2043	20.85	22.74
2/1/2021	13.262	13.38	1.8301	2021	2044	21.26	23.33
3/1/2021	13.279	13.38	1.8325	2021	2045	21.69	23.52
4/1/2021	13.297	13.38	1.8349	2021	2046	22.12	24.12
5/1/2021	13.314	13.38	1.8374	2021	2047	22.57	24.73
6/1/2021	13.332	13.38	1.8398	2021	2048	23.02	24.91
7/1/2021	13.332	13.38	1.8398	2021	2049	23.48	25.53
8/1/2021	13.332	13.38	1.8398	2021	2050	23.95	25.53
9/1/2021	13.889	13.38	1.9166	2021			
10/1/2021	13.629	13.38	1.8807	2021			
11/1/2021	13.400	13.38	1.8492	2021			
12/1/2021	13.424	13.38	1.8526	2021			
1/1/2022	13.570	13.44	1.8727	2022			
2/1/2022	13.588	13.44	1.8752	2022			
3/1/2022	13.606	13.44	1.8777	2022			
4/1/2022	13.624	13.44	1.8801	2022			
5/1/2022	13.642	13.44	1.8826	2022			
6/1/2022	13.660	13.44	1.8851	2022			
7/1/2022	13.660	13.44	1.8850	2022			
8/1/2022	13.659	13.44	1.8850	2022			
9/1/2022	14.230	13.44	1.9637	2022			
10/1/2022	13.963	13.44	1.9269	2022			
11/1/2022	13.729	13.44	1.8946	2022			
12/1/2022	13.754	13.44	1.8981	2022			
1/1/2023	13.904	13.75	1.9187	2023			
2/1/2023	13.922	13.75	1.9212	2023			
3/1/2023	13.940	13.75	1.9237	2023			
4/1/2023	13.958	13.75	1.9262	2023			
5/1/2023	13.976	13.75	1.9287	2023			
6/1/2023	13.995	13.75	1.9313	2023			
7/1/2023	13.933	13.75	1.9312	2023			
8/1/2023	13.933	13.75	1.9312	2023			
9/1/2023	14.515	13.75	2.0118	2023			
10/1/2023	14.243	13.75	1.9742	2023			
11/1/2023	14.004	13.75	1.9410	2023			
12/1/2023	14.029	13.75	1.9446	2023			
1/1/2024	14.182	14.08	1.9657	2024			
2/1/2024	14.200	14.08	1.9683	2024			
3/1/2024	14.219	14.08	1.9709	2024			
4/1/2024	14.237	14.08	1.9734	2024			

Historical Gulf Coast FO
COB 10/16/2019
Grow at 1.5% of same month pre
Fall 2019 IHS Fundamentals
NYMEX - Close 4/15/19



5/1/2024	14.256	14.08	1.9760	2024
6/1/2024	14.274	14.08	1.9786	2024
7/1/2024	14.211	14.08	1.9785	2024
8/1/2024	14.211	14.08	1.9784	2024
9/1/2024	14.805	14.08	2.0610	2024
10/1/2024	14.528	14.08	2.0224	2024
11/1/2024	14.284	14.08	1.9884	2024
12/1/2024	14.310	14.08	1.9919	2024
1/1/2025	14.465	14.43	2.0135	2025
2/1/2025	14.484	14.43	2.0161	2025
3/1/2025	14.503	14.43	2.0187	2025
4/1/2025	14.522	14.43	2.0213	2025
5/1/2025	14.541	14.43	2.0239	2025
6/1/2025	14.560	14.43	2.0265	2025
7/1/2025	14.496	14.43	2.0271	2025
8/1/2025	14.496	14.43	2.0278	2025
9/1/2025	15.101	14.43	2.1133	2025
10/1/2025	14.818	14.43	2.0744	2025
11/1/2025	14.569	14.43	2.0403	2025
12/1/2025	14.596	14.43	2.0447	2025
1/1/2026	14.755	15.00	2.0677	2026
2/1/2026	14.774	15.00	2.0711	2026
3/1/2026	14.793	15.00	2.0745	2026
4/1/2026	14.813	15.00	2.0780	2026
5/1/2026	14.832	15.00	2.0814	2026
6/1/2026	14.851	15.00	2.0569	2026
7/1/2026	14.786	15.00	2.0576	2026
8/1/2026	14.785	15.00	2.0582	2026
9/1/2026	15.403	15.00	2.1449	2026
10/1/2026	15.114	15.00	2.1055	2026
11/1/2026	14.861	15.00	2.0709	2026
12/1/2026	14.888	15.00	2.0754	2026
1/1/2027	15.050	15.64	2.0987	2027
2/1/2027	15.069	15.64	2.1022	2027
3/1/2027	15.089	15.64	2.1056	2027
4/1/2027	15.109	15.64	2.1091	2027
5/1/2027	15.128	15.64	2.1126	2027
6/1/2027	15.148	15.64	2.0877	2027
7/1/2027	15.081	15.64	2.0884	2027
8/1/2027	15.081	15.64	2.0891	2027
9/1/2027	15.711	15.64	2.1771	2027
10/1/2027	15.417	15.64	2.1371	2027
11/1/2027	15.158	15.64	2.1020	2027
12/1/2027	15.186	15.64	2.1065	2027
1/1/2028	15.351	16.39	2.1302	2028
2/1/2028	15.371	16.39	2.1337	2028
3/1/2028	15.391	16.39	2.1372	2028
4/1/2028	15.411	16.39	2.1408	2028
5/1/2028	15.431	16.39	2.1443	2028
6/1/2028	15.451	16.39	2.1190	2028
7/1/2028	15.383	16.39	2.1197	2028
8/1/2028	15.383	16.39	2.1205	2028
9/1/2028	16.025	16.39	2.2098	2028
10/1/2028	15.725	16.39	2.1691	2028
11/1/2028	15.461	16.39	2.1335	2028
12/1/2028	15.489	16.39	2.1381	2028
1/1/2029	15.658	17.07	2.1621	2029
2/1/2029	15.678	17.07	2.1657	2029
3/1/2029	15.699	17.07	2.1693	2029

4/1/2029	15.719	17.07	2.1729	2029
5/1/2029	15.740	17.07	2.1765	2029
6/1/2029	15.760	17.07	2.1508	2029
7/1/2029	15.691	17.07	2.1515	2029
8/1/2029	15.690	17.07	2.1523	2029
9/1/2029	16.346	17.07	2.2429	2029
10/1/2029	16.040	17.07	2.2017	2029
11/1/2029	15.770	17.07	2.1655	2029
12/1/2029	15.799	17.07	2.1702	2029
1/1/2030	15.971	17.50	2.1945	2030
2/1/2030	15.992	17.50	2.1982	2030
3/1/2030	16.013	17.50	2.2018	2030
4/1/2030	16.034	17.50	2.2055	2030
5/1/2030	16.054	17.50	2.2091	2030
6/1/2030	16.075	17.50	2.1831	2030
7/1/2030	16.004	17.50	2.1838	2030
8/1/2030	16.004	17.50	2.1845	2030
9/1/2030	16.673	17.50	2.2766	2030
10/1/2030	16.360	17.50	2.2347	2030
11/1/2030	16.086	17.50	2.1980	2030
12/1/2030	16.115	17.50	2.2027	2030
1/1/2031	16.290	17.89	2.2275	2031
2/1/2031	16.312	17.89	2.2312	2031
3/1/2031	16.333	17.89	2.2348	2031
4/1/2031	16.354	17.89	2.2385	2031
5/1/2031	16.376	17.89	2.2422	2031
6/1/2031	16.397	17.89	2.2158	2031
7/1/2031	16.325	17.89	2.2166	2031
8/1/2031	16.324	17.89	2.2173	2031
9/1/2031	17.006	17.89	2.3107	2031
10/1/2031	16.688	17.89	2.2682	2031
11/1/2031	16.408	17.89	2.2310	2031
12/1/2031	16.437	17.89	2.2358	2031
1/1/2032	16.616	18.30	2.2609	2032
2/1/2032	16.638	18.30	2.2646	2032
3/1/2032	16.660	18.30	2.2684	2032
4/1/2032	16.681	18.30	2.2721	2032
5/1/2032	16.703	18.30	2.2759	2032
6/1/2032	16.725	18.30	2.2491	2032
7/1/2032	16.651	18.30	2.2498	2032
8/1/2032	16.651	18.30	2.2506	2032
9/1/2032	17.346	18.30	2.3454	2032
10/1/2032	17.021	18.30	2.3023	2032
11/1/2032	16.736	18.30	2.2644	2032
12/1/2032	16.766	18.30	2.2693	2032
1/1/2033	16.948	18.73	2.2948	2033
2/1/2033	16.971	18.73	2.2986	2033
3/1/2033	16.993	18.73	2.3024	2033
4/1/2033	17.015	18.73	2.3062	2033
5/1/2033	17.037	18.73	2.3100	2033
6/1/2033	17.059	18.73	2.2828	2033
7/1/2033	16.984	18.73	2.2836	2033
8/1/2033	16.984	18.73	2.2843	2033
9/1/2033	17.693	18.73	2.3806	2033
10/1/2033	17.362	18.73	2.3368	2033
11/1/2033	17.070	18.73	2.2984	2033
12/1/2033	17.101	18.73	2.3034	2033
1/1/2034	17.287	19.16	2.3292	2034
2/1/2034	17.310	19.16	2.3331	2034

3/1/2034	17.333	19.16	2.3369	2034
4/1/2034	17.355	19.16	2.3408	2034
5/1/2034	17.378	19.16	2.3447	2034
6/1/2034	17.400	19.16	2.3170	2034
7/1/2034	17.324	19.16	2.3178	2034
8/1/2034	17.323	19.16	2.3186	2034
9/1/2034	18.047	19.16	2.4163	2034
10/1/2034	17.709	19.16	2.3718	2034
11/1/2034	17.412	19.16	2.3329	2034
12/1/2034	17.443	19.16	2.3379	2034
1/1/2035	17.633	19.60	2.3641	2035
2/1/2035	17.656	19.60	2.3681	2035
3/1/2035	17.679	19.60	2.3720	2035
4/1/2035	17.702	19.60	2.3759	2035
5/1/2035	17.725	19.60	2.3798	2035
6/1/2035	17.748	19.60	2.3518	2035
7/1/2035	17.670	19.60	2.3526	2035
8/1/2035	17.670	19.60	2.3534	2035
9/1/2035	18.408	19.60	2.4525	2035
10/1/2035	18.063	19.60	2.4074	2035
11/1/2035	17.760	19.60	2.3679	2035
12/1/2035	17.792	19.60	2.3730	2035
1/1/2036	17.986	20.05	2.3996	2036
2/1/2036	18.009	20.05	2.4036	2036
3/1/2036	18.033	20.05	2.4076	2036
4/1/2036	18.056	20.05	2.4116	2036
5/1/2036	18.080	20.05	2.4155	2036
6/1/2036	18.103	20.05	2.3871	2036
7/1/2036	18.024	20.05	2.3879	2036
8/1/2036	18.023	20.05	2.3887	2036
9/1/2036	18.776	20.05	2.4893	2036
10/1/2036	18.424	20.05	2.4435	2036
11/1/2036	18.115	20.05	2.4034	2036
12/1/2036	18.148	20.05	2.4086	2036
1/1/2037	18.345	20.52	2.4356	2037
2/1/2037	18.369	20.52	2.4396	2037
3/1/2037	18.393	20.52	2.4437	2037
4/1/2037	18.418	20.52	2.4477	2037
5/1/2037	18.442	20.52	2.4518	2037
6/1/2037	18.466	20.52	2.4229	2037
7/1/2037	18.384	20.52	2.4237	2037
8/1/2037	18.384	20.52	2.4245	2037
9/1/2037	19.152	20.52	2.5266	2037
10/1/2037	18.793	20.52	2.4802	2037
11/1/2037	18.478	20.52	2.4394	2037
12/1/2037	18.511	20.52	2.4447	2037
1/1/2038	18.712	20.91	2.4721	2038
2/1/2038	18.737	20.91	2.4762	2038
3/1/2038	18.761	20.91	2.4803	2038
4/1/2038	18.786	20.91	2.4844	2038
5/1/2038	18.810	20.91	2.4885	2038
6/1/2038	18.835	20.91	2.4592	2038
7/1/2038	18.752	20.91	2.4600	2038
8/1/2038	18.751	20.91	2.4609	2038
9/1/2038	19.535	20.91	2.5645	2038
10/1/2038	19.169	20.91	2.5174	2038
11/1/2038	18.847	20.91	2.4760	2038
12/1/2038	18.881	20.91	2.4814	2038
1/1/2039	19.087	21.29	2.5092	2039

2/1/2039	19.112	21.29	2.5134	2039
3/1/2039	19.137	21.29	2.5175	2039
4/1/2039	19.162	21.29	2.5217	2039
5/1/2039	19.187	21.29	2.5259	2039
6/1/2039	19.212	21.29	2.4961	2039
7/1/2039	19.127	21.29	2.4969	2039
8/1/2039	19.127	21.29	2.4978	2039
9/1/2039	19.925	21.29	2.6030	2039
10/1/2039	19.552	21.29	2.5551	2039
11/1/2039	19.224	21.29	2.5132	2039
12/1/2039	19.259	21.29	2.5186	2039
1/1/2040	19.468	21.42	2.5469	2040
2/1/2040	19.494	21.42	2.5511	2040
3/1/2040	19.519	21.42	2.5553	2040
4/1/2040	19.545	21.42	2.5595	2040
5/1/2040	19.570	21.42	2.5638	2040
6/1/2040	19.596	21.42	2.5336	2040
7/1/2040	19.509	21.42	2.5344	2040
8/1/2040	19.509	21.42	2.5352	2040
9/1/2040	20.324	21.42	2.6421	2040
10/1/2040	19.943	21.42	2.5935	2040
11/1/2040	19.609	21.42	2.5509	2040
12/1/2040	19.644	21.42	2.5564	2040
1/1/2041	19.858	21.98	2.5851	2041
2/1/2041	19.884	21.98	2.5893	2041
3/1/2041	19.910	21.98	2.5936	2041
4/1/2041	19.936	21.98	2.5979	2041
5/1/2041	19.962	21.98	2.6022	2041
6/1/2041	19.988	21.98	2.5716	2041
7/1/2041	19.900	21.98	2.5724	2041
8/1/2041	19.899	21.98	2.5733	2041
9/1/2041	20.730	21.98	2.6817	2041
10/1/2041	20.342	21.98	2.6324	2041
11/1/2041	20.001	21.98	2.5891	2041
12/1/2041	20.037	21.98	2.5947	2041
1/1/2042	20.255	22.55	2.6238	2042
2/1/2042	20.281	22.55	2.6282	2042
3/1/2042	20.308	22.55	2.6325	2042
4/1/2042	20.334	22.55	2.6369	2042
5/1/2042	20.361	22.55	2.6413	2042
6/1/2042	20.387	22.55	2.6101	2042
7/1/2042	20.298	22.55	2.6110	2042
8/1/2042	20.297	22.55	2.6119	2042
9/1/2042	21.145	22.55	2.7219	2042
10/1/2042	20.749	22.55	2.6719	2042
11/1/2042	20.401	22.55	2.6280	2042
12/1/2042	20.438	22.55	2.6336	2042
1/1/2043	20.660	22.74	2.6632	2043
2/1/2043	20.687	22.74	2.6676	2043
3/1/2043	20.714	22.74	2.6720	2043
4/1/2043	20.741	22.74	2.6764	2043
5/1/2043	20.768	22.74	2.6809	2043
6/1/2043	20.795	22.74	2.6493	2043
7/1/2043	20.703	22.74	2.6502	2043
8/1/2043	20.703	22.74	2.6511	2043
9/1/2043	21.568	22.74	2.7627	2043
10/1/2043	21.164	22.74	2.7119	2043
11/1/2043	20.809	22.74	2.6674	2043
12/1/2043	20.847	22.74	2.6731	2043

1/1/2044	21.073	23.33	2.7031	2044
2/1/2044	21.101	23.33	2.7076	2044
3/1/2044	21.128	23.33	2.7121	2044
4/1/2044	21.156	23.33	2.7166	2044
5/1/2044	21.184	23.33	2.7211	2044
6/1/2044	21.211	23.33	2.6890	2044
7/1/2044	21.118	23.33	2.6899	2044
8/1/2044	21.117	23.33	2.6908	2044
9/1/2044	21.999	23.33	2.8042	2044
10/1/2044	21.587	23.33	2.7526	2044
11/1/2044	21.225	23.33	2.7074	2044
12/1/2044	21.264	23.33	2.7132	2044
1/1/2045	21.495	23.52	2.7437	2045
2/1/2045	21.523	23.52	2.7482	2045
3/1/2045	21.551	23.52	2.7528	2045
4/1/2045	21.579	23.52	2.7573	2045
5/1/2045	21.607	23.52	2.7619	2045
6/1/2045	21.635	23.52	2.7294	2045
7/1/2045	21.540	23.52	2.7303	2045
8/1/2045	21.540	23.52	2.7312	2045
9/1/2045	22.439	23.52	2.8462	2045
10/1/2045	22.019	23.52	2.7939	2045
11/1/2045	21.649	23.52	2.7480	2045
12/1/2045	21.689	23.52	2.7539	2045
1/1/2046	21.925	24.12	2.7848	2046
2/1/2046	21.953	24.12	2.7895	2046
3/1/2046	21.982	24.12	2.7941	2046
4/1/2046	22.011	24.12	2.7987	2046
5/1/2046	22.039	24.12	2.8033	2046
6/1/2046	22.068	24.12	2.7703	2046
7/1/2046	21.971	24.12	2.7712	2046
8/1/2046	21.970	24.12	2.7722	2046
9/1/2046	22.888	24.12	2.8889	2046
10/1/2046	22.459	24.12	2.8358	2046
11/1/2046	22.082	24.12	2.7892	2046
12/1/2046	22.123	24.12	2.7953	2046
1/1/2047	22.363	24.73	2.8266	2047
2/1/2047	22.392	24.73	2.8313	2047
3/1/2047	22.422	24.73	2.8360	2047
4/1/2047	22.451	24.73	2.8407	2047
5/1/2047	22.480	24.73	2.8454	2047
6/1/2047	22.509	24.73	2.8119	2047
7/1/2047	22.410	24.73	2.8128	2047
8/1/2047	22.410	24.73	2.8137	2047
9/1/2047	23.346	24.73	2.9323	2047
10/1/2047	22.908	24.73	2.8784	2047
11/1/2047	22.524	24.73	2.8310	2047
12/1/2047	22.565	24.73	2.8372	2047
1/1/2048	22.810	24.91	2.8690	2048
2/1/2048	22.840	24.91	2.8738	2048
3/1/2048	22.870	24.91	2.8785	2048
4/1/2048	22.900	24.91	2.8833	2048
5/1/2048	22.930	24.91	2.8881	2048
6/1/2048	22.960	24.91	2.8540	2048
7/1/2048	22.858	24.91	2.8550	2048
8/1/2048	22.858	24.91	2.8559	2048
9/1/2048	23.813	24.91	2.9763	2048
10/1/2048	23.367	24.91	2.9215	2048
11/1/2048	22.975	24.91	2.8735	2048

12/1/2048	23.016	24.91	2.8797	2048
1/1/2049	23.266	25.53	2.9121	2049
2/1/2049	23.297	25.53	2.9169	2049
3/1/2049	23.327	25.53	2.9217	2049
4/1/2049	23.358	25.53	2.9265	2049
5/1/2049	23.388	25.53	2.9314	2049
6/1/2049	23.419	25.53	2.8968	2049
7/1/2049	23.315	25.53	2.8978	2049
8/1/2049	23.315	25.53	2.8988	2049
9/1/2049	24.289	25.53	3.0209	2049
10/1/2049	23.834	25.53	2.9654	2049
11/1/2049	23.434	25.53	2.9166	2049
12/1/2049	23.477	25.53	2.9229	2049
1/1/2050	23.732	25.53	2.9557	2050
2/1/2050	23.763	25.53	2.9606	2050
3/1/2050	23.794	25.53	2.9655	2050
4/1/2050	23.825	25.53	2.9704	2050
5/1/2050	23.856	25.53	2.9753	2050
6/1/2050	23.887	25.53	2.9403	2050
7/1/2050	23.782	25.53	2.9413	2050
8/1/2050	23.781	25.53	2.9423	2050
9/1/2050	24.775	25.53	3.0662	2050
10/1/2050	24.311	25.53	3.0098	2050
11/1/2050	23.903	25.53	2.9604	2050
12/1/2050	23.946	25.53	2.9668	2050

Avon Park — PETROLEUM PRODUCT PRICE FORECAST DATA — PROSYM INPUT — ANNUAL AVERAGE

Date	Petroleum Product Price Forecast - Gulf Coast	TCM	Blend TCM/ Fundamental (%)	Blend TCM/ Fundamental ($)	Avon Park Transport ($/MMBtu)
1/1/2019	14.62	12.93	100%	12.93	0.752
2/1/2019	14.62	13.87	100%	13.87	0.752
3/1/2019	14.62	13.78	100%	13.78	0.752
4/1/2019	14.62	14.33	100%	14.33	0.752
5/1/2019	14.62	14.29	100%	14.29	0.752
6/1/2019	14.62	13.17	100%	13.17	0.752
7/1/2019	14.62	13.86	100%	13.86	0.752
8/1/2019	14.62	13.04	100%	13.04	0.752
9/1/2019	14.62	13.58	100%	13.58	0.752
10/1/2019	14.62	13.31	100%	13.31	0.752
11/1/2019	14.62	13.08	100%	13.08	0.752
12/1/2019	14.62	13.09	100%	13.09	0.752
1/1/2020	13.66	13.80	100%	13.80	0.763
2/1/2020	13.66	14.09	100%	14.09	0.763
3/1/2020	13.66	14.60	100%	14.60	0.763
4/1/2020	13.66	14.42	100%	14.42	0.763
5/1/2020	13.66	13.11	100%	13.11	0.763
6/1/2020	13.66	13.60	100%	13.60	0.763
7/1/2020	13.66	12.98	100%	12.98	0.763
8/1/2020	13.66	13.82	100%	13.82	0.763
9/1/2020	13.66	13.64	100%	13.64	0.763
10/1/2020	13.66	13.38	100%	13.38	0.763
11/1/2020	13.66	13.16	100%	13.16	0.763
12/1/2020	13.66	13.18	100%	13.18	0.763
1/1/2021	13.38	13.24	100%	13.24	0.775
2/1/2021	13.38	13.26	100%	13.26	0.775
3/1/2021	13.38	13.28	100%	13.28	0.775
4/1/2021	13.38	13.30	100%	13.30	0.775
5/1/2021	13.38	13.31	100%	13.31	0.775
6/1/2021	13.38	13.33	100%	13.33	0.775
7/1/2021	13.38	13.33	100%	13.33	0.775
8/1/2021	13.38	13.33	100%	13.33	0.775
9/1/2021	13.38	13.89	100%	13.89	0.775
10/1/2021	13.38	13.63	100%	13.63	0.775
11/1/2021	13.38	13.40	100%	13.40	0.775
12/1/2021	13.38	13.42	100%	13.42	0.775
1/1/2022	13.44	13.57	96%	13.57	0.787
2/1/2022	13.44	13.59	92%	13.58	0.787
3/1/2022	13.44	13.61	88%	13.59	0.787
4/1/2022	13.44	13.62	84%	13.60	0.787
5/1/2022	13.44	13.64	80%	13.60	0.787
6/1/2022	13.44	13.66	76%	13.61	0.787
7/1/2022	13.44	13.66	72%	13.60	0.787
8/1/2022	13.44	13.66	68%	13.59	0.787
9/1/2022	13.44	14.23	64%	13.95	0.787
10/1/2022	13.44	13.96	60%	13.76	0.787
11/1/2022	13.44	13.73	56%	13.60	0.787
12/1/2022	13.44	13.75	52%	13.60	0.787
1/1/2023	13.75	13.90	48%	13.82	0.798
2/1/2023	13.75	13.92	44%	13.83	0.798
3/1/2023	13.75	13.94	40%	13.83	0.798
4/1/2023	13.75	13.96	36%	13.82	0.798
5/1/2023	13.75	13.98	32%	13.82	0.798
6/1/2023	13.75	13.99	28%	13.82	0.798
7/1/2023	13.75	13.93	24%	13.79	0.798
8/1/2023	13.75	13.93	20%	13.79	0.798
9/1/2023	13.75	14.51	16%	13.87	0.798
10/1/2023	13.75	14.24	12%	13.81	0.798
11/1/2023	13.75	14.00	8%	13.77	0.798
12/1/2023	13.75	14.03	4%	13.76	0.798
1/1/2024	14.08	14.18	0%	14.08	0.810
2/1/2024	14.08	14.20	0%	14.08	0.810
3/1/2024	14.08	14.22	0%	14.08	0.810
4/1/2024	14.08	14.24	0%	14.08	0.810
5/1/2024	14.08	14.26	0%	14.08	0.810

Date	nomianl$/MMBtu
1/1/2019	13.68
2/1/2019	14.62
3/1/2019	14.53
4/1/2019	15.08
5/1/2019	15.04
6/1/2019	13.92
7/1/2019	14.61
8/1/2019	13.80
9/1/2019	14.33
10/1/2019	14.06
11/1/2019	13.83
12/1/2019	13.84
1/1/2020	14.57
2/1/2020	14.86
3/1/2020	15.36
4/1/2020	15.19
5/1/2020	13.87
6/1/2020	14.36
7/1/2020	13.75
8/1/2020	14.58
9/1/2020	14.40
10/1/2020	14.14
11/1/2020	13.92
12/1/2020	13.94
1/1/2021	14.02
2/1/2021	14.04
3/1/2021	14.05
4/1/2021	14.07
5/1/2021	14.09
6/1/2021	14.11
7/1/2021	14.11
8/1/2021	14.11
9/1/2021	14.66
10/1/2021	14.40
11/1/2021	14.17
12/1/2021	14.20
1/1/2022	14.35
2/1/2022	14.36
3/1/2022	14.37
4/1/2022	14.38
5/1/2022	14.39
6/1/2022	14.39
7/1/2022	14.39
8/1/2022	14.38
9/1/2022	14.73
10/1/2022	14.54
11/1/2022	14.39
12/1/2022	14.39
1/1/2023	14.62
2/1/2023	14.62
3/1/2023	14.62
4/1/2023	14.62
5/1/2023	14.62
6/1/2023	14.62
7/1/2023	14.59
8/1/2023	14.58
9/1/2023	14.67
10/1/2023	14.61
11/1/2023	14.57
12/1/2023	14.56
1/1/2024	14.89
2/1/2024	14.89
3/1/2024	14.89
4/1/2024	14.89
5/1/2024	14.89

		Avon Park
2019	2019	14.28
2019	2020	14.41
2019	2021	14.17
2019	2022	14.42
2019	2023	14.61
2019	2024	14.89
2019	2025	15.26
2019	2026	15.83
2019	2027	16.49
2019	2028	17.25
2019	2029	17.94
2019	2030	18.38
2020	2031	18.79
2020	2032	19.21
2020	2033	19.65
2020	2034	20.10
2020	2035	20.55
2020	2036	21.02
2020	2037	21.50
2020	2038	21.90
2020	2039	22.30
2020	2040	22.45
2020	2041	23.02
2020	2042	23.61
2021	2043	23.81
2021	2044	24.42
2021	2045	24.62
2021	2046	25.24
2021	2047	25.87
2021	2048	26.06
2021	2049	26.71
2021	2050	26.72
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6/1/2024	14.08	14.27	0%	14.08	0.810	6/1/2024	14.89	2024
7/1/2024	14.08	14.21	0%	14.08	0.810	7/1/2024	14.89	2024
8/1/2024	14.08	14.21	0%	14.08	0.810	8/1/2024	14.89	2024
9/1/2024	14.08	14.80	0%	14.08	0.810	9/1/2024	14.89	2024
10/1/2024	14.08	14.53	0%	14.08	0.810	10/1/2024	14.89	2024
11/1/2024	14.08	14.28	0%	14.08	0.810	11/1/2024	14.89	2024
12/1/2024	14.08	14.31	0%	14.08	0.810	12/1/2024	14.89	2024
1/1/2025	14.43	14.47	0%	14.43	0.822	1/1/2025	15.26	2025
2/1/2025	14.43	14.48	0%	14.43	0.822	2/1/2025	15.26	2025
3/1/2025	14.43	14.50	0%	14.43	0.822	3/1/2025	15.26	2025
4/1/2025	14.43	14.52	0%	14.43	0.822	4/1/2025	15.26	2025
5/1/2025	14.43	14.54	0%	14.43	0.822	5/1/2025	15.26	2025
6/1/2025	14.43	14.56	0%	14.43	0.822	6/1/2025	15.26	2025
7/1/2025	14.43	14.50	0%	14.43	0.822	7/1/2025	15.26	2025
8/1/2025	14.43	14.50	0%	14.43	0.822	8/1/2025	15.26	2025
9/1/2025	14.43	15.10	0%	14.43	0.822	9/1/2025	15.26	2025
10/1/2025	14.43	14.82	0%	14.43	0.822	10/1/2025	15.26	2025
11/1/2025	14.43	14.57	0%	14.43	0.822	11/1/2025	15.26	2025
12/1/2025	14.43	14.60	0%	14.43	0.822	12/1/2025	15.26	2025
1/1/2026	15.00	14.75	0%	15.00	0.835	1/1/2026	15.83	2026
2/1/2026	15.00	14.77	0%	15.00	0.835	2/1/2026	15.83	2026
3/1/2026	15.00	14.79	0%	15.00	0.835	3/1/2026	15.83	2026
4/1/2026	15.00	14.81	0%	15.00	0.835	4/1/2026	15.83	2026
5/1/2026	15.00	14.83	0%	15.00	0.835	5/1/2026	15.83	2026
6/1/2026	15.00	14.85	0%	15.00	0.835	6/1/2026	15.83	2026
7/1/2026	15.00	14.79	0%	15.00	0.835	7/1/2026	15.83	2026
8/1/2026	15.00	14.79	0%	15.00	0.835	8/1/2026	15.83	2026
9/1/2026	15.00	15.40	0%	15.00	0.835	9/1/2026	15.83	2026
10/1/2026	15.00	15.11	0%	15.00	0.835	10/1/2026	15.83	2026
11/1/2026	15.00	14.86	0%	15.00	0.835	11/1/2026	15.83	2026
12/1/2026	15.00	14.89	0%	15.00	0.835	12/1/2026	15.83	2026
1/1/2027	15.64	15.05	0%	15.64	0.847	1/1/2027	16.49	2027
2/1/2027	15.64	15.07	0%	15.64	0.847	2/1/2027	16.49	2027
3/1/2027	15.64	15.09	0%	15.64	0.847	3/1/2027	16.49	2027
4/1/2027	15.64	15.11	0%	15.64	0.847	4/1/2027	16.49	2027
5/1/2027	15.64	15.13	0%	15.64	0.847	5/1/2027	16.49	2027
6/1/2027	15.64	15.15	0%	15.64	0.847	6/1/2027	16.49	2027
7/1/2027	15.64	15.08	0%	15.64	0.847	7/1/2027	16.49	2027
8/1/2027	15.64	15.08	0%	15.64	0.847	8/1/2027	16.49	2027
9/1/2027	15.64	15.71	0%	15.64	0.847	9/1/2027	16.49	2027
10/1/2027	15.64	15.42	0%	15.64	0.847	10/1/2027	16.49	2027
11/1/2027	15.64	15.16	0%	15.64	0.847	11/1/2027	16.49	2027
12/1/2027	15.64	15.19	0%	15.64	0.847	12/1/2027	16.49	2027
1/1/2028	16.39	15.35	0%	16.39	0.860	1/1/2028	17.25	2028
2/1/2028	16.39	15.37	0%	16.39	0.860	2/1/2028	17.25	2028
3/1/2028	16.39	15.39	0%	16.39	0.860	3/1/2028	17.25	2028
4/1/2028	16.39	15.41	0%	16.39	0.860	4/1/2028	17.25	2028
5/1/2028	16.39	15.43	0%	16.39	0.860	5/1/2028	17.25	2028
6/1/2028	16.39	15.45	0%	16.39	0.860	6/1/2028	17.25	2028
7/1/2028	16.39	15.38	0%	16.39	0.860	7/1/2028	17.25	2028
8/1/2028	16.39	15.38	0%	16.39	0.860	8/1/2028	17.25	2028
9/1/2028	16.39	16.03	0%	16.39	0.860	9/1/2028	17.25	2028
10/1/2028	16.39	15.73	0%	16.39	0.860	10/1/2028	17.25	2028
11/1/2028	16.39	15.46	0%	16.39	0.860	11/1/2028	17.25	2028
12/1/2028	16.39	15.49	0%	16.39	0.860	12/1/2028	17.25	2028
1/1/2029	17.07	15.66	0%	17.07	0.873	1/1/2029	17.94	2029
2/1/2029	17.07	15.68	0%	17.07	0.873	2/1/2029	17.94	2029
3/1/2029	17.07	15.70	0%	17.07	0.873	3/1/2029	17.94	2029
4/1/2029	17.07	15.72	0%	17.07	0.873	4/1/2029	17.94	2029
5/1/2029	17.07	15.74	0%	17.07	0.873	5/1/2029	17.94	2029
6/1/2029	17.07	15.76	0%	17.07	0.873	6/1/2029	17.94	2029
7/1/2029	17.07	15.69	0%	17.07	0.873	7/1/2029	17.94	2029
8/1/2029	17.07	15.69	0%	17.07	0.873	8/1/2029	17.94	2029
9/1/2029	17.07	16.35	0%	17.07	0.873	9/1/2029	17.94	2029
10/1/2029	17.07	16.04	0%	17.07	0.873	10/1/2029	17.94	2029
11/1/2029	17.07	15.77	0%	17.07	0.873	11/1/2029	17.94	2029
12/1/2029	17.07	15.80	0%	17.07	0.873	12/1/2029	17.94	2029
1/1/2030	17.50	15.97	0%	17.50	0.886	1/1/2030	18.38	2030
2/1/2030	17.50	15.99	0%	17.50	0.886	2/1/2030	18.38	2030
3/1/2030	17.50	16.01	0%	17.50	0.886	3/1/2030	18.38	2030
4/1/2030	17.50	16.03	0%	17.50	0.886	4/1/2030	18.38	2030

5/1/2030	17.50	16.05	0%	17.50	0.886	5/1/2030	18.38	2030
6/1/2030	17.50	16.08	0%	17.50	0.886	6/1/2030	18.38	2030
7/1/2030	17.50	16.00	0%	17.50	0.886	7/1/2030	18.38	2030
8/1/2030	17.50	16.00	0%	17.50	0.886	8/1/2030	18.38	2030
9/1/2030	17.50	16.67	0%	17.50	0.886	9/1/2030	18.38	2030
10/1/2030	17.50	16.36	0%	17.50	0.886	10/1/2030	18.38	2030
11/1/2030	17.50	16.09	0%	17.50	0.886	11/1/2030	18.38	2030
12/1/2030	17.50	16.12	0%	17.50	0.886	12/1/2030	18.38	2030
1/1/2031	17.89	16.29	0%	17.89	0.899	1/1/2031	18.79	2031
2/1/2031	17.89	16.31	0%	17.89	0.899	2/1/2031	18.79	2031
3/1/2031	17.89	16.33	0%	17.89	0.899	3/1/2031	18.79	2031
4/1/2031	17.89	16.35	0%	17.89	0.899	4/1/2031	18.79	2031
5/1/2031	17.89	16.38	0%	17.89	0.899	5/1/2031	18.79	2031
6/1/2031	17.89	16.40	0%	17.89	0.899	6/1/2031	18.79	2031
7/1/2031	17.89	16.32	0%	17.89	0.899	7/1/2031	18.79	2031
8/1/2031	17.89	16.32	0%	17.89	0.899	8/1/2031	18.79	2031
9/1/2031	17.89	17.01	0%	17.89	0.899	9/1/2031	18.79	2031
10/1/2031	17.89	16.69	0%	17.89	0.899	10/1/2031	18.79	2031
11/1/2031	17.89	16.41	0%	17.89	0.899	11/1/2031	18.79	2031
12/1/2031	17.89	16.44	0%	17.89	0.899	12/1/2031	18.79	2031
1/1/2032	18.30	16.62	0%	18.30	0.913	1/1/2032	19.21	2032
2/1/2032	18.30	16.64	0%	18.30	0.913	2/1/2032	19.21	2032
3/1/2032	18.30	16.66	0%	18.30	0.913	3/1/2032	19.21	2032
4/1/2032	18.30	16.68	0%	18.30	0.913	4/1/2032	19.21	2032
5/1/2032	18.30	16.70	0%	18.30	0.913	5/1/2032	19.21	2032
6/1/2032	18.30	16.72	0%	18.30	0.913	6/1/2032	19.21	2032
7/1/2032	18.30	16.65	0%	18.30	0.913	7/1/2032	19.21	2032
8/1/2032	18.30	16.65	0%	18.30	0.913	8/1/2032	19.21	2032
9/1/2032	18.30	17.35	0%	18.30	0.913	9/1/2032	19.21	2032
10/1/2032	18.30	17.02	0%	18.30	0.913	10/1/2032	19.21	2032
11/1/2032	18.30	16.74	0%	18.30	0.913	11/1/2032	19.21	2032
12/1/2032	18.30	16.77	0%	18.30	0.913	12/1/2032	19.21	2032
1/1/2033	18.73	16.95	0%	18.73	0.926	1/1/2033	19.65	2033
2/1/2033	18.73	16.97	0%	18.73	0.926	2/1/2033	19.65	2033
3/1/2033	18.73	16.99	0%	18.73	0.926	3/1/2033	19.65	2033
4/1/2033	18.73	17.01	0%	18.73	0.926	4/1/2033	19.65	2033
5/1/2033	18.73	17.04	0%	18.73	0.926	5/1/2033	19.65	2033
6/1/2033	18.73	17.06	0%	18.73	0.926	6/1/2033	19.65	2033
7/1/2033	18.73	16.98	0%	18.73	0.926	7/1/2033	19.65	2033
8/1/2033	18.73	16.98	0%	18.73	0.926	8/1/2033	19.65	2033
9/1/2033	18.73	17.69	0%	18.73	0.926	9/1/2033	19.65	2033
10/1/2033	18.73	17.36	0%	18.73	0.926	10/1/2033	19.65	2033
11/1/2033	18.73	17.07	0%	18.73	0.926	11/1/2033	19.65	2033
12/1/2033	18.73	17.10	0%	18.73	0.926	12/1/2033	19.65	2033
1/1/2034	19.16	17.29	0%	19.16	0.940	1/1/2034	20.10	2034
2/1/2034	19.16	17.31	0%	19.16	0.940	2/1/2034	20.10	2034
3/1/2034	19.16	17.33	0%	19.16	0.940	3/1/2034	20.10	2034
4/1/2034	19.16	17.36	0%	19.16	0.940	4/1/2034	20.10	2034
5/1/2034	19.16	17.38	0%	19.16	0.940	5/1/2034	20.10	2034
6/1/2034	19.16	17.40	0%	19.16	0.940	6/1/2034	20.10	2034
7/1/2034	19.16	17.32	0%	19.16	0.940	7/1/2034	20.10	2034
8/1/2034	19.16	17.32	0%	19.16	0.940	8/1/2034	20.10	2034
9/1/2034	19.16	18.05	0%	19.16	0.940	9/1/2034	20.10	2034
10/1/2034	19.16	17.71	0%	19.16	0.940	10/1/2034	20.10	2034
11/1/2034	19.16	17.41	0%	19.16	0.940	11/1/2034	20.10	2034
12/1/2034	19.16	17.44	0%	19.16	0.940	12/1/2034	20.10	2034
1/1/2035	19.60	17.63	0%	19.60	0.954	1/1/2035	20.55	2035
2/1/2035	19.60	17.66	0%	19.60	0.954	2/1/2035	20.55	2035
3/1/2035	19.60	17.68	0%	19.60	0.954	3/1/2035	20.55	2035
4/1/2035	19.60	17.70	0%	19.60	0.954	4/1/2035	20.55	2035
5/1/2035	19.60	17.73	0%	19.60	0.954	5/1/2035	20.55	2035
6/1/2035	19.60	17.75	0%	19.60	0.954	6/1/2035	20.55	2035
7/1/2035	19.60	17.67	0%	19.60	0.954	7/1/2035	20.55	2035
8/1/2035	19.60	17.67	0%	19.60	0.954	8/1/2035	20.55	2035
9/1/2035	19.60	18.41	0%	19.60	0.954	9/1/2035	20.55	2035
10/1/2035	19.60	18.06	0%	19.60	0.954	10/1/2035	20.55	2035
11/1/2035	19.60	17.76	0%	19.60	0.954	11/1/2035	20.55	2035
12/1/2035	19.60	17.79	0%	19.60	0.954	12/1/2035	20.55	2035
1/1/2036	20.05	17.99	0%	20.05	0.954	1/1/2036	21.00	2036
2/1/2036	20.05	18.01	0%	20.05	0.954	2/1/2036	21.00	2036
3/1/2036	20.05	18.03	0%	20.05	0.968	3/1/2036	21.02	2036

4/1/2036	20.05	18.06	0%	20.05	0.968	4/1/2036	21.02	2036
5/1/2036	20.05	18.08	0%	20.05	0.968	5/1/2036	21.02	2036
6/1/2036	20.05	18.10	0%	20.05	0.968	6/1/2036	21.02	2036
7/1/2036	20.05	18.02	0%	20.05	0.968	7/1/2036	21.02	2036
8/1/2036	20.05	18.02	0%	20.05	0.968	8/1/2036	21.02	2036
9/1/2036	20.05	18.78	0%	20.05	0.968	9/1/2036	21.02	2036
10/1/2036	20.05	18.42	0%	20.05	0.968	10/1/2036	21.02	2036
11/1/2036	20.05	18.12	0%	20.05	0.968	11/1/2036	21.02	2036
12/1/2036	20.05	18.15	0%	20.05	0.968	12/1/2036	21.02	2036
1/1/2037	20.52	18.35	0%	20.52	0.968	1/1/2037	21.49	2037
2/1/2037	20.52	18.37	0%	20.52	0.968	2/1/2037	21.49	2037
3/1/2037	20.52	18.39	0%	20.52	0.983	3/1/2037	21.50	2037
4/1/2037	20.52	18.42	0%	20.52	0.983	4/1/2037	21.50	2037
5/1/2037	20.52	18.44	0%	20.52	0.983	5/1/2037	21.50	2037
6/1/2037	20.52	18.47	0%	20.52	0.983	6/1/2037	21.50	2037
7/1/2037	20.52	18.38	0%	20.52	0.983	7/1/2037	21.50	2037
8/1/2037	20.52	18.38	0%	20.52	0.983	8/1/2037	21.50	2037
9/1/2037	20.52	19.15	0%	20.52	0.983	9/1/2037	21.50	2037
10/1/2037	20.52	18.79	0%	20.52	0.983	10/1/2037	21.50	2037
11/1/2037	20.52	18.48	0%	20.52	0.983	11/1/2037	21.50	2037
12/1/2037	20.52	18.51	0%	20.52	0.983	12/1/2037	21.50	2037
1/1/2038	20.91	18.71	0%	20.91	0.983	1/1/2038	21.89	2038
2/1/2038	20.91	18.74	0%	20.91	0.983	2/1/2038	21.89	2038
3/1/2038	20.91	18.76	0%	20.91	0.998	3/1/2038	21.91	2038
4/1/2038	20.91	18.79	0%	20.91	0.998	4/1/2038	21.91	2038
5/1/2038	20.91	18.81	0%	20.91	0.998	5/1/2038	21.91	2038
6/1/2038	20.91	18.83	0%	20.91	0.998	6/1/2038	21.91	2038
7/1/2038	20.91	18.75	0%	20.91	0.998	7/1/2038	21.91	2038
8/1/2038	20.91	18.75	0%	20.91	0.998	8/1/2038	21.91	2038
9/1/2038	20.91	19.53	0%	20.91	0.998	9/1/2038	21.91	2038
10/1/2038	20.91	19.17	0%	20.91	0.998	10/1/2038	21.91	2038
11/1/2038	20.91	18.85	0%	20.91	0.998	11/1/2038	21.91	2038
12/1/2038	20.91	18.88	0%	20.91	0.998	12/1/2038	21.91	2038
1/1/2039	21.29	19.09	0%	21.29	0.998	1/1/2039	22.28	2039
2/1/2039	21.29	19.11	0%	21.29	0.998	2/1/2039	22.28	2039
3/1/2039	21.29	19.14	0%	21.29	1.013	3/1/2039	22.30	2039
4/1/2039	21.29	19.16	0%	21.29	1.013	4/1/2039	22.30	2039
5/1/2039	21.29	19.19	0%	21.29	1.013	5/1/2039	22.30	2039
6/1/2039	21.29	19.21	0%	21.29	1.013	6/1/2039	22.30	2039
7/1/2039	21.29	19.13	0%	21.29	1.013	7/1/2039	22.30	2039
8/1/2039	21.29	19.13	0%	21.29	1.013	8/1/2039	22.30	2039
9/1/2039	21.29	19.93	0%	21.29	1.013	9/1/2039	22.30	2039
10/1/2039	21.29	19.55	0%	21.29	1.013	10/1/2039	22.30	2039
11/1/2039	21.29	19.22	0%	21.29	1.013	11/1/2039	22.30	2039
12/1/2039	21.29	19.26	0%	21.29	1.013	12/1/2039	22.30	2039
1/1/2040	21.42	19.47	0%	21.42	1.013	1/1/2040	22.43	2040
2/1/2040	21.42	19.49	0%	21.42	1.013	2/1/2040	22.43	2040
3/1/2040	21.42	19.52	0%	21.42	1.028	3/1/2040	22.45	2040
4/1/2040	21.42	19.54	0%	21.42	1.028	4/1/2040	22.45	2040
5/1/2040	21.42	19.57	0%	21.42	1.028	5/1/2040	22.45	2040
6/1/2040	21.42	19.60	0%	21.42	1.028	6/1/2040	22.45	2040
7/1/2040	21.42	19.51	0%	21.42	1.028	7/1/2040	22.45	2040
8/1/2040	21.42	19.51	0%	21.42	1.028	8/1/2040	22.45	2040
9/1/2040	21.42	20.32	0%	21.42	1.028	9/1/2040	22.45	2040
10/1/2040	21.42	19.94	0%	21.42	1.028	10/1/2040	22.45	2040
11/1/2040	21.42	19.61	0%	21.42	1.028	11/1/2040	22.45	2040
12/1/2040	21.42	19.64	0%	21.42	1.028	12/1/2040	22.45	2040
1/1/2041	21.98	19.86	0%	21.98	1.028	1/1/2041	23.00	2041
2/1/2041	21.98	19.88	0%	21.98	1.028	2/1/2041	23.00	2041
3/1/2041	21.98	19.91	0%	21.98	1.043	3/1/2041	23.02	2041
4/1/2041	21.98	19.94	0%	21.98	1.043	4/1/2041	23.02	2041
5/1/2041	21.98	19.96	0%	21.98	1.043	5/1/2041	23.02	2041
6/1/2041	21.98	19.99	0%	21.98	1.043	6/1/2041	23.02	2041
7/1/2041	21.98	19.90	0%	21.98	1.043	7/1/2041	23.02	2041
8/1/2041	21.98	19.90	0%	21.98	1.043	8/1/2041	23.02	2041
9/1/2041	21.98	20.73	0%	21.98	1.043	9/1/2041	23.02	2041
10/1/2041	21.98	20.34	0%	21.98	1.043	10/1/2041	23.02	2041
11/1/2041	21.98	20.00	0%	21.98	1.043	11/1/2041	23.02	2041
12/1/2041	21.98	20.04	0%	21.98	1.043	12/1/2041	23.02	2041
1/1/2042	22.55	20.25	0%	22.55	1.043	1/1/2042	23.59	2042
2/1/2042	22.55	20.28	0%	22.55	1.043	2/1/2042	23.59	2042

3/1/2042	22.55	20.31	0%	22.55	1.059	3/1/2042	23.61	2042
4/1/2042	22.55	20.33	0%	22.55	1.059	4/1/2042	23.61	2042
5/1/2042	22.55	20.36	0%	22.55	1.059	5/1/2042	23.61	2042
6/1/2042	22.55	20.39	0%	22.55	1.059	6/1/2042	23.61	2042
7/1/2042	22.55	20.30	0%	22.55	1.059	7/1/2042	23.61	2042
8/1/2042	22.55	20.30	0%	22.55	1.059	8/1/2042	23.61	2042
9/1/2042	22.55	21.14	0%	22.55	1.059	9/1/2042	23.61	2042
10/1/2042	22.55	20.75	0%	22.55	1.059	10/1/2042	23.61	2042
11/1/2042	22.55	20.40	0%	22.55	1.059	11/1/2042	23.61	2042
12/1/2042	22.55	20.44	0%	22.55	1.059	12/1/2042	23.61	2042
1/1/2043	22.74	20.66	0%	22.74	1.059	1/1/2043	23.80	2043
2/1/2043	22.74	20.69	0%	22.74	1.059	2/1/2043	23.80	2043
3/1/2043	22.74	20.71	0%	22.74	1.075	3/1/2043	23.81	2043
4/1/2043	22.74	20.74	0%	22.74	1.075	4/1/2043	23.81	2043
5/1/2043	22.74	20.77	0%	22.74	1.075	5/1/2043	23.81	2043
6/1/2043	22.74	20.80	0%	22.74	1.075	6/1/2043	23.81	2043
7/1/2043	22.74	20.70	0%	22.74	1.075	7/1/2043	23.81	2043
8/1/2043	22.74	20.70	0%	22.74	1.075	8/1/2043	23.81	2043
9/1/2043	22.74	21.57	0%	22.74	1.075	9/1/2043	23.81	2043
10/1/2043	22.74	21.16	0%	22.74	1.075	10/1/2043	23.81	2043
11/1/2043	22.74	20.81	0%	22.74	1.075	11/1/2043	23.81	2043
12/1/2043	22.74	20.85	0%	22.74	1.075	12/1/2043	23.81	2043
1/1/2044	23.33	21.07	0%	23.33	1.075	1/1/2044	24.41	2044
2/1/2044	23.33	21.10	0%	23.33	1.075	2/1/2044	24.41	2044
3/1/2044	23.33	21.13	0%	23.33	1.091	3/1/2044	24.42	2044
4/1/2044	23.33	21.16	0%	23.33	1.091	4/1/2044	24.42	2044
5/1/2044	23.33	21.18	0%	23.33	1.091	5/1/2044	24.42	2044
6/1/2044	23.33	21.21	0%	23.33	1.091	6/1/2044	24.42	2044
7/1/2044	23.33	21.12	0%	23.33	1.091	7/1/2044	24.42	2044
8/1/2044	23.33	21.12	0%	23.33	1.091	8/1/2044	24.42	2044
9/1/2044	23.33	22.00	0%	23.33	1.091	9/1/2044	24.42	2044
10/1/2044	23.33	21.59	0%	23.33	1.091	10/1/2044	24.42	2044
11/1/2044	23.33	21.22	0%	23.33	1.091	11/1/2044	24.42	2044
12/1/2044	23.33	21.26	0%	23.33	1.091	12/1/2044	24.42	2044
1/1/2045	23.52	21.49	0%	23.52	1.091	1/1/2045	24.61	2045
2/1/2045	23.52	21.52	0%	23.52	1.091	2/1/2045	24.61	2045
3/1/2045	23.52	21.55	0%	23.52	1.107	3/1/2045	24.62	2045
4/1/2045	23.52	21.58	0%	23.52	1.107	4/1/2045	24.62	2045
5/1/2045	23.52	21.61	0%	23.52	1.107	5/1/2045	24.62	2045
6/1/2045	23.52	21.64	0%	23.52	1.107	6/1/2045	24.62	2045
7/1/2045	23.52	21.54	0%	23.52	1.107	7/1/2045	24.62	2045
8/1/2045	23.52	21.54	0%	23.52	1.107	8/1/2045	24.62	2045
9/1/2045	23.52	22.44	0%	23.52	1.107	9/1/2045	24.62	2045
10/1/2045	23.52	22.02	0%	23.52	1.107	10/1/2045	24.62	2045
11/1/2045	23.52	21.65	0%	23.52	1.107	11/1/2045	24.62	2045
12/1/2045	23.52	21.69	0%	23.52	1.107	12/1/2045	24.62	2045
1/1/2046	24.12	21.92	0%	24.12	1.107	1/1/2046	25.23	2046
2/1/2046	24.12	21.95	0%	24.12	1.107	2/1/2046	25.23	2046
3/1/2046	24.12	21.98	0%	24.12	1.124	3/1/2046	25.24	2046
4/1/2046	24.12	22.01	0%	24.12	1.124	4/1/2046	25.24	2046
5/1/2046	24.12	22.04	0%	24.12	1.124	5/1/2046	25.24	2046
6/1/2046	24.12	22.07	0%	24.12	1.124	6/1/2046	25.24	2046
7/1/2046	24.12	21.97	0%	24.12	1.124	7/1/2046	25.24	2046
8/1/2046	24.12	21.97	0%	24.12	1.124	8/1/2046	25.24	2046
9/1/2046	24.12	22.89	0%	24.12	1.124	9/1/2046	25.24	2046
10/1/2046	24.12	22.46	0%	24.12	1.124	10/1/2046	25.24	2046
11/1/2046	24.12	22.08	0%	24.12	1.124	11/1/2046	25.24	2046
12/1/2046	24.12	22.12	0%	24.12	1.124	12/1/2046	25.24	2046
1/1/2047	24.73	22.36	0%	24.73	1.124	1/1/2047	25.85	2047
2/1/2047	24.73	22.39	0%	24.73	1.124	2/1/2047	25.85	2047
3/1/2047	24.73	22.42	0%	24.73	1.141	3/1/2047	25.87	2047
4/1/2047	24.73	22.45	0%	24.73	1.141	4/1/2047	25.87	2047
5/1/2047	24.73	22.48	0%	24.73	1.141	5/1/2047	25.87	2047
6/1/2047	24.73	22.51	0%	24.73	1.141	6/1/2047	25.87	2047
7/1/2047	24.73	22.41	0%	24.73	1.141	7/1/2047	25.87	2047
8/1/2047	24.73	22.41	0%	24.73	1.141	8/1/2047	25.87	2047
9/1/2047	24.73	23.35	0%	24.73	1.141	9/1/2047	25.87	2047
10/1/2047	24.73	22.91	0%	24.73	1.141	10/1/2047	25.87	2047
11/1/2047	24.73	22.52	0%	24.73	1.141	11/1/2047	25.87	2047
12/1/2047	24.73	22.57	0%	24.73	1.141	12/1/2047	25.87	2047
1/1/2048	24.91	22.81	0%	24.91	1.141	1/1/2048	26.05	2048

2/1/2048	24.91	22.84	0%	24.91	1.141	2/1/2048	26.05	2048
3/1/2048	24.91	22.87	0%	24.91	1.158	3/1/2048	26.06	2048
4/1/2048	24.91	22.90	0%	24.91	1.158	4/1/2048	26.06	2048
5/1/2048	24.91	22.93	0%	24.91	1.158	5/1/2048	26.06	2048
6/1/2048	24.91	22.96	0%	24.91	1.158	6/1/2048	26.06	2048
7/1/2048	24.91	22.86	0%	24.91	1.158	7/1/2048	26.06	2048
8/1/2048	24.91	22.86	0%	24.91	1.158	8/1/2048	26.06	2048
9/1/2048	24.91	23.81	0%	24.91	1.158	9/1/2048	26.06	2048
10/1/2048	24.91	23.37	0%	24.91	1.158	10/1/2048	26.06	2048
11/1/2048	24.91	22.97	0%	24.91	1.158	11/1/2048	26.06	2048
12/1/2048	24.91	23.02	0%	24.91	1.158	12/1/2048	26.06	2048
1/1/2049	25.53	23.27	0%	25.53	1.158	1/1/2049	26.69	2049
2/1/2049	25.53	23.30	0%	25.53	1.158	2/1/2049	26.69	2049
3/1/2049	25.53	23.33	0%	25.53	1.175	3/1/2049	26.71	2049
4/1/2049	25.53	23.36	0%	25.53	1.175	4/1/2049	26.71	2049
5/1/2049	25.53	23.39	0%	25.53	1.175	5/1/2049	26.71	2049
6/1/2049	25.53	23.42	0%	25.53	1.175	6/1/2049	26.71	2049
7/1/2049	25.53	23.32	0%	25.53	1.175	7/1/2049	26.71	2049
8/1/2049	25.53	23.32	0%	25.53	1.175	8/1/2049	26.71	2049
9/1/2049	25.53	24.29	0%	25.53	1.175	9/1/2049	26.71	2049
10/1/2049	25.53	23.83	0%	25.53	1.175	10/1/2049	26.71	2049
11/1/2049	25.53	23.43	0%	25.53	1.175	11/1/2049	26.71	2049
12/1/2049	25.53	23.48	0%	25.53	1.175	12/1/2049	26.71	2049
1/1/2050	25.53	23.73	0%	25.53	1.175	1/1/2050	26.71	2050
2/1/2050	25.53	23.76	0%	25.53	1.175	2/1/2050	26.71	2050
3/1/2050	25.53	23.79	0%	25.53	1.193	3/1/2050	26.73	2050
4/1/2050	25.53	23.83	0%	25.53	1.193	4/1/2050	26.73	2050
5/1/2050	25.53	23.86	0%	25.53	1.193	5/1/2050	26.73	2050
6/1/2050	25.53	23.89	0%	25.53	1.193	6/1/2050	26.73	2050
7/1/2050	25.53	23.78	0%	25.53	1.193	7/1/2050	26.73	2050
8/1/2050	25.53	23.78	0%	25.53	1.193	8/1/2050	26.73	2050
9/1/2050	25.53	24.77	0%	25.53	1.193	9/1/2050	26.73	2050
10/1/2050	25.53	24.31	0%	25.53	1.193	10/1/2050	26.73	2050
11/1/2050	25.53	23.90	0%	25.53	1.193	11/1/2050	26.73	2050
12/1/2050	25.53	23.95	0%	25.53	1.193	12/1/2050	26.73	2050

Bartow / Bayboro

PETROLEUM PRODUCT PRICE FORECAST DATA

Date	Petroleum Product Price Forecast - Gulf Coast	TCM	Blend TCM/ Fundamental (%)	Blend TCM/ Fundamental ($)	Bartow / Bayboro Transport ($/MMBtu)
1/1/2019	14.62	12.93	100%	12.93	0.461
2/1/2019	14.62	13.87	100%	13.87	0.461
3/1/2019	14.62	13.78	100%	13.78	0.461
4/1/2019	14.62	14.33	100%	14.33	0.461
5/1/2019	14.62	14.29	100%	14.29	0.461
6/1/2019	14.62	13.17	100%	13.17	0.461
7/1/2019	14.62	13.86	100%	13.86	0.461
8/1/2019	14.62	13.04	100%	13.04	0.461
9/1/2019	14.62	13.58	100%	13.58	0.461
10/1/2019	14.62	13.31	100%	13.31	0.461
11/1/2019	14.62	13.08	100%	13.08	0.461
12/1/2019	14.62	13.09	100%	13.09	0.461
1/1/2020	13.66	13.80	100%	13.80	0.468
2/1/2020	13.66	14.09	100%	14.09	0.468
3/1/2020	13.66	14.60	100%	14.60	0.468
4/1/2020	13.66	14.42	100%	14.42	0.468
5/1/2020	13.66	13.11	100%	13.11	0.468
6/1/2020	13.66	13.60	100%	13.60	0.468
7/1/2020	13.66	12.98	100%	12.98	0.468
8/1/2020	13.66	13.82	100%	13.82	0.468
9/1/2020	13.66	13.64	100%	13.64	0.468
10/1/2020	13.66	13.38	100%	13.38	0.468
11/1/2020	13.66	13.16	100%	13.16	0.468
12/1/2020	13.66	13.18	100%	13.18	0.468
1/1/2021	13.38	13.24	100%	13.24	0.475
2/1/2021	13.38	13.26	100%	13.26	0.475
3/1/2021	13.38	13.28	100%	13.28	0.475
4/1/2021	13.38	13.30	100%	13.30	0.475
5/1/2021	13.38	13.31	100%	13.31	0.475
6/1/2021	13.38	13.33	100%	13.33	0.475
7/1/2021	13.38	13.33	100%	13.33	0.475
8/1/2021	13.38	13.33	100%	13.33	0.475
9/1/2021	13.38	13.89	100%	13.89	0.475
10/1/2021	13.38	13.63	100%	13.63	0.475
11/1/2021	13.38	13.40	100%	13.40	0.475
12/1/2021	13.38	13.42	100%	13.42	0.475
1/1/2022	13.44	13.57	96%	13.57	0.482
2/1/2022	13.44	13.59	92%	13.58	0.482
3/1/2022	13.44	13.61	88%	13.59	0.482
4/1/2022	13.44	13.62	84%	13.60	0.482
5/1/2022	13.44	13.64	80%	13.60	0.482
6/1/2022	13.44	13.66	76%	13.61	0.482
7/1/2022	13.44	13.66	72%	13.60	0.482
8/1/2022	13.44	13.66	68%	13.59	0.482
9/1/2022	13.44	14.23	64%	13.95	0.482
10/1/2022	13.44	13.96	60%	13.76	0.482
11/1/2022	13.44	13.73	56%	13.60	0.482
12/1/2022	13.44	13.75	52%	13.60	0.482
1/1/2023	13.75	13.90	48%	13.82	0.489
2/1/2023	13.75	13.92	44%	13.83	0.489
3/1/2023	13.75	13.94	40%	13.83	0.489
4/1/2023	13.75	13.96	36%	13.82	0.489
5/1/2023	13.75	13.98	32%	13.82	0.489
6/1/2023	13.75	13.99	28%	13.82	0.489
7/1/2023	13.75	13.93	24%	13.79	0.489
8/1/2023	13.75	13.93	20%	13.79	0.489
9/1/2023	13.75	14.51	16%	13.87	0.489
10/1/2023	13.75	14.24	12%	13.81	0.489
11/1/2023	13.75	14.00	8%	13.77	0.489
12/1/2023	13.75	14.03	4%	13.76	0.489
1/1/2024	14.08	14.18	0%	14.08	0.496
2/1/2024	14.08	14.20	0%	14.08	0.496
3/1/2024	14.08	14.22	0%	14.08	0.496
4/1/2024	14.08	14.24	0%	14.08	0.496

PROSYM INPUT

Date	nomianl$/MMBtu
1/1/2019	13.39
2/1/2019	14.33
3/1/2019	14.24
4/1/2019	14.79
5/1/2019	14.75
6/1/2019	13.63
7/1/2019	14.32
8/1/2019	13.50
9/1/2019	14.04
10/1/2019	13.77
11/1/2019	13.54
12/1/2019	13.55
1/1/2020	14.27
2/1/2020	14.56
3/1/2020	15.06
4/1/2020	14.89
5/1/2020	13.57
6/1/2020	14.07
7/1/2020	13.45
8/1/2020	14.29
9/1/2020	14.10
10/1/2020	13.85
11/1/2020	13.62
12/1/2020	13.65
1/1/2021	13.72
2/1/2021	13.74
3/1/2021	13.75
4/1/2021	13.77
5/1/2021	13.79
6/1/2021	13.81
7/1/2021	13.81
8/1/2021	13.81
9/1/2021	14.36
10/1/2021	14.10
11/1/2021	13.87
12/1/2021	13.90
1/1/2022	14.05
2/1/2022	14.06
3/1/2022	14.07
4/1/2022	14.08
5/1/2022	14.08
6/1/2022	14.09
7/1/2022	14.08
8/1/2022	14.07
9/1/2022	14.43
10/1/2022	14.24
11/1/2022	14.09
12/1/2022	14.09
1/1/2023	14.31
2/1/2023	14.31
3/1/2023	14.31
4/1/2023	14.31
5/1/2023	14.31
6/1/2023	14.31
7/1/2023	14.28
8/1/2023	14.28
9/1/2023	14.36
10/1/2023	14.30
11/1/2023	14.26
12/1/2023	14.25
1/1/2024	14.58
2/1/2024	14.58
3/1/2024	14.58
4/1/2024	14.58

ANNUAL AVERAGE

	Bartow / Bayboro
2019	13.99
2020	14.12
2021	13.87
2022	14.12
2023	14.30
2024	14.58
2025	14.94
2026	15.51
2027	16.16
2028	16.92
2029	17.61
2030	18.04
2031	18.44
2032	18.86
2033	19.29
2034	19.73
2035	20.18
2036	20.64
2037	21.12
2038	21.52
2039	21.91
2040	22.05
2041	22.62
2042	23.20
2043	23.40
2044	24.00
2045	24.19
2046	24.81
2047	25.43
2048	25.61
2049	26.25
2050	26.26

5/1/2024	14.08	14.26	0%	14.08	0.496	5/1/2024	14.58	2024
6/1/2024	14.08	14.27	0%	14.08	0.496	6/1/2024	14.58	2024
7/1/2024	14.08	14.21	0%	14.08	0.496	7/1/2024	14.58	2024
8/1/2024	14.08	14.21	0%	14.08	0.496	8/1/2024	14.58	2024
9/1/2024	14.08	14.80	0%	14.08	0.496	9/1/2024	14.58	2024
10/1/2024	14.08	14.53	0%	14.08	0.496	10/1/2024	14.58	2024
11/1/2024	14.08	14.28	0%	14.08	0.496	11/1/2024	14.58	2024
12/1/2024	14.08	14.31	0%	14.08	0.496	12/1/2024	14.58	2024
1/1/2025	14.43	14.47	0%	14.43	0.504	1/1/2025	14.94	2025
2/1/2025	14.43	14.48	0%	14.43	0.504	2/1/2025	14.94	2025
3/1/2025	14.43	14.50	0%	14.43	0.504	3/1/2025	14.94	2025
4/1/2025	14.43	14.52	0%	14.43	0.504	4/1/2025	14.94	2025
5/1/2025	14.43	14.54	0%	14.43	0.504	5/1/2025	14.94	2025
6/1/2025	14.43	14.56	0%	14.43	0.504	6/1/2025	14.94	2025
7/1/2025	14.43	14.50	0%	14.43	0.504	7/1/2025	14.94	2025
8/1/2025	14.43	14.50	0%	14.43	0.504	8/1/2025	14.94	2025
9/1/2025	14.43	15.10	0%	14.43	0.504	9/1/2025	14.94	2025
10/1/2025	14.43	14.82	0%	14.43	0.504	10/1/2025	14.94	2025
11/1/2025	14.43	14.57	0%	14.43	0.504	11/1/2025	14.94	2025
12/1/2025	14.43	14.60	0%	14.43	0.504	12/1/2025	14.94	2025
1/1/2026	15.00	14.75	0%	15.00	0.511	1/1/2026	15.51	2026
2/1/2026	15.00	14.77	0%	15.00	0.511	2/1/2026	15.51	2026
3/1/2026	15.00	14.79	0%	15.00	0.511	3/1/2026	15.51	2026
4/1/2026	15.00	14.81	0%	15.00	0.511	4/1/2026	15.51	2026
5/1/2026	15.00	14.83	0%	15.00	0.511	5/1/2026	15.51	2026
6/1/2026	15.00	14.85	0%	15.00	0.511	6/1/2026	15.51	2026
7/1/2026	15.00	14.79	0%	15.00	0.511	7/1/2026	15.51	2026
8/1/2026	15.00	14.79	0%	15.00	0.511	8/1/2026	15.51	2026
9/1/2026	15.00	15.40	0%	15.00	0.511	9/1/2026	15.51	2026
10/1/2026	15.00	15.11	0%	15.00	0.511	10/1/2026	15.51	2026
11/1/2026	15.00	14.86	0%	15.00	0.511	11/1/2026	15.51	2026
12/1/2026	15.00	14.89	0%	15.00	0.511	12/1/2026	15.51	2026
1/1/2027	15.64	15.05	0%	15.64	0.519	1/1/2027	16.16	2027
2/1/2027	15.64	15.07	0%	15.64	0.519	2/1/2027	16.16	2027
3/1/2027	15.64	15.09	0%	15.64	0.519	3/1/2027	16.16	2027
4/1/2027	15.64	15.11	0%	15.64	0.519	4/1/2027	16.16	2027
5/1/2027	15.64	15.13	0%	15.64	0.519	5/1/2027	16.16	2027
6/1/2027	15.64	15.15	0%	15.64	0.519	6/1/2027	16.16	2027
7/1/2027	15.64	15.08	0%	15.64	0.519	7/1/2027	16.16	2027
8/1/2027	15.64	15.08	0%	15.64	0.519	8/1/2027	16.16	2027
9/1/2027	15.64	15.71	0%	15.64	0.519	9/1/2027	16.16	2027
10/1/2027	15.64	15.42	0%	15.64	0.519	10/1/2027	16.16	2027
11/1/2027	15.64	15.16	0%	15.64	0.519	11/1/2027	16.16	2027
12/1/2027	15.64	15.19	0%	15.64	0.519	12/1/2027	16.16	2027
1/1/2028	16.39	15.35	0%	16.39	0.527	1/1/2028	16.92	2028
2/1/2028	16.39	15.37	0%	16.39	0.527	2/1/2028	16.92	2028
3/1/2028	16.39	15.39	0%	16.39	0.527	3/1/2028	16.92	2028
4/1/2028	16.39	15.41	0%	16.39	0.527	4/1/2028	16.92	2028
5/1/2028	16.39	15.43	0%	16.39	0.527	5/1/2028	16.92	2028
6/1/2028	16.39	15.45	0%	16.39	0.527	6/1/2028	16.92	2028
7/1/2028	16.39	15.38	0%	16.39	0.527	7/1/2028	16.92	2028
8/1/2028	16.39	15.38	0%	16.39	0.527	8/1/2028	16.92	2028
9/1/2028	16.39	16.03	0%	16.39	0.527	9/1/2028	16.92	2028
10/1/2028	16.39	15.73	0%	16.39	0.527	10/1/2028	16.92	2028
11/1/2028	16.39	15.46	0%	16.39	0.527	11/1/2028	16.92	2028
12/1/2028	16.39	15.49	0%	16.39	0.527	12/1/2028	16.92	2028
1/1/2029	17.07	15.66	0%	17.07	0.535	1/1/2029	17.61	2029
2/1/2029	17.07	15.68	0%	17.07	0.535	2/1/2029	17.61	2029
3/1/2029	17.07	15.70	0%	17.07	0.535	3/1/2029	17.61	2029
4/1/2029	17.07	15.72	0%	17.07	0.535	4/1/2029	17.61	2029
5/1/2029	17.07	15.74	0%	17.07	0.535	5/1/2029	17.61	2029
6/1/2029	17.07	15.76	0%	17.07	0.535	6/1/2029	17.61	2029
7/1/2029	17.07	15.69	0%	17.07	0.535	7/1/2029	17.61	2029
8/1/2029	17.07	15.69	0%	17.07	0.535	8/1/2029	17.61	2029
9/1/2029	17.07	16.35	0%	17.07	0.535	9/1/2029	17.61	2029
10/1/2029	17.07	16.04	0%	17.07	0.535	10/1/2029	17.61	2029
11/1/2029	17.07	15.77	0%	17.07	0.535	11/1/2029	17.61	2029
12/1/2029	17.07	15.80	0%	17.07	0.535	12/1/2029	17.61	2029
1/1/2030	17.50	15.97	0%	17.50	0.543	1/1/2030	18.04	2030
2/1/2030	17.50	15.99	0%	17.50	0.543	2/1/2030	18.04	2030
3/1/2030	17.50	16.01	0%	17.50	0.543	3/1/2030	18.04	2030

4/1/2030	17.50	16.03	0%	17.50	0.543	4/1/2030	18.04	2030
5/1/2030	17.50	16.05	0%	17.50	0.543	5/1/2030	18.04	2030
6/1/2030	17.50	16.08	0%	17.50	0.543	6/1/2030	18.04	2030
7/1/2030	17.50	16.00	0%	17.50	0.543	7/1/2030	18.04	2030
8/1/2030	17.50	16.00	0%	17.50	0.543	8/1/2030	18.04	2030
9/1/2030	17.50	16.67	0%	17.50	0.543	9/1/2030	18.04	2030
10/1/2030	17.50	16.36	0%	17.50	0.543	10/1/2030	18.04	2030
11/1/2030	17.50	16.09	0%	17.50	0.543	11/1/2030	18.04	2030
12/1/2030	17.50	16.12	0%	17.50	0.543	12/1/2030	18.04	2030
1/1/2031	17.89	16.29	0%	17.89	0.551	1/1/2031	18.44	2031
2/1/2031	17.89	16.31	0%	17.89	0.551	2/1/2031	18.44	2031
3/1/2031	17.89	16.33	0%	17.89	0.551	3/1/2031	18.44	2031
4/1/2031	17.89	16.35	0%	17.89	0.551	4/1/2031	18.44	2031
5/1/2031	17.89	16.38	0%	17.89	0.551	5/1/2031	18.44	2031
6/1/2031	17.89	16.40	0%	17.89	0.551	6/1/2031	18.44	2031
7/1/2031	17.89	16.32	0%	17.89	0.551	7/1/2031	18.44	2031
8/1/2031	17.89	16.32	0%	17.89	0.551	8/1/2031	18.44	2031
9/1/2031	17.89	17.01	0%	17.89	0.551	9/1/2031	18.44	2031
10/1/2031	17.89	16.69	0%	17.89	0.551	10/1/2031	18.44	2031
11/1/2031	17.89	16.41	0%	17.89	0.551	11/1/2031	18.44	2031
12/1/2031	17.89	16.44	0%	17.89	0.551	12/1/2031	18.44	2031
1/1/2032	18.30	16.62	0%	18.30	0.559	1/1/2032	18.86	2032
2/1/2032	18.30	16.64	0%	18.30	0.559	2/1/2032	18.86	2032
3/1/2032	18.30	16.66	0%	18.30	0.559	3/1/2032	18.86	2032
4/1/2032	18.30	16.68	0%	18.30	0.559	4/1/2032	18.86	2032
5/1/2032	18.30	16.70	0%	18.30	0.559	5/1/2032	18.86	2032
6/1/2032	18.30	16.72	0%	18.30	0.559	6/1/2032	18.86	2032
7/1/2032	18.30	16.65	0%	18.30	0.559	7/1/2032	18.86	2032
8/1/2032	18.30	16.65	0%	18.30	0.559	8/1/2032	18.86	2032
9/1/2032	18.30	17.35	0%	18.30	0.559	9/1/2032	18.86	2032
10/1/2032	18.30	17.02	0%	18.30	0.559	10/1/2032	18.86	2032
11/1/2032	18.30	16.74	0%	18.30	0.559	11/1/2032	18.86	2032
12/1/2032	18.30	16.77	0%	18.30	0.559	12/1/2032	18.86	2032
1/1/2033	18.73	16.95	0%	18.73	0.568	1/1/2033	19.29	2033
2/1/2033	18.73	16.97	0%	18.73	0.568	2/1/2033	19.29	2033
3/1/2033	18.73	16.99	0%	18.73	0.568	3/1/2033	19.29	2033
4/1/2033	18.73	17.01	0%	18.73	0.568	4/1/2033	19.29	2033
5/1/2033	18.73	17.04	0%	18.73	0.568	5/1/2033	19.29	2033
6/1/2033	18.73	17.06	0%	18.73	0.568	6/1/2033	19.29	2033
7/1/2033	18.73	16.98	0%	18.73	0.568	7/1/2033	19.29	2033
8/1/2033	18.73	16.98	0%	18.73	0.568	8/1/2033	19.29	2033
9/1/2033	18.73	17.69	0%	18.73	0.568	9/1/2033	19.29	2033
10/1/2033	18.73	17.36	0%	18.73	0.568	10/1/2033	19.29	2033
11/1/2033	18.73	17.07	0%	18.73	0.568	11/1/2033	19.29	2033
12/1/2033	18.73	17.10	0%	18.73	0.568	12/1/2033	19.29	2033
1/1/2034	19.16	17.29	0%	19.16	0.576	1/1/2034	19.73	2034
2/1/2034	19.16	17.31	0%	19.16	0.576	2/1/2034	19.73	2034
3/1/2034	19.16	17.33	0%	19.16	0.576	3/1/2034	19.73	2034
4/1/2034	19.16	17.36	0%	19.16	0.576	4/1/2034	19.73	2034
5/1/2034	19.16	17.38	0%	19.16	0.576	5/1/2034	19.73	2034
6/1/2034	19.16	17.40	0%	19.16	0.576	6/1/2034	19.73	2034
7/1/2034	19.16	17.32	0%	19.16	0.576	7/1/2034	19.73	2034
8/1/2034	19.16	17.32	0%	19.16	0.576	8/1/2034	19.73	2034
9/1/2034	19.16	18.05	0%	19.16	0.576	9/1/2034	19.73	2034
10/1/2034	19.16	17.71	0%	19.16	0.576	10/1/2034	19.73	2034
11/1/2034	19.16	17.41	0%	19.16	0.576	11/1/2034	19.73	2034
12/1/2034	19.16	17.44	0%	19.16	0.576	12/1/2034	19.73	2034
1/1/2035	19.60	17.63	0%	19.60	0.585	1/1/2035	20.18	2035
2/1/2035	19.60	17.66	0%	19.60	0.585	2/1/2035	20.18	2035
3/1/2035	19.60	17.68	0%	19.60	0.585	3/1/2035	20.18	2035
4/1/2035	19.60	17.70	0%	19.60	0.585	4/1/2035	20.18	2035
5/1/2035	19.60	17.73	0%	19.60	0.585	5/1/2035	20.18	2035
6/1/2035	19.60	17.75	0%	19.60	0.585	6/1/2035	20.18	2035
7/1/2035	19.60	17.67	0%	19.60	0.585	7/1/2035	20.18	2035
8/1/2035	19.60	17.67	0%	19.60	0.585	8/1/2035	20.18	2035
9/1/2035	19.60	18.41	0%	19.60	0.585	9/1/2035	20.18	2035
10/1/2035	19.60	18.06	0%	19.60	0.585	10/1/2035	20.18	2035
11/1/2035	19.60	17.76	0%	19.60	0.585	11/1/2035	20.18	2035
12/1/2035	19.60	17.79	0%	19.60	0.585	12/1/2035	20.18	2035
1/1/2036	20.05	17.99	0%	20.05	0.585	1/1/2036	20.64	2036
2/1/2036	20.05	18.01	0%	20.05	0.585	2/1/2036	20.64	2036

3/1/2036	20.05	18.03	0%	20.05	0.594	3/1/2036	20.64	2036
4/1/2036	20.05	18.06	0%	20.05	0.594	4/1/2036	20.64	2036
5/1/2036	20.05	18.08	0%	20.05	0.594	5/1/2036	20.64	2036
6/1/2036	20.05	18.10	0%	20.05	0.594	6/1/2036	20.64	2036
7/1/2036	20.05	18.02	0%	20.05	0.594	7/1/2036	20.64	2036
8/1/2036	20.05	18.02	0%	20.05	0.594	8/1/2036	20.64	2036
9/1/2036	20.05	18.78	0%	20.05	0.594	9/1/2036	20.64	2036
10/1/2036	20.05	18.42	0%	20.05	0.594	10/1/2036	20.64	2036
11/1/2036	20.05	18.12	0%	20.05	0.594	11/1/2036	20.64	2036
12/1/2036	20.05	18.15	0%	20.05	0.594	12/1/2036	20.64	2036
1/1/2037	20.52	18.35	0%	20.52	0.594	1/1/2037	21.11	2037
2/1/2037	20.52	18.37	0%	20.52	0.594	2/1/2037	21.11	2037
3/1/2037	20.52	18.39	0%	20.52	0.603	3/1/2037	21.12	2037
4/1/2037	20.52	18.42	0%	20.52	0.603	4/1/2037	21.12	2037
5/1/2037	20.52	18.44	0%	20.52	0.603	5/1/2037	21.12	2037
6/1/2037	20.52	18.47	0%	20.52	0.603	6/1/2037	21.12	2037
7/1/2037	20.52	18.38	0%	20.52	0.603	7/1/2037	21.12	2037
8/1/2037	20.52	18.38	0%	20.52	0.603	8/1/2037	21.12	2037
9/1/2037	20.52	19.15	0%	20.52	0.603	9/1/2037	21.12	2037
10/1/2037	20.52	18.79	0%	20.52	0.603	10/1/2037	21.12	2037
11/1/2037	20.52	18.48	0%	20.52	0.603	11/1/2037	21.12	2037
12/1/2037	20.52	18.51	0%	20.52	0.603	12/1/2037	21.12	2037
1/1/2038	20.91	18.71	0%	20.91	0.603	1/1/2038	21.51	2038
2/1/2038	20.91	18.74	0%	20.91	0.603	2/1/2038	21.51	2038
3/1/2038	20.91	18.76	0%	20.91	0.612	3/1/2038	21.52	2038
4/1/2038	20.91	18.79	0%	20.91	0.612	4/1/2038	21.52	2038
5/1/2038	20.91	18.81	0%	20.91	0.612	5/1/2038	21.52	2038
6/1/2038	20.91	18.83	0%	20.91	0.612	6/1/2038	21.52	2038
7/1/2038	20.91	18.75	0%	20.91	0.612	7/1/2038	21.52	2038
8/1/2038	20.91	18.75	0%	20.91	0.612	8/1/2038	21.52	2038
9/1/2038	20.91	19.53	0%	20.91	0.612	9/1/2038	21.52	2038
10/1/2038	20.91	19.17	0%	20.91	0.612	10/1/2038	21.52	2038
11/1/2038	20.91	18.85	0%	20.91	0.612	11/1/2038	21.52	2038
12/1/2038	20.91	18.88	0%	20.91	0.612	12/1/2038	21.52	2038
1/1/2039	21.29	19.09	0%	21.29	0.612	1/1/2039	21.90	2039
2/1/2039	21.29	19.11	0%	21.29	0.612	2/1/2039	21.90	2039
3/1/2039	21.29	19.14	0%	21.29	0.621	3/1/2039	21.91	2039
4/1/2039	21.29	19.16	0%	21.29	0.621	4/1/2039	21.91	2039
5/1/2039	21.29	19.19	0%	21.29	0.621	5/1/2039	21.91	2039
6/1/2039	21.29	19.21	0%	21.29	0.621	6/1/2039	21.91	2039
7/1/2039	21.29	19.13	0%	21.29	0.621	7/1/2039	21.91	2039
8/1/2039	21.29	19.13	0%	21.29	0.621	8/1/2039	21.91	2039
9/1/2039	21.29	19.93	0%	21.29	0.621	9/1/2039	21.91	2039
10/1/2039	21.29	19.55	0%	21.29	0.621	10/1/2039	21.91	2039
11/1/2039	21.29	19.22	0%	21.29	0.621	11/1/2039	21.91	2039
12/1/2039	21.29	19.26	0%	21.29	0.621	12/1/2039	21.91	2039
1/1/2040	21.42	19.47	0%	21.42	0.621	1/1/2040	22.04	2040
2/1/2040	21.42	19.49	0%	21.42	0.621	2/1/2040	22.04	2040
3/1/2040	21.42	19.52	0%	21.42	0.630	3/1/2040	22.05	2040
4/1/2040	21.42	19.54	0%	21.42	0.630	4/1/2040	22.05	2040
5/1/2040	21.42	19.57	0%	21.42	0.630	5/1/2040	22.05	2040
6/1/2040	21.42	19.60	0%	21.42	0.630	6/1/2040	22.05	2040
7/1/2040	21.42	19.51	0%	21.42	0.630	7/1/2040	22.05	2040
8/1/2040	21.42	19.51	0%	21.42	0.630	8/1/2040	22.05	2040
9/1/2040	21.42	20.32	0%	21.42	0.630	9/1/2040	22.05	2040
10/1/2040	21.42	19.94	0%	21.42	0.630	10/1/2040	22.05	2040
11/1/2040	21.42	19.61	0%	21.42	0.630	11/1/2040	22.05	2040
12/1/2040	21.42	19.64	0%	21.42	0.630	12/1/2040	22.05	2040
1/1/2041	21.98	19.86	0%	21.98	0.630	1/1/2041	22.61	2041
2/1/2041	21.98	19.88	0%	21.98	0.630	2/1/2041	22.61	2041
3/1/2041	21.98	19.91	0%	21.98	0.640	3/1/2041	22.62	2041
4/1/2041	21.98	19.94	0%	21.98	0.640	4/1/2041	22.62	2041
5/1/2041	21.98	19.96	0%	21.98	0.640	5/1/2041	22.62	2041
6/1/2041	21.98	19.99	0%	21.98	0.640	6/1/2041	22.62	2041
7/1/2041	21.98	19.90	0%	21.98	0.640	7/1/2041	22.62	2041
8/1/2041	21.98	19.90	0%	21.98	0.640	8/1/2041	22.62	2041
9/1/2041	21.98	20.73	0%	21.98	0.640	9/1/2041	22.62	2041
10/1/2041	21.98	20.34	0%	21.98	0.640	10/1/2041	22.62	2041
11/1/2041	21.98	20.00	0%	21.98	0.640	11/1/2041	22.62	2041
12/1/2041	21.98	20.04	0%	21.98	0.640	12/1/2041	22.62	2041
1/1/2042	22.55	20.25	0%	22.55	0.640	1/1/2042	23.19	2042

2/1/2042	22.55	20.28	0%	22.55	0.640	2/1/2042	23.19	2042
3/1/2042	22.55	20.31	0%	22.55	0.649	3/1/2042	23.20	2042
4/1/2042	22.55	20.33	0%	22.55	0.649	4/1/2042	23.20	2042
5/1/2042	22.55	20.36	0%	22.55	0.649	5/1/2042	23.20	2042
6/1/2042	22.55	20.39	0%	22.55	0.649	6/1/2042	23.20	2042
7/1/2042	22.55	20.30	0%	22.55	0.649	7/1/2042	23.20	2042
8/1/2042	22.55	20.30	0%	22.55	0.649	8/1/2042	23.20	2042
9/1/2042	22.55	21.14	0%	22.55	0.649	9/1/2042	23.20	2042
10/1/2042	22.55	20.75	0%	22.55	0.649	10/1/2042	23.20	2042
11/1/2042	22.55	20.40	0%	22.55	0.649	11/1/2042	23.20	2042
12/1/2042	22.55	20.44	0%	22.55	0.649	12/1/2042	23.20	2042
1/1/2043	22.74	20.66	0%	22.74	0.649	1/1/2043	23.39	2043
2/1/2043	22.74	20.69	0%	22.74	0.649	2/1/2043	23.39	2043
3/1/2043	22.74	20.71	0%	22.74	0.659	3/1/2043	23.40	2043
4/1/2043	22.74	20.74	0%	22.74	0.659	4/1/2043	23.40	2043
5/1/2043	22.74	20.77	0%	22.74	0.659	5/1/2043	23.40	2043
6/1/2043	22.74	20.80	0%	22.74	0.659	6/1/2043	23.40	2043
7/1/2043	22.74	20.70	0%	22.74	0.659	7/1/2043	23.40	2043
8/1/2043	22.74	20.70	0%	22.74	0.659	8/1/2043	23.40	2043
9/1/2043	22.74	21.57	0%	22.74	0.659	9/1/2043	23.40	2043
10/1/2043	22.74	21.16	0%	22.74	0.659	10/1/2043	23.40	2043
11/1/2043	22.74	20.81	0%	22.74	0.659	11/1/2043	23.40	2043
12/1/2043	22.74	20.85	0%	22.74	0.659	12/1/2043	23.40	2043
1/1/2044	23.33	21.07	0%	23.33	0.659	1/1/2044	23.99	2044
2/1/2044	23.33	21.10	0%	23.33	0.659	2/1/2044	23.99	2044
3/1/2044	23.33	21.13	0%	23.33	0.669	3/1/2044	24.00	2044
4/1/2044	23.33	21.16	0%	23.33	0.669	4/1/2044	24.00	2044
5/1/2044	23.33	21.18	0%	23.33	0.669	5/1/2044	24.00	2044
6/1/2044	23.33	21.21	0%	23.33	0.669	6/1/2044	24.00	2044
7/1/2044	23.33	21.12	0%	23.33	0.669	7/1/2044	24.00	2044
8/1/2044	23.33	21.12	0%	23.33	0.669	8/1/2044	24.00	2044
9/1/2044	23.33	22.00	0%	23.33	0.669	9/1/2044	24.00	2044
10/1/2044	23.33	21.59	0%	23.33	0.669	10/1/2044	24.00	2044
11/1/2044	23.33	21.22	0%	23.33	0.669	11/1/2044	24.00	2044
12/1/2044	23.33	21.26	0%	23.33	0.669	12/1/2044	24.00	2044
1/1/2045	23.52	21.49	0%	23.52	0.669	1/1/2045	24.19	2045
2/1/2045	23.52	21.52	0%	23.52	0.669	2/1/2045	24.19	2045
3/1/2045	23.52	21.55	0%	23.52	0.679	3/1/2045	24.20	2045
4/1/2045	23.52	21.58	0%	23.52	0.679	4/1/2045	24.20	2045
5/1/2045	23.52	21.61	0%	23.52	0.679	5/1/2045	24.20	2045
6/1/2045	23.52	21.64	0%	23.52	0.679	6/1/2045	24.20	2045
7/1/2045	23.52	21.54	0%	23.52	0.679	7/1/2045	24.20	2045
8/1/2045	23.52	21.54	0%	23.52	0.679	8/1/2045	24.20	2045
9/1/2045	23.52	22.44	0%	23.52	0.679	9/1/2045	24.20	2045
10/1/2045	23.52	22.02	0%	23.52	0.679	10/1/2045	24.20	2045
11/1/2045	23.52	21.65	0%	23.52	0.679	11/1/2045	24.20	2045
12/1/2045	23.52	21.69	0%	23.52	0.679	12/1/2045	24.20	2045
1/1/2046	24.12	21.92	0%	24.12	0.679	1/1/2046	24.80	2046
2/1/2046	24.12	21.95	0%	24.12	0.679	2/1/2046	24.80	2046
3/1/2046	24.12	21.98	0%	24.12	0.689	3/1/2046	24.81	2046
4/1/2046	24.12	22.01	0%	24.12	0.689	4/1/2046	24.81	2046
5/1/2046	24.12	22.04	0%	24.12	0.689	5/1/2046	24.81	2046
6/1/2046	24.12	22.07	0%	24.12	0.689	6/1/2046	24.81	2046
7/1/2046	24.12	21.97	0%	24.12	0.689	7/1/2046	24.81	2046
8/1/2046	24.12	21.97	0%	24.12	0.689	8/1/2046	24.81	2046
9/1/2046	24.12	22.89	0%	24.12	0.689	9/1/2046	24.81	2046
10/1/2046	24.12	22.46	0%	24.12	0.689	10/1/2046	24.81	2046
11/1/2046	24.12	22.08	0%	24.12	0.689	11/1/2046	24.81	2046
12/1/2046	24.12	22.12	0%	24.12	0.689	12/1/2046	24.81	2046
1/1/2047	24.73	22.36	0%	24.73	0.689	1/1/2047	25.42	2047
2/1/2047	24.73	22.39	0%	24.73	0.689	2/1/2047	25.42	2047
3/1/2047	24.73	22.42	0%	24.73	0.699	3/1/2047	25.43	2047
4/1/2047	24.73	22.45	0%	24.73	0.699	4/1/2047	25.43	2047
5/1/2047	24.73	22.48	0%	24.73	0.699	5/1/2047	25.43	2047
6/1/2047	24.73	22.51	0%	24.73	0.699	6/1/2047	25.43	2047
7/1/2047	24.73	22.41	0%	24.73	0.699	7/1/2047	25.43	2047
8/1/2047	24.73	22.41	0%	24.73	0.699	8/1/2047	25.43	2047
9/1/2047	24.73	23.35	0%	24.73	0.699	9/1/2047	25.43	2047
10/1/2047	24.73	22.91	0%	24.73	0.699	10/1/2047	25.43	2047
11/1/2047	24.73	22.52	0%	24.73	0.699	11/1/2047	25.43	2047
12/1/2047	24.73	22.57	0%	24.73	0.699	12/1/2047	25.43	2047

1/1/2048	24.91	22.81	0%	24.91	0.699	1/1/2048	25.61	2048
2/1/2048	24.91	22.84	0%	24.91	0.699	2/1/2048	25.61	2048
3/1/2048	24.91	22.87	0%	24.91	0.710	3/1/2048	25.62	2048
4/1/2048	24.91	22.90	0%	24.91	0.710	4/1/2048	25.62	2048
5/1/2048	24.91	22.93	0%	24.91	0.710	5/1/2048	25.62	2048
6/1/2048	24.91	22.96	0%	24.91	0.710	6/1/2048	25.62	2048
7/1/2048	24.91	22.86	0%	24.91	0.710	7/1/2048	25.62	2048
8/1/2048	24.91	22.86	0%	24.91	0.710	8/1/2048	25.62	2048
9/1/2048	24.91	23.81	0%	24.91	0.710	9/1/2048	25.62	2048
10/1/2048	24.91	23.37	0%	24.91	0.710	10/1/2048	25.62	2048
11/1/2048	24.91	22.97	0%	24.91	0.710	11/1/2048	25.62	2048
12/1/2048	24.91	23.02	0%	24.91	0.710	12/1/2048	25.62	2048
1/1/2049	25.53	23.27	0%	25.53	0.710	1/1/2049	26.24	2049
2/1/2049	25.53	23.30	0%	25.53	0.710	2/1/2049	26.24	2049
3/1/2049	25.53	23.33	0%	25.53	0.721	3/1/2049	26.25	2049
4/1/2049	25.53	23.36	0%	25.53	0.721	4/1/2049	26.25	2049
5/1/2049	25.53	23.39	0%	25.53	0.721	5/1/2049	26.25	2049
6/1/2049	25.53	23.42	0%	25.53	0.721	6/1/2049	26.25	2049
7/1/2049	25.53	23.32	0%	25.53	0.721	7/1/2049	26.25	2049
8/1/2049	25.53	23.32	0%	25.53	0.721	8/1/2049	26.25	2049
9/1/2049	25.53	24.29	0%	25.53	0.721	9/1/2049	26.25	2049
10/1/2049	25.53	23.83	0%	25.53	0.721	10/1/2049	26.25	2049
11/1/2049	25.53	23.43	0%	25.53	0.721	11/1/2049	26.25	2049
12/1/2049	25.53	23.48	0%	25.53	0.721	12/1/2049	26.25	2049
1/1/2050	25.53	23.73	0%	25.53	0.721	1/1/2050	26.25	2050
2/1/2050	25.53	23.76	0%	25.53	0.721	2/1/2050	26.25	2050
3/1/2050	25.53	23.79	0%	25.53	0.731	3/1/2050	26.27	2050
4/1/2050	25.53	23.83	0%	25.53	0.731	4/1/2050	26.27	2050
5/1/2050	25.53	23.86	0%	25.53	0.731	5/1/2050	26.27	2050
6/1/2050	25.53	23.89	0%	25.53	0.731	6/1/2050	26.27	2050
7/1/2050	25.53	23.78	0%	25.53	0.731	7/1/2050	26.27	2050
8/1/2050	25.53	23.78	0%	25.53	0.731	8/1/2050	26.27	2050
9/1/2050	25.53	24.77	0%	25.53	0.731	9/1/2050	26.27	2050
10/1/2050	25.53	24.31	0%	25.53	0.731	10/1/2050	26.27	2050
11/1/2050	25.53	23.90	0%	25.53	0.731	11/1/2050	26.27	2050
12/1/2050	25.53	23.95	0%	25.53	0.731	12/1/2050	26.27	2050

Bartow CC

PETROLEUM PRODUCT PRICE FORECAST DATA

Date	Petroleum Product Price Forecast - Gulf Coast	TCM	Blend TCM/ Fundamental (%)	Blend TCM/ Fundamental ($)	Bartow CC Transport ($/MMBtu)
1/1/2019	14.62	12.93	100%	12.93	0.414
2/1/2019	14.62	13.87	100%	13.87	0.414
3/1/2019	14.62	13.78	100%	13.78	0.414
4/1/2019	14.62	14.33	100%	14.33	0.414
5/1/2019	14.62	14.29	100%	14.29	0.414
6/1/2019	14.62	13.17	100%	13.17	0.414
7/1/2019	14.62	13.86	100%	13.86	0.414
8/1/2019	14.62	13.04	100%	13.04	0.414
9/1/2019	14.62	13.58	100%	13.58	0.414
10/1/2019	14.62	13.31	100%	13.31	0.414
11/1/2019	14.62	13.08	100%	13.08	0.414
12/1/2019	14.62	13.09	100%	13.09	0.414
1/1/2020	13.66	13.80	100%	13.80	0.420
2/1/2020	13.66	14.09	100%	14.09	0.420
3/1/2020	13.66	14.60	100%	14.60	0.420
4/1/2020	13.66	14.42	100%	14.42	0.420
5/1/2020	13.66	13.11	100%	13.11	0.420
6/1/2020	13.66	13.60	100%	13.60	0.420
7/1/2020	13.66	12.98	100%	12.98	0.420
8/1/2020	13.66	13.82	100%	13.82	0.420
9/1/2020	13.66	13.64	100%	13.64	0.420
10/1/2020	13.66	13.38	100%	13.38	0.420
11/1/2020	13.66	13.16	100%	13.16	0.420
12/1/2020	13.66	13.18	100%	13.18	0.420
1/1/2021	13.38	13.24	100%	13.24	0.426
2/1/2021	13.38	13.26	100%	13.26	0.426
3/1/2021	13.38	13.28	100%	13.28	0.426
4/1/2021	13.38	13.30	100%	13.30	0.426
5/1/2021	13.38	13.31	100%	13.31	0.426
6/1/2021	13.38	13.33	100%	13.33	0.426
7/1/2021	13.38	13.33	100%	13.33	0.426
8/1/2021	13.38	13.33	100%	13.33	0.426
9/1/2021	13.38	13.89	100%	13.89	0.426
10/1/2021	13.38	13.63	100%	13.63	0.426
11/1/2021	13.38	13.40	100%	13.40	0.426
12/1/2021	13.38	13.42	96%	13.42	0.426
1/1/2022	13.44	13.57	92%	13.56	0.433
2/1/2022	13.44	13.59	88%	13.57	0.433
3/1/2022	13.44	13.61	84%	13.58	0.433
4/1/2022	13.44	13.62	80%	13.59	0.433
5/1/2022	13.44	13.64	76%	13.59	0.433
6/1/2022	13.44	13.66	72%	13.60	0.433
7/1/2022	13.44	13.66	68%	13.59	0.433
8/1/2022	13.44	13.66	64%	13.58	0.433
9/1/2022	13.44	14.23	60%	13.92	0.433
10/1/2022	13.44	13.96	56%	13.73	0.433
11/1/2022	13.44	13.73	52%	13.59	0.433
12/1/2022	13.44	13.75	48%	13.59	0.433
1/1/2023	13.75	13.90	44%	13.82	0.439
2/1/2023	13.75	13.92	40%	13.82	0.439
3/1/2023	13.75	13.94	36%	13.82	0.439
4/1/2023	13.75	13.96	32%	13.82	0.439
5/1/2023	13.75	13.98	28%	13.81	0.439
6/1/2023	13.75	13.99	24%	13.81	0.439
7/1/2023	13.75	13.93	20%	13.79	0.439
8/1/2023	13.75	13.93	16%	13.78	0.439
9/1/2023	13.75	14.51	12%	13.84	0.439
10/1/2023	13.75	14.24	8%	13.79	0.439
11/1/2023	13.75	14.00	4%	13.76	0.439
12/1/2023	13.75	14.03	0%	13.75	0.439
1/1/2024	14.08	14.18	0%	14.08	0.446
2/1/2024	14.08	14.20	0%	14.08	0.446
3/1/2024	14.08	14.22	0%	14.08	0.446
4/1/2024	14.08	14.24	0%	14.08	0.446
5/1/2024	14.08	14.26	0%	14.08	0.446

PROSYM INPUT

Date	nomianl$/MMBtu
1/1/2019	13.34
2/1/2019	14.28
3/1/2019	14.20
4/1/2019	14.74
5/1/2019	14.70
6/1/2019	13.58
7/1/2019	14.28
8/1/2019	13.46
9/1/2019	13.99
10/1/2019	13.73
11/1/2019	13.49
12/1/2019	13.50
1/1/2020	14.22
2/1/2020	14.51
3/1/2020	15.02
4/1/2020	14.84
5/1/2020	13.53
6/1/2020	14.02
7/1/2020	13.40
8/1/2020	14.24
9/1/2020	14.06
10/1/2020	13.80
11/1/2020	13.58
12/1/2020	13.60
1/1/2021	13.67
2/1/2021	13.69
3/1/2021	13.71
4/1/2021	13.72
5/1/2021	13.74
6/1/2021	13.76
7/1/2021	13.76
8/1/2021	13.76
9/1/2021	14.31
10/1/2021	14.05
11/1/2021	13.83
12/1/2021	13.85
1/1/2022	13.99
2/1/2022	14.00
3/1/2022	14.01
4/1/2022	14.02
5/1/2022	14.03
6/1/2022	14.03
7/1/2022	14.02
8/1/2022	14.01
9/1/2022	14.35
10/1/2022	14.17
11/1/2022	14.02
12/1/2022	14.03
1/1/2023	14.26
2/1/2023	14.26
3/1/2023	14.26
4/1/2023	14.26
5/1/2023	14.25
6/1/2023	14.25
7/1/2023	14.23
8/1/2023	14.22
9/1/2023	14.28
10/1/2023	14.23
11/1/2023	14.20
12/1/2023	14.19
1/1/2024	14.53
2/1/2024	14.53
3/1/2024	14.53
4/1/2024	14.53
5/1/2024	14.53

ANNUAL AVERAGE

		Bartow CC
2019	2019	13.94
2019	2020	14.07
2019	2021	13.82
2019	2022	14.06
2019	2023	14.24
2019	2024	14.53
2019	2025	14.89
2019	2026	15.45
2019	2027	16.11
2019	2028	16.86
2019	2029	17.55
2019	2030	17.98
2020	2031	18.39
2020	2032	18.80
2020	2033	19.24
2020	2034	19.67
2020	2035	20.12
2020	2036	20.58
2020	2037	21.06
2020	2038	21.46
2020	2039	21.84
2020	2040	21.99
2020	2041	22.55
2020	2042	23.13
2021	2043	23.33
2021	2044	23.93
2021	2045	24.12
2021	2046	24.74
2021	2047	25.35
2021	2048	25.54
2021	2049	26.18
2021	2050	26.19
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6/1/2024	14.08	14.27	0%	14.08	0.446	6/1/2024	14.53	2024
7/1/2024	14.08	14.21	0%	14.08	0.446	7/1/2024	14.53	2024
8/1/2024	14.08	14.21	0%	14.08	0.446	8/1/2024	14.53	2024
9/1/2024	14.08	14.80	0%	14.08	0.446	9/1/2024	14.53	2024
10/1/2024	14.08	14.53	0%	14.08	0.446	10/1/2024	14.53	2024
11/1/2024	14.08	14.28	0%	14.08	0.446	11/1/2024	14.53	2024
12/1/2024	14.08	14.31	0%	14.08	0.446	12/1/2024	14.53	2024
1/1/2025	14.43	14.47	0%	14.43	0.452	1/1/2025	14.89	2025
2/1/2025	14.43	14.48	0%	14.43	0.452	2/1/2025	14.89	2025
3/1/2025	14.43	14.50	0%	14.43	0.452	3/1/2025	14.89	2025
4/1/2025	14.43	14.52	0%	14.43	0.452	4/1/2025	14.89	2025
5/1/2025	14.43	14.54	0%	14.43	0.452	5/1/2025	14.89	2025
6/1/2025	14.43	14.56	0%	14.43	0.452	6/1/2025	14.89	2025
7/1/2025	14.43	14.50	0%	14.43	0.452	7/1/2025	14.89	2025
8/1/2025	14.43	14.50	0%	14.43	0.452	8/1/2025	14.89	2025
9/1/2025	14.43	15.10	0%	14.43	0.452	9/1/2025	14.89	2025
10/1/2025	14.43	14.82	0%	14.43	0.452	10/1/2025	14.89	2025
11/1/2025	14.43	14.57	0%	14.43	0.452	11/1/2025	14.89	2025
12/1/2025	14.43	14.60	0%	14.43	0.452	12/1/2025	14.89	2025
1/1/2026	15.00	14.75	0%	15.00	0.459	1/1/2026	15.45	2026
2/1/2026	15.00	14.77	0%	15.00	0.459	2/1/2026	15.45	2026
3/1/2026	15.00	14.79	0%	15.00	0.459	3/1/2026	15.45	2026
4/1/2026	15.00	14.81	0%	15.00	0.459	4/1/2026	15.45	2026
5/1/2026	15.00	14.83	0%	15.00	0.459	5/1/2026	15.45	2026
6/1/2026	15.00	14.85	0%	15.00	0.459	6/1/2026	15.45	2026
7/1/2026	15.00	14.79	0%	15.00	0.459	7/1/2026	15.45	2026
8/1/2026	15.00	14.79	0%	15.00	0.459	8/1/2026	15.45	2026
9/1/2026	15.00	15.40	0%	15.00	0.459	9/1/2026	15.45	2026
10/1/2026	15.00	15.11	0%	15.00	0.459	10/1/2026	15.45	2026
11/1/2026	15.00	14.86	0%	15.00	0.459	11/1/2026	15.45	2026
12/1/2026	15.00	14.89	0%	15.00	0.459	12/1/2026	15.45	2026
1/1/2027	15.64	15.05	0%	15.64	0.466	1/1/2027	16.11	2027
2/1/2027	15.64	15.07	0%	15.64	0.466	2/1/2027	16.11	2027
3/1/2027	15.64	15.09	0%	15.64	0.466	3/1/2027	16.11	2027
4/1/2027	15.64	15.11	0%	15.64	0.466	4/1/2027	16.11	2027
5/1/2027	15.64	15.13	0%	15.64	0.466	5/1/2027	16.11	2027
6/1/2027	15.64	15.15	0%	15.64	0.466	6/1/2027	16.11	2027
7/1/2027	15.64	15.08	0%	15.64	0.466	7/1/2027	16.11	2027
8/1/2027	15.64	15.08	0%	15.64	0.466	8/1/2027	16.11	2027
9/1/2027	15.64	15.71	0%	15.64	0.466	9/1/2027	16.11	2027
10/1/2027	15.64	15.42	0%	15.64	0.466	10/1/2027	16.11	2027
11/1/2027	15.64	15.16	0%	15.64	0.466	11/1/2027	16.11	2027
12/1/2027	15.64	15.19	0%	15.64	0.466	12/1/2027	16.11	2027
1/1/2028	16.39	15.35	0%	16.39	0.473	1/1/2028	16.86	2028
2/1/2028	16.39	15.37	0%	16.39	0.473	2/1/2028	16.86	2028
3/1/2028	16.39	15.39	0%	16.39	0.473	3/1/2028	16.86	2028
4/1/2028	16.39	15.41	0%	16.39	0.473	4/1/2028	16.86	2028
5/1/2028	16.39	15.43	0%	16.39	0.473	5/1/2028	16.86	2028
6/1/2028	16.39	15.45	0%	16.39	0.473	6/1/2028	16.86	2028
7/1/2028	16.39	15.38	0%	16.39	0.473	7/1/2028	16.86	2028
8/1/2028	16.39	15.38	0%	16.39	0.473	8/1/2028	16.86	2028
9/1/2028	16.39	16.03	0%	16.39	0.473	9/1/2028	16.86	2028
10/1/2028	16.39	15.73	0%	16.39	0.473	10/1/2028	16.86	2028
11/1/2028	16.39	15.46	0%	16.39	0.473	11/1/2028	16.86	2028
12/1/2028	16.39	15.49	0%	16.39	0.473	12/1/2028	16.86	2028
1/1/2029	17.07	15.66	0%	17.07	0.480	1/1/2029	17.55	2029
2/1/2029	17.07	15.68	0%	17.07	0.480	2/1/2029	17.55	2029
3/1/2029	17.07	15.70	0%	17.07	0.480	3/1/2029	17.55	2029
4/1/2029	17.07	15.72	0%	17.07	0.480	4/1/2029	17.55	2029
5/1/2029	17.07	15.74	0%	17.07	0.480	5/1/2029	17.55	2029
6/1/2029	17.07	15.76	0%	17.07	0.480	6/1/2029	17.55	2029
7/1/2029	17.07	15.69	0%	17.07	0.480	7/1/2029	17.55	2029
8/1/2029	17.07	15.69	0%	17.07	0.480	8/1/2029	17.55	2029
9/1/2029	17.07	16.35	0%	17.07	0.480	9/1/2029	17.55	2029
10/1/2029	17.07	16.04	0%	17.07	0.480	10/1/2029	17.55	2029
11/1/2029	17.07	15.77	0%	17.07	0.480	11/1/2029	17.55	2029
12/1/2029	17.07	15.80	0%	17.07	0.480	12/1/2029	17.55	2029
1/1/2030	17.50	15.97	0%	17.50	0.487	1/1/2030	17.98	2030
2/1/2030	17.50	15.99	0%	17.50	0.487	2/1/2030	17.98	2030
3/1/2030	17.50	16.01	0%	17.50	0.487	3/1/2030	17.98	2030
4/1/2030	17.50	16.03	0%	17.50	0.487	4/1/2030	17.98	2030

5/1/2030	17.50	16.05	0%	17.50	0.487	5/1/2030	17.98	2030
6/1/2030	17.50	16.08	0%	17.50	0.487	6/1/2030	17.98	2030
7/1/2030	17.50	16.00	0%	17.50	0.487	7/1/2030	17.98	2030
8/1/2030	17.50	16.00	0%	17.50	0.487	8/1/2030	17.98	2030
9/1/2030	17.50	16.67	0%	17.50	0.487	9/1/2030	17.98	2030
10/1/2030	17.50	16.36	0%	17.50	0.487	10/1/2030	17.98	2030
11/1/2030	17.50	16.09	0%	17.50	0.487	11/1/2030	17.98	2030
12/1/2030	17.50	16.12	0%	17.50	0.487	12/1/2030	17.98	2030
1/1/2031	17.89	16.29	0%	17.89	0.495	1/1/2031	18.39	2031
2/1/2031	17.89	16.31	0%	17.89	0.495	2/1/2031	18.39	2031
3/1/2031	17.89	16.33	0%	17.89	0.495	3/1/2031	18.39	2031
4/1/2031	17.89	16.35	0%	17.89	0.495	4/1/2031	18.39	2031
5/1/2031	17.89	16.38	0%	17.89	0.495	5/1/2031	18.39	2031
6/1/2031	17.89	16.40	0%	17.89	0.495	6/1/2031	18.39	2031
7/1/2031	17.89	16.32	0%	17.89	0.495	7/1/2031	18.39	2031
8/1/2031	17.89	16.32	0%	17.89	0.495	8/1/2031	18.39	2031
9/1/2031	17.89	17.01	0%	17.89	0.495	9/1/2031	18.39	2031
10/1/2031	17.89	16.69	0%	17.89	0.495	10/1/2031	18.39	2031
11/1/2031	17.89	16.41	0%	17.89	0.495	11/1/2031	18.39	2031
12/1/2031	17.89	16.44	0%	17.89	0.495	12/1/2031	18.39	2031
1/1/2032	18.30	16.62	0%	18.30	0.502	1/1/2032	18.80	2032
2/1/2032	18.30	16.64	0%	18.30	0.502	2/1/2032	18.80	2032
3/1/2032	18.30	16.66	0%	18.30	0.502	3/1/2032	18.80	2032
4/1/2032	18.30	16.68	0%	18.30	0.502	4/1/2032	18.80	2032
5/1/2032	18.30	16.70	0%	18.30	0.502	5/1/2032	18.80	2032
6/1/2032	18.30	16.72	0%	18.30	0.502	6/1/2032	18.80	2032
7/1/2032	18.30	16.65	0%	18.30	0.502	7/1/2032	18.80	2032
8/1/2032	18.30	16.65	0%	18.30	0.502	8/1/2032	18.80	2032
9/1/2032	18.30	17.35	0%	18.30	0.502	9/1/2032	18.80	2032
10/1/2032	18.30	17.02	0%	18.30	0.502	10/1/2032	18.80	2032
11/1/2032	18.30	16.74	0%	18.30	0.502	11/1/2032	18.80	2032
12/1/2032	18.30	16.77	0%	18.30	0.502	12/1/2032	18.80	2032
1/1/2033	18.73	16.95	0%	18.73	0.510	1/1/2033	19.24	2033
2/1/2033	18.73	16.97	0%	18.73	0.510	2/1/2033	19.24	2033
3/1/2033	18.73	16.99	0%	18.73	0.510	3/1/2033	19.24	2033
4/1/2033	18.73	17.01	0%	18.73	0.510	4/1/2033	19.24	2033
5/1/2033	18.73	17.04	0%	18.73	0.510	5/1/2033	19.24	2033
6/1/2033	18.73	17.06	0%	18.73	0.510	6/1/2033	19.24	2033
7/1/2033	18.73	16.98	0%	18.73	0.510	7/1/2033	19.24	2033
8/1/2033	18.73	16.98	0%	18.73	0.510	8/1/2033	19.24	2033
9/1/2033	18.73	17.69	0%	18.73	0.510	9/1/2033	19.24	2033
10/1/2033	18.73	17.36	0%	18.73	0.510	10/1/2033	19.24	2033
11/1/2033	18.73	17.07	0%	18.73	0.510	11/1/2033	19.24	2033
12/1/2033	18.73	17.10	0%	18.73	0.510	12/1/2033	19.24	2033
1/1/2034	19.16	17.29	0%	19.16	0.517	1/1/2034	19.67	2034
2/1/2034	19.16	17.31	0%	19.16	0.517	2/1/2034	19.67	2034
3/1/2034	19.16	17.33	0%	19.16	0.517	3/1/2034	19.67	2034
4/1/2034	19.16	17.36	0%	19.16	0.517	4/1/2034	19.67	2034
5/1/2034	19.16	17.38	0%	19.16	0.517	5/1/2034	19.67	2034
6/1/2034	19.16	17.40	0%	19.16	0.517	6/1/2034	19.67	2034
7/1/2034	19.16	17.32	0%	19.16	0.517	7/1/2034	19.67	2034
8/1/2034	19.16	17.32	0%	19.16	0.517	8/1/2034	19.67	2034
9/1/2034	19.16	18.05	0%	19.16	0.517	9/1/2034	19.67	2034
10/1/2034	19.16	17.71	0%	19.16	0.517	10/1/2034	19.67	2034
11/1/2034	19.16	17.41	0%	19.16	0.517	11/1/2034	19.67	2034
12/1/2034	19.16	17.44	0%	19.16	0.517	12/1/2034	19.67	2034
1/1/2035	19.60	17.63	0%	19.60	0.525	1/1/2035	20.12	2035
2/1/2035	19.60	17.66	0%	19.60	0.525	2/1/2035	20.12	2035
3/1/2035	19.60	17.68	0%	19.60	0.525	3/1/2035	20.12	2035
4/1/2035	19.60	17.70	0%	19.60	0.525	4/1/2035	20.12	2035
5/1/2035	19.60	17.73	0%	19.60	0.525	5/1/2035	20.12	2035
6/1/2035	19.60	17.75	0%	19.60	0.525	6/1/2035	20.12	2035
7/1/2035	19.60	17.67	0%	19.60	0.525	7/1/2035	20.12	2035
8/1/2035	19.60	17.67	0%	19.60	0.525	8/1/2035	20.12	2035
9/1/2035	19.60	18.41	0%	19.60	0.525	9/1/2035	20.12	2035
10/1/2035	19.60	18.06	0%	19.60	0.525	10/1/2035	20.12	2035
11/1/2035	19.60	17.76	0%	19.60	0.525	11/1/2035	20.12	2035
12/1/2035	19.60	17.79	0%	19.60	0.525	12/1/2035	20.12	2035
1/1/2036	20.05	17.99	0%	20.05	0.525	1/1/2036	20.58	2036
2/1/2036	20.05	18.01	0%	20.05	0.525	2/1/2036	20.58	2036
3/1/2036	20.05	18.03	0%	20.05	0.533	3/1/2036	20.58	2036

4/1/2036	20.05	18.06	0%	20.05	0.533	4/1/2036	20.58	2036
5/1/2036	20.05	18.08	0%	20.05	0.533	5/1/2036	20.58	2036
6/1/2036	20.05	18.10	0%	20.05	0.533	6/1/2036	20.58	2036
7/1/2036	20.05	18.02	0%	20.05	0.533	7/1/2036	20.58	2036
8/1/2036	20.05	18.02	0%	20.05	0.533	8/1/2036	20.58	2036
9/1/2036	20.05	18.78	0%	20.05	0.533	9/1/2036	20.58	2036
10/1/2036	20.05	18.42	0%	20.05	0.533	10/1/2036	20.58	2036
11/1/2036	20.05	18.12	0%	20.05	0.533	11/1/2036	20.58	2036
12/1/2036	20.05	18.15	0%	20.05	0.533	12/1/2036	20.58	2036
1/1/2037	20.52	18.35	0%	20.52	0.533	1/1/2037	21.05	2037
2/1/2037	20.52	18.37	0%	20.52	0.533	2/1/2037	21.05	2037
3/1/2037	20.52	18.39	0%	20.52	0.541	3/1/2037	21.06	2037
4/1/2037	20.52	18.42	0%	20.52	0.541	4/1/2037	21.06	2037
5/1/2037	20.52	18.44	0%	20.52	0.541	5/1/2037	21.06	2037
6/1/2037	20.52	18.47	0%	20.52	0.541	6/1/2037	21.06	2037
7/1/2037	20.52	18.38	0%	20.52	0.541	7/1/2037	21.06	2037
8/1/2037	20.52	18.38	0%	20.52	0.541	8/1/2037	21.06	2037
9/1/2037	20.52	19.15	0%	20.52	0.541	9/1/2037	21.06	2037
10/1/2037	20.52	18.79	0%	20.52	0.541	10/1/2037	21.06	2037
11/1/2037	20.52	18.48	0%	20.52	0.541	11/1/2037	21.06	2037
12/1/2037	20.52	18.51	0%	20.52	0.541	12/1/2037	21.06	2037
1/1/2038	20.91	18.71	0%	20.91	0.541	1/1/2038	21.45	2038
2/1/2038	20.91	18.74	0%	20.91	0.541	2/1/2038	21.45	2038
3/1/2038	20.91	18.76	0%	20.91	0.549	3/1/2038	21.46	2038
4/1/2038	20.91	18.79	0%	20.91	0.549	4/1/2038	21.46	2038
5/1/2038	20.91	18.81	0%	20.91	0.549	5/1/2038	21.46	2038
6/1/2038	20.91	18.83	0%	20.91	0.549	6/1/2038	21.46	2038
7/1/2038	20.91	18.75	0%	20.91	0.549	7/1/2038	21.46	2038
8/1/2038	20.91	18.75	0%	20.91	0.549	8/1/2038	21.46	2038
9/1/2038	20.91	19.53	0%	20.91	0.549	9/1/2038	21.46	2038
10/1/2038	20.91	19.17	0%	20.91	0.549	10/1/2038	21.46	2038
11/1/2038	20.91	18.85	0%	20.91	0.549	11/1/2038	21.46	2038
12/1/2038	20.91	18.88	0%	20.91	0.549	12/1/2038	21.46	2038
1/1/2039	21.29	19.09	0%	21.29	0.549	1/1/2039	21.83	2039
2/1/2039	21.29	19.11	0%	21.29	0.549	2/1/2039	21.83	2039
3/1/2039	21.29	19.14	0%	21.29	0.557	3/1/2039	21.84	2039
4/1/2039	21.29	19.16	0%	21.29	0.557	4/1/2039	21.84	2039
5/1/2039	21.29	19.19	0%	21.29	0.557	5/1/2039	21.84	2039
6/1/2039	21.29	19.21	0%	21.29	0.557	6/1/2039	21.84	2039
7/1/2039	21.29	19.13	0%	21.29	0.557	7/1/2039	21.84	2039
8/1/2039	21.29	19.13	0%	21.29	0.557	8/1/2039	21.84	2039
9/1/2039	21.29	19.93	0%	21.29	0.557	9/1/2039	21.84	2039
10/1/2039	21.29	19.55	0%	21.29	0.557	10/1/2039	21.84	2039
11/1/2039	21.29	19.22	0%	21.29	0.557	11/1/2039	21.84	2039
12/1/2039	21.29	19.26	0%	21.29	0.557	12/1/2039	21.84	2039
1/1/2040	21.42	19.47	0%	21.42	0.557	1/1/2040	21.98	2040
2/1/2040	21.42	19.49	0%	21.42	0.557	2/1/2040	21.98	2040
3/1/2040	21.42	19.52	0%	21.42	0.566	3/1/2040	21.99	2040
4/1/2040	21.42	19.54	0%	21.42	0.566	4/1/2040	21.99	2040
5/1/2040	21.42	19.57	0%	21.42	0.566	5/1/2040	21.99	2040
6/1/2040	21.42	19.60	0%	21.42	0.566	6/1/2040	21.99	2040
7/1/2040	21.42	19.51	0%	21.42	0.566	7/1/2040	21.99	2040
8/1/2040	21.42	19.51	0%	21.42	0.566	8/1/2040	21.99	2040
9/1/2040	21.42	20.32	0%	21.42	0.566	9/1/2040	21.99	2040
10/1/2040	21.42	19.94	0%	21.42	0.566	10/1/2040	21.99	2040
11/1/2040	21.42	19.61	0%	21.42	0.566	11/1/2040	21.99	2040
12/1/2040	21.42	19.64	0%	21.42	0.566	12/1/2040	21.99	2040
1/1/2041	21.98	19.86	0%	21.98	0.566	1/1/2041	22.54	2041
2/1/2041	21.98	19.88	0%	21.98	0.566	2/1/2041	22.54	2041
3/1/2041	21.98	19.91	0%	21.98	0.574	3/1/2041	22.55	2041
4/1/2041	21.98	19.94	0%	21.98	0.574	4/1/2041	22.55	2041
5/1/2041	21.98	19.96	0%	21.98	0.574	5/1/2041	22.55	2041
6/1/2041	21.98	19.99	0%	21.98	0.574	6/1/2041	22.55	2041
7/1/2041	21.98	19.90	0%	21.98	0.574	7/1/2041	22.55	2041
8/1/2041	21.98	19.90	0%	21.98	0.574	8/1/2041	22.55	2041
9/1/2041	21.98	20.73	0%	21.98	0.574	9/1/2041	22.55	2041
10/1/2041	21.98	20.34	0%	21.98	0.574	10/1/2041	22.55	2041
11/1/2041	21.98	20.00	0%	21.98	0.574	11/1/2041	22.55	2041
12/1/2041	21.98	20.04	0%	21.98	0.574	12/1/2041	22.55	2041
1/1/2042	22.55	20.25	0%	22.55	0.574	1/1/2042	23.12	2042
2/1/2042	22.55	20.28	0%	22.55	0.574	2/1/2042	23.12	2042

3/1/2042	22.55	20.31	0%	22.55	0.583	3/1/2042	23.13	2042
4/1/2042	22.55	20.33	0%	22.55	0.583	4/1/2042	23.13	2042
5/1/2042	22.55	20.36	0%	22.55	0.583	5/1/2042	23.13	2042
6/1/2042	22.55	20.39	0%	22.55	0.583	6/1/2042	23.13	2042
7/1/2042	22.55	20.30	0%	22.55	0.583	7/1/2042	23.13	2042
8/1/2042	22.55	20.30	0%	22.55	0.583	8/1/2042	23.13	2042
9/1/2042	22.55	21.14	0%	22.55	0.583	9/1/2042	23.13	2042
10/1/2042	22.55	20.75	0%	22.55	0.583	10/1/2042	23.13	2042
11/1/2042	22.55	20.40	0%	22.55	0.583	11/1/2042	23.13	2042
12/1/2042	22.55	20.44	0%	22.55	0.583	12/1/2042	23.13	2042
1/1/2043	22.74	20.66	0%	22.74	0.583	1/1/2043	23.32	2043
2/1/2043	22.74	20.69	0%	22.74	0.583	2/1/2043	23.32	2043
3/1/2043	22.74	20.71	0%	22.74	0.591	3/1/2043	23.33	2043
4/1/2043	22.74	20.74	0%	22.74	0.591	4/1/2043	23.33	2043
5/1/2043	22.74	20.77	0%	22.74	0.591	5/1/2043	23.33	2043
6/1/2043	22.74	20.80	0%	22.74	0.591	6/1/2043	23.33	2043
7/1/2043	22.74	20.70	0%	22.74	0.591	7/1/2043	23.33	2043
8/1/2043	22.74	20.70	0%	22.74	0.591	8/1/2043	23.33	2043
9/1/2043	22.74	21.57	0%	22.74	0.591	9/1/2043	23.33	2043
10/1/2043	22.74	21.16	0%	22.74	0.591	10/1/2043	23.33	2043
11/1/2043	22.74	20.81	0%	22.74	0.591	11/1/2043	23.33	2043
12/1/2043	22.74	20.85	0%	22.74	0.591	12/1/2043	23.33	2043
1/1/2044	23.33	21.07	0%	23.33	0.591	1/1/2044	23.92	2044
2/1/2044	23.33	21.10	0%	23.33	0.591	2/1/2044	23.92	2044
3/1/2044	23.33	21.13	0%	23.33	0.600	3/1/2044	23.93	2044
4/1/2044	23.33	21.16	0%	23.33	0.600	4/1/2044	23.93	2044
5/1/2044	23.33	21.18	0%	23.33	0.600	5/1/2044	23.93	2044
6/1/2044	23.33	21.21	0%	23.33	0.600	6/1/2044	23.93	2044
7/1/2044	23.33	21.12	0%	23.33	0.600	7/1/2044	23.93	2044
8/1/2044	23.33	21.12	0%	23.33	0.600	8/1/2044	23.93	2044
9/1/2044	23.33	22.00	0%	23.33	0.600	9/1/2044	23.93	2044
10/1/2044	23.33	21.59	0%	23.33	0.600	10/1/2044	23.93	2044
11/1/2044	23.33	21.22	0%	23.33	0.600	11/1/2044	23.93	2044
12/1/2044	23.33	21.26	0%	23.33	0.600	12/1/2044	23.93	2044
1/1/2045	23.52	21.49	0%	23.52	0.600	1/1/2045	24.12	2045
2/1/2045	23.52	21.52	0%	23.52	0.600	2/1/2045	24.12	2045
3/1/2045	23.52	21.55	0%	23.52	0.609	3/1/2045	24.13	2045
4/1/2045	23.52	21.58	0%	23.52	0.609	4/1/2045	24.13	2045
5/1/2045	23.52	21.61	0%	23.52	0.609	5/1/2045	24.13	2045
6/1/2045	23.52	21.64	0%	23.52	0.609	6/1/2045	24.13	2045
7/1/2045	23.52	21.54	0%	23.52	0.609	7/1/2045	24.13	2045
8/1/2045	23.52	21.54	0%	23.52	0.609	8/1/2045	24.13	2045
9/1/2045	23.52	22.44	0%	23.52	0.609	9/1/2045	24.13	2045
10/1/2045	23.52	22.02	0%	23.52	0.609	10/1/2045	24.13	2045
11/1/2045	23.52	21.65	0%	23.52	0.609	11/1/2045	24.13	2045
12/1/2045	23.52	21.69	0%	23.52	0.609	12/1/2045	24.13	2045
1/1/2046	24.12	21.92	0%	24.12	0.609	1/1/2046	24.73	2046
2/1/2046	24.12	21.95	0%	24.12	0.609	2/1/2046	24.73	2046
3/1/2046	24.12	21.98	0%	24.12	0.618	3/1/2046	24.74	2046
4/1/2046	24.12	22.01	0%	24.12	0.618	4/1/2046	24.74	2046
5/1/2046	24.12	22.04	0%	24.12	0.618	5/1/2046	24.74	2046
6/1/2046	24.12	22.07	0%	24.12	0.618	6/1/2046	24.74	2046
7/1/2046	24.12	21.97	0%	24.12	0.618	7/1/2046	24.74	2046
8/1/2046	24.12	21.97	0%	24.12	0.618	8/1/2046	24.74	2046
9/1/2046	24.12	22.89	0%	24.12	0.618	9/1/2046	24.74	2046
10/1/2046	24.12	22.46	0%	24.12	0.618	10/1/2046	24.74	2046
11/1/2046	24.12	22.08	0%	24.12	0.618	11/1/2046	24.74	2046
12/1/2046	24.12	22.12	0%	24.12	0.618	12/1/2046	24.74	2046
1/1/2047	24.73	22.36	0%	24.73	0.618	1/1/2047	25.35	2047
2/1/2047	24.73	22.39	0%	24.73	0.618	2/1/2047	25.35	2047
3/1/2047	24.73	22.42	0%	24.73	0.628	3/1/2047	25.36	2047
4/1/2047	24.73	22.45	0%	24.73	0.628	4/1/2047	25.36	2047
5/1/2047	24.73	22.48	0%	24.73	0.628	5/1/2047	25.36	2047
6/1/2047	24.73	22.51	0%	24.73	0.628	6/1/2047	25.36	2047
7/1/2047	24.73	22.41	0%	24.73	0.628	7/1/2047	25.36	2047
8/1/2047	24.73	22.41	0%	24.73	0.628	8/1/2047	25.36	2047
9/1/2047	24.73	23.35	0%	24.73	0.628	9/1/2047	25.36	2047
10/1/2047	24.73	22.91	0%	24.73	0.628	10/1/2047	25.36	2047
11/1/2047	24.73	22.52	0%	24.73	0.628	11/1/2047	25.36	2047
12/1/2047	24.73	22.57	0%	24.73	0.628	12/1/2047	25.36	2047
1/1/2048	24.91	22.81	0%	24.91	0.628	1/1/2048	25.53	2048

2/1/2048	24.91	22.84	0%	24.91	0.628	2/1/2048	25.53	2048
3/1/2048	24.91	22.87	0%	24.91	0.637	3/1/2048	25.54	2048
4/1/2048	24.91	22.90	0%	24.91	0.637	4/1/2048	25.54	2048
5/1/2048	24.91	22.93	0%	24.91	0.637	5/1/2048	25.54	2048
6/1/2048	24.91	22.96	0%	24.91	0.637	6/1/2048	25.54	2048
7/1/2048	24.91	22.86	0%	24.91	0.637	7/1/2048	25.54	2048
8/1/2048	24.91	22.86	0%	24.91	0.637	8/1/2048	25.54	2048
9/1/2048	24.91	23.81	0%	24.91	0.637	9/1/2048	25.54	2048
10/1/2048	24.91	23.37	0%	24.91	0.637	10/1/2048	25.54	2048
11/1/2048	24.91	22.97	0%	24.91	0.637	11/1/2048	25.54	2048
12/1/2048	24.91	23.02	0%	24.91	0.637	12/1/2048	25.54	2048
1/1/2049	25.53	23.27	0%	25.53	0.637	1/1/2049	26.17	2049
2/1/2049	25.53	23.30	0%	25.53	0.637	2/1/2049	26.17	2049
3/1/2049	25.53	23.33	0%	25.53	0.647	3/1/2049	26.18	2049
4/1/2049	25.53	23.36	0%	25.53	0.647	4/1/2049	26.18	2049
5/1/2049	25.53	23.39	0%	25.53	0.647	5/1/2049	26.18	2049
6/1/2049	25.53	23.42	0%	25.53	0.647	6/1/2049	26.18	2049
7/1/2049	25.53	23.32	0%	25.53	0.647	7/1/2049	26.18	2049
8/1/2049	25.53	23.32	0%	25.53	0.647	8/1/2049	26.18	2049
9/1/2049	25.53	24.29	0%	25.53	0.647	9/1/2049	26.18	2049
10/1/2049	25.53	23.83	0%	25.53	0.647	10/1/2049	26.18	2049
11/1/2049	25.53	23.43	0%	25.53	0.647	11/1/2049	26.18	2049
12/1/2049	25.53	23.48	0%	25.53	0.647	12/1/2049	26.18	2049
1/1/2050	25.53	23.73	0%	25.53	0.647	1/1/2050	26.18	2050
2/1/2050	25.53	23.76	0%	25.53	0.647	2/1/2050	26.18	2050
3/1/2050	25.53	23.79	0%	25.53	0.656	3/1/2050	26.19	2050
4/1/2050	25.53	23.83	0%	25.53	0.656	4/1/2050	26.19	2050
5/1/2050	25.53	23.86	0%	25.53	0.656	5/1/2050	26.19	2050
6/1/2050	25.53	23.89	0%	25.53	0.656	6/1/2050	26.19	2050
7/1/2050	25.53	23.78	0%	25.53	0.656	7/1/2050	26.19	2050
8/1/2050	25.53	23.78	0%	25.53	0.656	8/1/2050	26.19	2050
9/1/2050	25.53	24.77	0%	25.53	0.656	9/1/2050	26.19	2050
10/1/2050	25.53	24.31	0%	25.53	0.656	10/1/2050	26.19	2050
11/1/2050	25.53	23.90	0%	25.53	0.656	11/1/2050	26.19	2050
12/1/2050	25.53	23.95	0%	25.53	0.656	12/1/2050	26.19	2050

Crystal River

PETROLEUM PRODUCT PRICE FORECAST DATA

Date	Product Price Forecast - Gulf	TCM	Blend TCM/ Fundamental (%)	Blend TCM/ Fundamental ($)	Transport ($/MMBtu)
1/1/2019	14.62	12.93	100%	12.93	0.630
2/1/2019	14.62	13.87	100%	13.87	0.630
3/1/2019	14.62	13.78	100%	13.78	0.630
4/1/2019	14.62	14.33	100%	14.33	0.630
5/1/2019	14.62	14.29	100%	14.29	0.630
6/1/2019	14.62	13.17	100%	13.17	0.630
7/1/2019	14.62	13.86	100%	13.86	0.630
8/1/2019	14.62	13.04	100%	13.04	0.630
9/1/2019	14.62	13.58	100%	13.58	0.630
10/1/2019	14.62	13.31	100%	13.31	0.630
11/1/2019	14.62	13.08	100%	13.08	0.630
12/1/2019	14.62	13.09	100%	13.09	0.630
1/1/2020	13.66	13.80	100%	13.80	0.640
2/1/2020	13.66	14.09	100%	14.09	0.640
3/1/2020	13.66	14.60	100%	14.60	0.640
4/1/2020	13.66	14.42	100%	14.42	0.640
5/1/2020	13.66	13.11	100%	13.11	0.640
6/1/2020	13.66	13.60	100%	13.60	0.640
7/1/2020	13.66	12.98	100%	12.98	0.640
8/1/2020	13.66	13.82	100%	13.82	0.640
9/1/2020	13.66	13.64	100%	13.64	0.640
10/1/2020	13.66	13.38	100%	13.38	0.640
11/1/2020	13.66	13.16	100%	13.16	0.640
12/1/2020	13.66	13.18	100%	13.18	0.640
1/1/2021	13.38	13.24	100%	13.24	0.649
2/1/2021	13.38	13.26	100%	13.26	0.649
3/1/2021	13.38	13.28	100%	13.28	0.649
4/1/2021	13.38	13.30	100%	13.30	0.649
5/1/2021	13.38	13.31	100%	13.31	0.649
6/1/2021	13.38	13.33	100%	13.33	0.649
7/1/2021	13.38	13.33	100%	13.33	0.649
8/1/2021	13.38	13.33	100%	13.33	0.649
9/1/2021	13.38	13.89	100%	13.89	0.649
10/1/2021	13.38	13.63	100%	13.63	0.649
11/1/2021	13.38	13.40	100%	13.40	0.649
12/1/2021	13.38	13.42	100%	13.42	0.649
1/1/2022	13.44	13.57	96%	13.57	0.659
2/1/2022	13.44	13.59	92%	13.58	0.659
3/1/2022	13.44	13.61	88%	13.59	0.659
4/1/2022	13.44	13.62	84%	13.60	0.659
5/1/2022	13.44	13.64	80%	13.60	0.659
6/1/2022	13.44	13.66	76%	13.61	0.659
7/1/2022	13.44	13.66	72%	13.60	0.659
8/1/2022	13.44	13.66	68%	13.59	0.659
9/1/2022	13.44	14.23	64%	13.95	0.659
10/1/2022	13.44	13.96	60%	13.76	0.659
11/1/2022	13.44	13.73	56%	13.60	0.659
12/1/2022	13.44	13.75	52%	13.60	0.659
1/1/2023	13.75	13.90	48%	13.82	0.669
2/1/2023	13.75	13.92	44%	13.83	0.669
3/1/2023	13.75	13.94	40%	13.83	0.669

PROSYM INPUT

Date	nomianl$/MMBtu
1/1/2019	13.56
2/1/2019	14.50
3/1/2019	14.41
4/1/2019	14.96
5/1/2019	14.92
6/1/2019	13.80
7/1/2019	14.49
8/1/2019	13.67
9/1/2019	14.21
10/1/2019	13.94
11/1/2019	13.71
12/1/2019	13.72
1/1/2020	14.44
2/1/2020	14.73
3/1/2020	15.24
4/1/2020	15.06
5/1/2020	13.75
6/1/2020	14.24
7/1/2020	13.62
8/1/2020	14.46
9/1/2020	14.28
10/1/2020	14.02
11/1/2020	13.80
12/1/2020	13.82
1/1/2021	13.89
2/1/2021	13.91
3/1/2021	13.93
4/1/2021	13.95
5/1/2021	13.96
6/1/2021	13.98
7/1/2021	13.98
8/1/2021	13.98
9/1/2021	14.54
10/1/2021	14.28
11/1/2021	14.05
12/1/2021	14.07
1/1/2022	14.22
2/1/2022	14.24
3/1/2022	14.25
4/1/2022	14.25
5/1/2022	14.26
6/1/2022	14.27
7/1/2022	14.26
8/1/2022	14.25
9/1/2022	14.61
10/1/2022	14.41
11/1/2022	14.26
12/1/2022	14.26
1/1/2023	14.49
2/1/2023	14.49
3/1/2023	14.49

ANNUAL AVERAGE

		Crystal River
2019	2019	14.16
2019	2020	14.29
2019	2021	14.04
2019	2022	14.30
2019	2023	14.48
2019	2024	14.76
2019	2025	15.12
2019	2026	15.70
2019	2027	16.35
2019	2028	17.11
2019	2029	17.80
2019	2030	18.24
2020	2031	18.65
2020	2032	19.07
2020	2033	19.50
2020	2034	19.95
2020	2035	20.40
2020	2036	20.86
2020	2037	21.34
2020	2038	21.74
2020	2039	22.13
2020	2040	22.28
2020	2041	22.85
2020	2042	23.44
2021	2043	23.64
2021	2044	24.24
2021	2045	24.44
2021	2046	25.06
2021	2047	25.68
2021	2048	25.88
2021	2049	26.52
2021	2050	26.53
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4/1/2023	13.75	13.96	36%	13.82	0.669	4/1/2023	14.49	2023
5/1/2023	13.75	13.98	32%	13.82	0.669	5/1/2023	14.49	2023
6/1/2023	13.75	13.99	28%	13.82	0.669	6/1/2023	14.49	2023
7/1/2023	13.75	13.93	24%	13.79	0.669	7/1/2023	14.46	2023
8/1/2023	13.75	13.93	20%	13.79	0.669	8/1/2023	14.46	2023
9/1/2023	13.75	14.51	16%	13.87	0.669	9/1/2023	14.54	2023
10/1/2023	13.75	14.24	12%	13.81	0.669	10/1/2023	14.48	2023
11/1/2023	13.75	14.00	8%	13.77	0.669	11/1/2023	14.44	2023
12/1/2023	13.75	14.03	4%	13.76	0.669	12/1/2023	14.43	2023
1/1/2024	14.08	14.18	0%	14.08	0.679	1/1/2024	14.76	2024
2/1/2024	14.08	14.20	0%	14.08	0.679	2/1/2024	14.76	2024
3/1/2024	14.08	14.22	0%	14.08	0.679	3/1/2024	14.76	2024
4/1/2024	14.08	14.24	0%	14.08	0.679	4/1/2024	14.76	2024
5/1/2024	14.08	14.26	0%	14.08	0.679	5/1/2024	14.76	2024
6/1/2024	14.08	14.27	0%	14.08	0.679	6/1/2024	14.76	2024
7/1/2024	14.08	14.21	0%	14.08	0.679	7/1/2024	14.76	2024
8/1/2024	14.08	14.21	0%	14.08	0.679	8/1/2024	14.76	2024
9/1/2024	14.08	14.80	0%	14.08	0.679	9/1/2024	14.76	2024
10/1/2024	14.08	14.53	0%	14.08	0.679	10/1/2024	14.76	2024
11/1/2024	14.08	14.28	0%	14.08	0.679	11/1/2024	14.76	2024
12/1/2024	14.08	14.31	0%	14.08	0.679	12/1/2024	14.76	2024
1/1/2025	14.43	14.47	0%	14.43	0.689	1/1/2025	15.12	2025
2/1/2025	14.43	14.48	0%	14.43	0.689	2/1/2025	15.12	2025
3/1/2025	14.43	14.50	0%	14.43	0.689	3/1/2025	15.12	2025
4/1/2025	14.43	14.52	0%	14.43	0.689	4/1/2025	15.12	2025
5/1/2025	14.43	14.54	0%	14.43	0.689	5/1/2025	15.12	2025
6/1/2025	14.43	14.56	0%	14.43	0.689	6/1/2025	15.12	2025
7/1/2025	14.43	14.50	0%	14.43	0.689	7/1/2025	15.12	2025
8/1/2025	14.43	14.50	0%	14.43	0.689	8/1/2025	15.12	2025
9/1/2025	14.43	15.10	0%	14.43	0.689	9/1/2025	15.12	2025
10/1/2025	14.43	14.82	0%	14.43	0.689	10/1/2025	15.12	2025
11/1/2025	14.43	14.57	0%	14.43	0.689	11/1/2025	15.12	2025
12/1/2025	14.43	14.60	0%	14.43	0.689	12/1/2025	15.12	2025
1/1/2026	15.00	14.75	0%	15.00	0.700	1/1/2026	15.70	2026
2/1/2026	15.00	14.77	0%	15.00	0.700	2/1/2026	15.70	2026
3/1/2026	15.00	14.79	0%	15.00	0.700	3/1/2026	15.70	2026
4/1/2026	15.00	14.81	0%	15.00	0.700	4/1/2026	15.70	2026
5/1/2026	15.00	14.83	0%	15.00	0.700	5/1/2026	15.70	2026
6/1/2026	15.00	14.85	0%	15.00	0.700	6/1/2026	15.70	2026
7/1/2026	15.00	14.79	0%	15.00	0.700	7/1/2026	15.70	2026
8/1/2026	15.00	14.79	0%	15.00	0.700	8/1/2026	15.70	2026
9/1/2026	15.00	15.40	0%	15.00	0.700	9/1/2026	15.70	2026
10/1/2026	15.00	15.11	0%	15.00	0.700	10/1/2026	15.70	2026
11/1/2026	15.00	14.86	0%	15.00	0.700	11/1/2026	15.70	2026
12/1/2026	15.00	14.89	0%	15.00	0.700	12/1/2026	15.70	2026
1/1/2027	15.64	15.05	0%	15.64	0.710	1/1/2027	16.35	2027
2/1/2027	15.64	15.07	0%	15.64	0.710	2/1/2027	16.35	2027
3/1/2027	15.64	15.09	0%	15.64	0.710	3/1/2027	16.35	2027
4/1/2027	15.64	15.11	0%	15.64	0.710	4/1/2027	16.35	2027
5/1/2027	15.64	15.13	0%	15.64	0.710	5/1/2027	16.35	2027
6/1/2027	15.64	15.15	0%	15.64	0.710	6/1/2027	16.35	2027
7/1/2027	15.64	15.08	0%	15.64	0.710	7/1/2027	16.35	2027
8/1/2027	15.64	15.08	0%	15.64	0.710	8/1/2027	16.35	2027
9/1/2027	15.64	15.71	0%	15.64	0.710	9/1/2027	16.35	2027

10/1/2027	15.64	15.42	0%	15.64	0.710	10/1/2027	16.35	2027
11/1/2027	15.64	15.16	0%	15.64	0.710	11/1/2027	16.35	2027
12/1/2027	15.64	15.19	0%	15.64	0.710	12/1/2027	16.35	2027
1/1/2028	16.39	15.35	0%	16.39	0.721	1/1/2028	17.11	2028
2/1/2028	16.39	15.37	0%	16.39	0.721	2/1/2028	17.11	2028
3/1/2028	16.39	15.39	0%	16.39	0.721	3/1/2028	17.11	2028
4/1/2028	16.39	15.41	0%	16.39	0.721	4/1/2028	17.11	2028
5/1/2028	16.39	15.43	0%	16.39	0.721	5/1/2028	17.11	2028
6/1/2028	16.39	15.45	0%	16.39	0.721	6/1/2028	17.11	2028
7/1/2028	16.39	15.38	0%	16.39	0.721	7/1/2028	17.11	2028
8/1/2028	16.39	15.38	0%	16.39	0.721	8/1/2028	17.11	2028
9/1/2028	16.39	16.03	0%	16.39	0.721	9/1/2028	17.11	2028
10/1/2028	16.39	15.73	0%	16.39	0.721	10/1/2028	17.11	2028
11/1/2028	16.39	15.46	0%	16.39	0.721	11/1/2028	17.11	2028
12/1/2028	16.39	15.49	0%	16.39	0.721	12/1/2028	17.11	2028
1/1/2029	17.07	15.66	0%	17.07	0.732	1/1/2029	17.80	2029
2/1/2029	17.07	15.68	0%	17.07	0.732	2/1/2029	17.80	2029
3/1/2029	17.07	15.70	0%	17.07	0.732	3/1/2029	17.80	2029
4/1/2029	17.07	15.72	0%	17.07	0.732	4/1/2029	17.80	2029
5/1/2029	17.07	15.74	0%	17.07	0.732	5/1/2029	17.80	2029
6/1/2029	17.07	15.76	0%	17.07	0.732	6/1/2029	17.80	2029
7/1/2029	17.07	15.69	0%	17.07	0.732	7/1/2029	17.80	2029
8/1/2029	17.07	15.69	0%	17.07	0.732	8/1/2029	17.80	2029
9/1/2029	17.07	16.35	0%	17.07	0.732	9/1/2029	17.80	2029
10/1/2029	17.07	16.04	0%	17.07	0.732	10/1/2029	17.80	2029
11/1/2029	17.07	15.77	0%	17.07	0.732	11/1/2029	17.80	2029
12/1/2029	17.07	15.80	0%	17.07	0.732	12/1/2029	17.80	2029
1/1/2030	17.50	15.97	0%	17.50	0.743	1/1/2030	18.24	2030
2/1/2030	17.50	15.99	0%	17.50	0.743	2/1/2030	18.24	2030
3/1/2030	17.50	16.01	0%	17.50	0.743	3/1/2030	18.24	2030
4/1/2030	17.50	16.03	0%	17.50	0.743	4/1/2030	18.24	2030
5/1/2030	17.50	16.05	0%	17.50	0.743	5/1/2030	18.24	2030
6/1/2030	17.50	16.08	0%	17.50	0.743	6/1/2030	18.24	2030
7/1/2030	17.50	16.00	0%	17.50	0.743	7/1/2030	18.24	2030
8/1/2030	17.50	16.00	0%	17.50	0.743	8/1/2030	18.24	2030
9/1/2030	17.50	16.67	0%	17.50	0.743	9/1/2030	18.24	2030
10/1/2030	17.50	16.36	0%	17.50	0.743	10/1/2030	18.24	2030
11/1/2030	17.50	16.09	0%	17.50	0.743	11/1/2030	18.24	2030
12/1/2030	17.50	16.12	0%	17.50	0.743	12/1/2030	18.24	2030
1/1/2031	17.89	16.29	0%	17.89	0.754	1/1/2031	18.65	2031
2/1/2031	17.89	16.31	0%	17.89	0.754	2/1/2031	18.65	2031
3/1/2031	17.89	16.33	0%	17.89	0.754	3/1/2031	18.65	2031
4/1/2031	17.89	16.35	0%	17.89	0.754	4/1/2031	18.65	2031
5/1/2031	17.89	16.38	0%	17.89	0.754	5/1/2031	18.65	2031
6/1/2031	17.89	16.40	0%	17.89	0.754	6/1/2031	18.65	2031
7/1/2031	17.89	16.32	0%	17.89	0.754	7/1/2031	18.65	2031
8/1/2031	17.89	16.32	0%	17.89	0.754	8/1/2031	18.65	2031
9/1/2031	17.89	17.01	0%	17.89	0.754	9/1/2031	18.65	2031
10/1/2031	17.89	16.69	0%	17.89	0.754	10/1/2031	18.65	2031
11/1/2031	17.89	16.41	0%	17.89	0.754	11/1/2031	18.65	2031
12/1/2031	17.89	16.44	0%	17.89	0.754	12/1/2031	18.65	2031
1/1/2032	18.30	16.62	0%	18.30	0.765	1/1/2032	19.07	2032
2/1/2032	18.30	16.64	0%	18.30	0.765	2/1/2032	19.07	2032
3/1/2032	18.30	16.66	0%	18.30	0.765	3/1/2032	19.07	2032

4/1/2032	18.30	16.68	0%	18.30	0.765	4/1/2032	19.07	2032
5/1/2032	18.30	16.70	0%	18.30	0.765	5/1/2032	19.07	2032
6/1/2032	18.30	16.72	0%	18.30	0.765	6/1/2032	19.07	2032
7/1/2032	18.30	16.65	0%	18.30	0.765	7/1/2032	19.07	2032
8/1/2032	18.30	16.65	0%	18.30	0.765	8/1/2032	19.07	2032
9/1/2032	18.30	17.35	0%	18.30	0.765	9/1/2032	19.07	2032
10/1/2032	18.30	17.02	0%	18.30	0.765	10/1/2032	19.07	2032
11/1/2032	18.30	16.74	0%	18.30	0.765	11/1/2032	19.07	2032
12/1/2032	18.30	16.77	0%	18.30	0.765	12/1/2032	19.07	2032
1/1/2033	18.73	16.95	0%	18.73	0.777	1/1/2033	19.50	2033
2/1/2033	18.73	16.97	0%	18.73	0.777	2/1/2033	19.50	2033
3/1/2033	18.73	16.99	0%	18.73	0.777	3/1/2033	19.50	2033
4/1/2033	18.73	17.01	0%	18.73	0.777	4/1/2033	19.50	2033
5/1/2033	18.73	17.04	0%	18.73	0.777	5/1/2033	19.50	2033
6/1/2033	18.73	17.06	0%	18.73	0.777	6/1/2033	19.50	2033
7/1/2033	18.73	16.98	0%	18.73	0.777	7/1/2033	19.50	2033
8/1/2033	18.73	16.98	0%	18.73	0.777	8/1/2033	19.50	2033
9/1/2033	18.73	17.69	0%	18.73	0.777	9/1/2033	19.50	2033
10/1/2033	18.73	17.36	0%	18.73	0.777	10/1/2033	19.50	2033
11/1/2033	18.73	17.07	0%	18.73	0.777	11/1/2033	19.50	2033
12/1/2033	18.73	17.10	0%	18.73	0.777	12/1/2033	19.50	2033
1/1/2034	19.16	17.29	0%	19.16	0.788	1/1/2034	19.95	2034
2/1/2034	19.16	17.31	0%	19.16	0.788	2/1/2034	19.95	2034
3/1/2034	19.16	17.33	0%	19.16	0.788	3/1/2034	19.95	2034
4/1/2034	19.16	17.36	0%	19.16	0.788	4/1/2034	19.95	2034
5/1/2034	19.16	17.38	0%	19.16	0.788	5/1/2034	19.95	2034
6/1/2034	19.16	17.40	0%	19.16	0.788	6/1/2034	19.95	2034
7/1/2034	19.16	17.32	0%	19.16	0.788	7/1/2034	19.95	2034
8/1/2034	19.16	17.32	0%	19.16	0.788	8/1/2034	19.95	2034
9/1/2034	19.16	18.05	0%	19.16	0.788	9/1/2034	19.95	2034
10/1/2034	19.16	17.71	0%	19.16	0.788	10/1/2034	19.95	2034
11/1/2034	19.16	17.41	0%	19.16	0.788	11/1/2034	19.95	2034
12/1/2034	19.16	17.44	0%	19.16	0.788	12/1/2034	19.95	2034
1/1/2035	19.60	17.63	0%	19.60	0.800	1/1/2035	20.40	2035
2/1/2035	19.60	17.66	0%	19.60	0.800	2/1/2035	20.40	2035
3/1/2035	19.60	17.68	0%	19.60	0.800	3/1/2035	20.40	2035
4/1/2035	19.60	17.70	0%	19.60	0.800	4/1/2035	20.40	2035
5/1/2035	19.60	17.73	0%	19.60	0.800	5/1/2035	20.40	2035
6/1/2035	19.60	17.75	0%	19.60	0.800	6/1/2035	20.40	2035
7/1/2035	19.60	17.67	0%	19.60	0.800	7/1/2035	20.40	2035
8/1/2035	19.60	17.67	0%	19.60	0.800	8/1/2035	20.40	2035
9/1/2035	19.60	18.41	0%	19.60	0.800	9/1/2035	20.40	2035
10/1/2035	19.60	18.06	0%	19.60	0.800	10/1/2035	20.40	2035
11/1/2035	19.60	17.76	0%	19.60	0.800	11/1/2035	20.40	2035
12/1/2035	19.60	17.79	0%	19.60	0.800	12/1/2035	20.40	2035
1/1/2036	20.05	17.99	0%	20.05	0.800	1/1/2036	20.85	2036
2/1/2036	20.05	18.01	0%	20.05	0.800	2/1/2036	20.85	2036
3/1/2036	20.05	18.03	0%	20.05	0.812	3/1/2036	20.86	2036
4/1/2036	20.05	18.06	0%	20.05	0.812	4/1/2036	20.86	2036
5/1/2036	20.05	18.08	0%	20.05	0.812	5/1/2036	20.86	2036
6/1/2036	20.05	18.10	0%	20.05	0.812	6/1/2036	20.86	2036
7/1/2036	20.05	18.02	0%	20.05	0.812	7/1/2036	20.86	2036
8/1/2036	20.05	18.02	0%	20.05	0.812	8/1/2036	20.86	2036
9/1/2036	20.05	18.78	0%	20.05	0.812	9/1/2036	20.86	2036

10/1/2036	20.05	18.42	0%	20.05	0.812	10/1/2036	20.86	2036
11/1/2036	20.05	18.12	0%	20.05	0.812	11/1/2036	20.86	2036
12/1/2036	20.05	18.15	0%	20.05	0.812	12/1/2036	20.86	2036
1/1/2037	20.52	18.35	0%	20.52	0.812	1/1/2037	21.33	2037
2/1/2037	20.52	18.37	0%	20.52	0.812	2/1/2037	21.33	2037
3/1/2037	20.52	18.39	0%	20.52	0.824	3/1/2037	21.35	2037
4/1/2037	20.52	18.42	0%	20.52	0.824	4/1/2037	21.35	2037
5/1/2037	20.52	18.44	0%	20.52	0.824	5/1/2037	21.35	2037
6/1/2037	20.52	18.47	0%	20.52	0.824	6/1/2037	21.35	2037
7/1/2037	20.52	18.38	0%	20.52	0.824	7/1/2037	21.35	2037
8/1/2037	20.52	18.38	0%	20.52	0.824	8/1/2037	21.35	2037
9/1/2037	20.52	19.15	0%	20.52	0.824	9/1/2037	21.35	2037
10/1/2037	20.52	18.79	0%	20.52	0.824	10/1/2037	21.35	2037
11/1/2037	20.52	18.48	0%	20.52	0.824	11/1/2037	21.35	2037
12/1/2037	20.52	18.51	0%	20.52	0.824	12/1/2037	21.35	2037
1/1/2038	20.91	18.71	0%	20.91	0.824	1/1/2038	21.73	2038
2/1/2038	20.91	18.74	0%	20.91	0.824	2/1/2038	21.73	2038
3/1/2038	20.91	18.76	0%	20.91	0.837	3/1/2038	21.75	2038
4/1/2038	20.91	18.79	0%	20.91	0.837	4/1/2038	21.75	2038
5/1/2038	20.91	18.81	0%	20.91	0.837	5/1/2038	21.75	2038
6/1/2038	20.91	18.83	0%	20.91	0.837	6/1/2038	21.75	2038
7/1/2038	20.91	18.75	0%	20.91	0.837	7/1/2038	21.75	2038
8/1/2038	20.91	18.75	0%	20.91	0.837	8/1/2038	21.75	2038
9/1/2038	20.91	19.53	0%	20.91	0.837	9/1/2038	21.75	2038
10/1/2038	20.91	19.17	0%	20.91	0.837	10/1/2038	21.75	2038
11/1/2038	20.91	18.85	0%	20.91	0.837	11/1/2038	21.75	2038
12/1/2038	20.91	18.88	0%	20.91	0.837	12/1/2038	21.75	2038
1/1/2039	21.29	19.09	0%	21.29	0.837	1/1/2039	22.12	2039
2/1/2039	21.29	19.11	0%	21.29	0.837	2/1/2039	22.12	2039
3/1/2039	21.29	19.14	0%	21.29	0.849	3/1/2039	22.14	2039
4/1/2039	21.29	19.16	0%	21.29	0.849	4/1/2039	22.14	2039
5/1/2039	21.29	19.19	0%	21.29	0.849	5/1/2039	22.14	2039
6/1/2039	21.29	19.21	0%	21.29	0.849	6/1/2039	22.14	2039
7/1/2039	21.29	19.13	0%	21.29	0.849	7/1/2039	22.14	2039
8/1/2039	21.29	19.13	0%	21.29	0.849	8/1/2039	22.14	2039
9/1/2039	21.29	19.93	0%	21.29	0.849	9/1/2039	22.14	2039
10/1/2039	21.29	19.55	0%	21.29	0.849	10/1/2039	22.14	2039
11/1/2039	21.29	19.22	0%	21.29	0.849	11/1/2039	22.14	2039
12/1/2039	21.29	19.26	0%	21.29	0.849	12/1/2039	22.14	2039
1/1/2040	21.42	19.47	0%	21.42	0.849	1/1/2040	22.27	2040
2/1/2040	21.42	19.49	0%	21.42	0.849	2/1/2040	22.27	2040
3/1/2040	21.42	19.52	0%	21.42	0.862	3/1/2040	22.28	2040
4/1/2040	21.42	19.54	0%	21.42	0.862	4/1/2040	22.28	2040
5/1/2040	21.42	19.57	0%	21.42	0.862	5/1/2040	22.28	2040
6/1/2040	21.42	19.60	0%	21.42	0.862	6/1/2040	22.28	2040
7/1/2040	21.42	19.51	0%	21.42	0.862	7/1/2040	22.28	2040
8/1/2040	21.42	19.51	0%	21.42	0.862	8/1/2040	22.28	2040
9/1/2040	21.42	20.32	0%	21.42	0.862	9/1/2040	22.28	2040
10/1/2040	21.42	19.94	0%	21.42	0.862	10/1/2040	22.28	2040
11/1/2040	21.42	19.61	0%	21.42	0.862	11/1/2040	22.28	2040
12/1/2040	21.42	19.64	0%	21.42	0.862	12/1/2040	22.28	2040
1/1/2041	21.98	19.86	0%	21.98	0.862	1/1/2041	22.84	2041
2/1/2041	21.98	19.88	0%	21.98	0.862	2/1/2041	22.84	2041
3/1/2041	21.98	19.91	0%	21.98	0.875	3/1/2041	22.85	2041

4/1/2041	21.98	19.94	0%	21.98	0.875	4/1/2041	22.85	2041
5/1/2041	21.98	19.96	0%	21.98	0.875	5/1/2041	22.85	2041
6/1/2041	21.98	19.99	0%	21.98	0.875	6/1/2041	22.85	2041
7/1/2041	21.98	19.90	0%	21.98	0.875	7/1/2041	22.85	2041
8/1/2041	21.98	19.90	0%	21.98	0.875	8/1/2041	22.85	2041
9/1/2041	21.98	20.73	0%	21.98	0.875	9/1/2041	22.85	2041
10/1/2041	21.98	20.34	0%	21.98	0.875	10/1/2041	22.85	2041
11/1/2041	21.98	20.00	0%	21.98	0.875	11/1/2041	22.85	2041
12/1/2041	21.98	20.04	0%	21.98	0.875	12/1/2041	22.85	2041
1/1/2042	22.55	20.25	0%	22.55	0.875	1/1/2042	23.43	2042
2/1/2042	22.55	20.28	0%	22.55	0.875	2/1/2042	23.43	2042
3/1/2042	22.55	20.31	0%	22.55	0.888	3/1/2042	23.44	2042
4/1/2042	22.55	20.33	0%	22.55	0.888	4/1/2042	23.44	2042
5/1/2042	22.55	20.36	0%	22.55	0.888	5/1/2042	23.44	2042
6/1/2042	22.55	20.39	0%	22.55	0.888	6/1/2042	23.44	2042
7/1/2042	22.55	20.30	0%	22.55	0.888	7/1/2042	23.44	2042
8/1/2042	22.55	20.30	0%	22.55	0.888	8/1/2042	23.44	2042
9/1/2042	22.55	21.14	0%	22.55	0.888	9/1/2042	23.44	2042
10/1/2042	22.55	20.75	0%	22.55	0.888	10/1/2042	23.44	2042
11/1/2042	22.55	20.40	0%	22.55	0.888	11/1/2042	23.44	2042
12/1/2042	22.55	20.44	0%	22.55	0.888	12/1/2042	23.44	2042
1/1/2043	22.74	20.66	0%	22.74	0.888	1/1/2043	23.63	2043
2/1/2043	22.74	20.69	0%	22.74	0.888	2/1/2043	23.63	2043
3/1/2043	22.74	20.71	0%	22.74	0.901	3/1/2043	23.64	2043
4/1/2043	22.74	20.74	0%	22.74	0.901	4/1/2043	23.64	2043
5/1/2043	22.74	20.77	0%	22.74	0.901	5/1/2043	23.64	2043
6/1/2043	22.74	20.80	0%	22.74	0.901	6/1/2043	23.64	2043
7/1/2043	22.74	20.70	0%	22.74	0.901	7/1/2043	23.64	2043
8/1/2043	22.74	20.70	0%	22.74	0.901	8/1/2043	23.64	2043
9/1/2043	22.74	21.57	0%	22.74	0.901	9/1/2043	23.64	2043
10/1/2043	22.74	21.16	0%	22.74	0.901	10/1/2043	23.64	2043
11/1/2043	22.74	20.81	0%	22.74	0.901	11/1/2043	23.64	2043
12/1/2043	22.74	20.85	0%	22.74	0.901	12/1/2043	23.64	2043
1/1/2044	23.33	21.07	0%	23.33	0.901	1/1/2044	24.23	2044
2/1/2044	23.33	21.10	0%	23.33	0.901	2/1/2044	24.23	2044
3/1/2044	23.33	21.13	0%	23.33	0.915	3/1/2044	24.25	2044
4/1/2044	23.33	21.16	0%	23.33	0.915	4/1/2044	24.25	2044
5/1/2044	23.33	21.18	0%	23.33	0.915	5/1/2044	24.25	2044
6/1/2044	23.33	21.21	0%	23.33	0.915	6/1/2044	24.25	2044
7/1/2044	23.33	21.12	0%	23.33	0.915	7/1/2044	24.25	2044
8/1/2044	23.33	21.12	0%	23.33	0.915	8/1/2044	24.25	2044
9/1/2044	23.33	22.00	0%	23.33	0.915	9/1/2044	24.25	2044
10/1/2044	23.33	21.59	0%	23.33	0.915	10/1/2044	24.25	2044
11/1/2044	23.33	21.22	0%	23.33	0.915	11/1/2044	24.25	2044
12/1/2044	23.33	21.26	0%	23.33	0.915	12/1/2044	24.25	2044
1/1/2045	23.52	21.49	0%	23.52	0.915	1/1/2045	24.43	2045
2/1/2045	23.52	21.52	0%	23.52	0.915	2/1/2045	24.43	2045
3/1/2045	23.52	21.55	0%	23.52	0.928	3/1/2045	24.45	2045
4/1/2045	23.52	21.58	0%	23.52	0.928	4/1/2045	24.45	2045
5/1/2045	23.52	21.61	0%	23.52	0.928	5/1/2045	24.45	2045
6/1/2045	23.52	21.64	0%	23.52	0.928	6/1/2045	24.45	2045
7/1/2045	23.52	21.54	0%	23.52	0.928	7/1/2045	24.45	2045
8/1/2045	23.52	21.54	0%	23.52	0.928	8/1/2045	24.45	2045
9/1/2045	23.52	22.44	0%	23.52	0.928	9/1/2045	24.45	2045

10/1/2045	23.52	22.02	0%	23.52	0.928	10/1/2045	24.45	2045
11/1/2045	23.52	21.65	0%	23.52	0.928	11/1/2045	24.45	2045
12/1/2045	23.52	21.69	0%	23.52	0.928	12/1/2045	24.45	2045
1/1/2046	24.12	21.92	0%	24.12	0.928	1/1/2046	25.05	2046
2/1/2046	24.12	21.95	0%	24.12	0.928	2/1/2046	25.05	2046
3/1/2046	24.12	21.98	0%	24.12	0.942	3/1/2046	25.06	2046
4/1/2046	24.12	22.01	0%	24.12	0.942	4/1/2046	25.06	2046
5/1/2046	24.12	22.04	0%	24.12	0.942	5/1/2046	25.06	2046
6/1/2046	24.12	22.07	0%	24.12	0.942	6/1/2046	25.06	2046
7/1/2046	24.12	21.97	0%	24.12	0.942	7/1/2046	25.06	2046
8/1/2046	24.12	21.97	0%	24.12	0.942	8/1/2046	25.06	2046
9/1/2046	24.12	22.89	0%	24.12	0.942	9/1/2046	25.06	2046
10/1/2046	24.12	22.46	0%	24.12	0.942	10/1/2046	25.06	2046
11/1/2046	24.12	22.08	0%	24.12	0.942	11/1/2046	25.06	2046
12/1/2046	24.12	22.12	0%	24.12	0.942	12/1/2046	25.06	2046
1/1/2047	24.73	22.36	0%	24.73	0.942	1/1/2047	25.67	2047
2/1/2047	24.73	22.39	0%	24.73	0.942	2/1/2047	25.67	2047
3/1/2047	24.73	22.42	0%	24.73	0.956	3/1/2047	25.69	2047
4/1/2047	24.73	22.45	0%	24.73	0.956	4/1/2047	25.69	2047
5/1/2047	24.73	22.48	0%	24.73	0.956	5/1/2047	25.69	2047
6/1/2047	24.73	22.51	0%	24.73	0.956	6/1/2047	25.69	2047
7/1/2047	24.73	22.41	0%	24.73	0.956	7/1/2047	25.69	2047
8/1/2047	24.73	22.41	0%	24.73	0.956	8/1/2047	25.69	2047
9/1/2047	24.73	23.35	0%	24.73	0.956	9/1/2047	25.69	2047
10/1/2047	24.73	22.91	0%	24.73	0.956	10/1/2047	25.69	2047
11/1/2047	24.73	22.52	0%	24.73	0.956	11/1/2047	25.69	2047
12/1/2047	24.73	22.57	0%	24.73	0.956	12/1/2047	25.69	2047
1/1/2048	24.91	22.81	0%	24.91	0.956	1/1/2048	25.86	2048
2/1/2048	24.91	22.84	0%	24.91	0.956	2/1/2048	25.86	2048
3/1/2048	24.91	22.87	0%	24.91	0.971	3/1/2048	25.88	2048
4/1/2048	24.91	22.90	0%	24.91	0.971	4/1/2048	25.88	2048
5/1/2048	24.91	22.93	0%	24.91	0.971	5/1/2048	25.88	2048
6/1/2048	24.91	22.96	0%	24.91	0.971	6/1/2048	25.88	2048
7/1/2048	24.91	22.86	0%	24.91	0.971	7/1/2048	25.88	2048
8/1/2048	24.91	22.86	0%	24.91	0.971	8/1/2048	25.88	2048
9/1/2048	24.91	23.81	0%	24.91	0.971	9/1/2048	25.88	2048
10/1/2048	24.91	23.37	0%	24.91	0.971	10/1/2048	25.88	2048
11/1/2048	24.91	22.97	0%	24.91	0.971	11/1/2048	25.88	2048
12/1/2048	24.91	23.02	0%	24.91	0.971	12/1/2048	25.88	2048
1/1/2049	25.53	23.27	0%	25.53	0.971	1/1/2049	26.50	2049
2/1/2049	25.53	23.30	0%	25.53	0.971	2/1/2049	26.50	2049
3/1/2049	25.53	23.33	0%	25.53	0.985	3/1/2049	26.52	2049
4/1/2049	25.53	23.36	0%	25.53	0.985	4/1/2049	26.52	2049
5/1/2049	25.53	23.39	0%	25.53	0.985	5/1/2049	26.52	2049
6/1/2049	25.53	23.42	0%	25.53	0.985	6/1/2049	26.52	2049
7/1/2049	25.53	23.32	0%	25.53	0.985	7/1/2049	26.52	2049
8/1/2049	25.53	23.32	0%	25.53	0.985	8/1/2049	26.52	2049
9/1/2049	25.53	24.29	0%	25.53	0.985	9/1/2049	26.52	2049
10/1/2049	25.53	23.83	0%	25.53	0.985	10/1/2049	26.52	2049
11/1/2049	25.53	23.43	0%	25.53	0.985	11/1/2049	26.52	2049
12/1/2049	25.53	23.48	0%	25.53	0.985	12/1/2049	26.52	2049
1/1/2050	25.53	23.73	0%	25.53	0.985	1/1/2050	26.52	2050
2/1/2050	25.53	23.76	0%	25.53	0.985	2/1/2050	26.52	2050
3/1/2050	25.53	23.79	0%	25.53	1.000	3/1/2050	26.53	2050

4/1/2050	25.53	23.83	0%	25.53	1.000	4/1/2050	26.53	2050
5/1/2050	25.53	23.86	0%	25.53	1.000	5/1/2050	26.53	2050
6/1/2050	25.53	23.89	0%	25.53	1.000	6/1/2050	26.53	2050
7/1/2050	25.53	23.78	0%	25.53	1.000	7/1/2050	26.53	2050
8/1/2050	25.53	23.78	0%	25.53	1.000	8/1/2050	26.53	2050
9/1/2050	25.53	24.77	0%	25.53	1.000	9/1/2050	26.53	2050
10/1/2050	25.53	24.31	0%	25.53	1.000	10/1/2050	26.53	2050
11/1/2050	25.53	23.90	0%	25.53	1.000	11/1/2050	26.53	2050
12/1/2050	25.53	23.95	0%	25.53	1.000	12/1/2050	26.53	2050

Debary

PETROLEUM PRODUCT PRICE FORECAST DATA

PROSYM INPUT

ANNUAL AVERAGE

Date	Petroleum Product Price Forecast - Gulf Coast	TCM	Blend TCM/ Fundamental (%)	Blend TCM/ Fundamental ($)	Debary Transport ($/MMBtu)
1/1/2019	14.62	12.93	100%	12.93	.
2/1/2019	14.62	13.87	100%	13.87	0.693
3/1/2019	14.62	13.78	100%	13.78	0.693
4/1/2019	14.62	14.33	100%	14.33	.
5/1/2019	14.62	14.29	100%	14.29	0.693
6/1/2019	14.62	13.17	100%	13.17	0.693
7/1/2019	14.62	13.86	100%	13.86	0.693
8/1/2019	14.62	13.04	100%	13.04	0.693
9/1/2019	14.62	13.58	100%	13.58	0.693
10/1/2019	14.62	13.31	100%	13.31	0.693
11/1/2019	14.62	13.08	100%	13.08	0.693
12/1/2019	14.62	13.09	100%	13.09	0.693
1/1/2020	13.66	13.80	100%	13.80	0.703
2/1/2020	13.66	14.09	100%	14.09	0.703
3/1/2020	13.66	14.60	100%	14.60	0.703
4/1/2020	13.66	14.42	100%	14.42	0.703
5/1/2020	13.66	13.11	100%	13.11	0.703
6/1/2020	13.66	13.60	100%	13.60	0.703
7/1/2020	13.66	12.98	100%	12.98	0.703
8/1/2020	13.66	13.82	100%	13.82	0.703
9/1/2020	13.66	13.64	100%	13.64	0.703
10/1/2020	13.66	13.38	100%	13.38	0.703
11/1/2020	13.66	13.16	100%	13.16	0.703
12/1/2020	13.66	13.18	100%	13.18	0.703
1/1/2021	13.38	13.24	100%	13.24	0.714
2/1/2021	13.38	13.26	100%	13.26	0.714
3/1/2021	13.38	13.28	100%	13.28	0.714
4/1/2021	13.38	13.30	100%	13.30	0.714
5/1/2021	13.38	13.31	100%	13.31	0.714
6/1/2021	13.38	13.33	100%	13.33	0.714
7/1/2021	13.38	13.33	100%	13.33	0.714
8/1/2021	13.38	13.33	100%	13.33	0.714
9/1/2021	13.38	13.89	100%	13.89	0.714
10/1/2021	13.38	13.63	100%	13.63	0.714
11/1/2021	13.38	13.40	100%	13.40	0.714
12/1/2021	13.38	13.42	100%	13.42	0.714
1/1/2022	13.44	13.57	96%	13.57	0.724
2/1/2022	13.44	13.59	92%	13.58	0.724
3/1/2022	13.44	13.61	88%	13.59	0.724
4/1/2022	13.44	13.62	84%	13.60	0.724
5/1/2022	13.44	13.64	80%	13.60	0.724
6/1/2022	13.44	13.66	76%	13.61	0.724
7/1/2022	13.44	13.66	72%	13.60	0.724
8/1/2022	13.44	13.66	68%	13.59	0.724
9/1/2022	13.44	14.23	64%	13.95	0.724
10/1/2022	13.44	13.96	60%	13.76	0.724
11/1/2022	13.44	13.73	56%	13.60	0.724
12/1/2022	13.44	13.75	52%	13.60	0.724
1/1/2023	13.75	13.90	48%	13.82	0.735
2/1/2023	13.75	13.92	44%	13.83	0.735
3/1/2023	13.75	13.94	40%	13.83	0.735
4/1/2023	13.75	13.96	36%	13.82	0.735
5/1/2023	13.75	13.98	32%	13.82	0.735
6/1/2023	13.75	13.99	28%	13.82	0.735
7/1/2023	13.75	13.93	24%	13.79	0.735
8/1/2023	13.75	13.93	20%	13.79	0.735
9/1/2023	13.75	14.51	16%	13.87	0.735
10/1/2023	13.75	14.24	12%	13.81	0.735
11/1/2023	13.75	14.00	8%	13.77	0.735
12/1/2023	13.75	14.03	4%	13.76	0.735
1/1/2024	14.08	14.18	0%	14.08	0.746
2/1/2024	14.08	14.20	0%	14.08	0.746
3/1/2024	14.08	14.22	0%	14.08	0.746
4/1/2024	14.08	14.24	0%	14.08	0.746
5/1/2024	14.08	14.26	0%	14.08	0.746

Date	nomianl$/MMBtu
1/1/2019	12.93
2/1/2019	14.56
3/1/2019	14.48
4/1/2019	14.33
5/1/2019	14.98
6/1/2019	13.86
7/1/2019	14.56
8/1/2019	13.74
9/1/2019	14.27
10/1/2019	14.00
11/1/2019	13.77
12/1/2019	13.78
1/1/2020	14.51
2/1/2020	14.80
3/1/2020	15.30
4/1/2020	15.13
5/1/2020	13.81
6/1/2020	14.30
7/1/2020	13.69
8/1/2020	14.52
9/1/2020	14.34
10/1/2020	14.08
11/1/2020	13.86
12/1/2020	13.88
1/1/2021	13.96
2/1/2021	13.98
3/1/2021	13.99
4/1/2021	14.01
5/1/2021	14.03
6/1/2021	14.05
7/1/2021	14.05
8/1/2021	14.05
9/1/2021	14.60
10/1/2021	14.34
11/1/2021	14.11
12/1/2021	14.14
1/1/2022	14.29
2/1/2022	14.30
3/1/2022	14.31
4/1/2022	14.32
5/1/2022	14.33
6/1/2022	14.33
7/1/2022	14.32
8/1/2022	14.31
9/1/2022	14.67
10/1/2022	14.48
11/1/2022	14.33
12/1/2022	14.33
1/1/2023	14.56
2/1/2023	14.56
3/1/2023	14.56
4/1/2023	14.56
5/1/2023	14.56
6/1/2023	14.55
7/1/2023	14.53
8/1/2023	14.52
9/1/2023	14.61
10/1/2023	14.54
11/1/2023	14.50
12/1/2023	14.50
1/1/2024	14.83
2/1/2024	14.83
3/1/2024	14.83
4/1/2024	14.83
5/1/2024	14.83

		Debary
2019	2019	14.10
2019	2020	14.35
2019	2021	14.11
2019	2022	14.36
2019	2023	14.55
2019	2024	14.83
2019	2025	15.19
2019	2026	15.76
2019	2027	16.42
2019	2028	17.18
2019	2029	17.87
2019	2030	18.31
2020	2031	18.72
2020	2032	19.14
2020	2033	19.58
2020	2034	20.02
2020	2035	20.48
2020	2036	20.94
2020	2037	21.42
2020	2038	21.83
2020	2039	22.22
2020	2040	22.37
2020	2041	22.94
2020	2042	23.52
2021	2043	23.73
2021	2044	24.33
2021	2045	24.53
2021	2046	25.15
2021	2047	25.78
2021	2048	25.97
2021	2049	26.61
2021	2050	26.63

6/1/2024	14.08	14.27	0%	14.08	0.746	6/1/2024	14.83	2024
7/1/2024	14.08	14.21	0%	14.08	0.746	7/1/2024	14.83	2024
8/1/2024	14.08	14.21	0%	14.08	0.746	8/1/2024	14.83	2024
9/1/2024	14.08	14.80	0%	14.08	0.746	9/1/2024	14.83	2024
10/1/2024	14.08	14.53	0%	14.08	0.746	10/1/2024	14.83	2024
11/1/2024	14.08	14.28	0%	14.08	0.746	11/1/2024	14.83	2024
12/1/2024	14.08	14.31	0%	14.08	0.746	12/1/2024	14.83	2024
1/1/2025	14.43	14.47	0%	14.43	0.757	1/1/2025	15.19	2025
2/1/2025	14.43	14.48	0%	14.43	0.757	2/1/2025	15.19	2025
3/1/2025	14.43	14.50	0%	14.43	0.757	3/1/2025	15.19	2025
4/1/2025	14.43	14.52	0%	14.43	0.757	4/1/2025	15.19	2025
5/1/2025	14.43	14.54	0%	14.43	0.757	5/1/2025	15.19	2025
6/1/2025	14.43	14.56	0%	14.43	0.757	6/1/2025	15.19	2025
7/1/2025	14.43	14.50	0%	14.43	0.757	7/1/2025	15.19	2025
8/1/2025	14.43	14.50	0%	14.43	0.757	8/1/2025	15.19	2025
9/1/2025	14.43	15.10	0%	14.43	0.757	9/1/2025	15.19	2025
10/1/2025	14.43	14.82	0%	14.43	0.757	10/1/2025	15.19	2025
11/1/2025	14.43	14.57	0%	14.43	0.757	11/1/2025	15.19	2025
12/1/2025	14.43	14.60	0%	14.43	0.757	12/1/2025	15.19	2025
1/1/2026	15.00	14.75	0%	15.00	0.769	1/1/2026	15.76	2026
2/1/2026	15.00	14.77	0%	15.00	0.769	2/1/2026	15.76	2026
3/1/2026	15.00	14.79	0%	15.00	0.769	3/1/2026	15.76	2026
4/1/2026	15.00	14.81	0%	15.00	0.769	4/1/2026	15.76	2026
5/1/2026	15.00	14.83	0%	15.00	0.769	5/1/2026	15.76	2026
6/1/2026	15.00	14.85	0%	15.00	0.769	6/1/2026	15.76	2026
7/1/2026	15.00	14.79	0%	15.00	0.769	7/1/2026	15.76	2026
8/1/2026	15.00	14.79	0%	15.00	0.769	8/1/2026	15.76	2026
9/1/2026	15.00	15.40	0%	15.00	0.769	9/1/2026	15.76	2026
10/1/2026	15.00	15.11	0%	15.00	0.769	10/1/2026	15.76	2026
11/1/2026	15.00	14.86	0%	15.00	0.769	11/1/2026	15.76	2026
12/1/2026	15.00	14.89	0%	15.00	0.769	12/1/2026	15.76	2026
1/1/2027	15.64	15.05	0%	15.64	0.780	1/1/2027	16.42	2027
2/1/2027	15.64	15.07	0%	15.64	0.780	2/1/2027	16.42	2027
3/1/2027	15.64	15.09	0%	15.64	0.780	3/1/2027	16.42	2027
4/1/2027	15.64	15.11	0%	15.64	0.780	4/1/2027	16.42	2027
5/1/2027	15.64	15.13	0%	15.64	0.780	5/1/2027	16.42	2027
6/1/2027	15.64	15.15	0%	15.64	0.780	6/1/2027	16.42	2027
7/1/2027	15.64	15.08	0%	15.64	0.780	7/1/2027	16.42	2027
8/1/2027	15.64	15.08	0%	15.64	0.780	8/1/2027	16.42	2027
9/1/2027	15.64	15.71	0%	15.64	0.780	9/1/2027	16.42	2027
10/1/2027	15.64	15.42	0%	15.64	0.780	10/1/2027	16.42	2027
11/1/2027	15.64	15.16	0%	15.64	0.780	11/1/2027	16.42	2027
12/1/2027	15.64	15.19	0%	15.64	0.780	12/1/2027	16.42	2027
1/1/2028	16.39	15.35	0%	16.39	0.792	1/1/2028	17.18	2028
2/1/2028	16.39	15.37	0%	16.39	0.792	2/1/2028	17.18	2028
3/1/2028	16.39	15.39	0%	16.39	0.792	3/1/2028	17.18	2028
4/1/2028	16.39	15.41	0%	16.39	0.792	4/1/2028	17.18	2028
5/1/2028	16.39	15.43	0%	16.39	0.792	5/1/2028	17.18	2028
6/1/2028	16.39	15.45	0%	16.39	0.792	6/1/2028	17.18	2028
7/1/2028	16.39	15.38	0%	16.39	0.792	7/1/2028	17.18	2028
8/1/2028	16.39	15.38	0%	16.39	0.792	8/1/2028	17.18	2028
9/1/2028	16.39	16.03	0%	16.39	0.792	9/1/2028	17.18	2028
10/1/2028	16.39	15.73	0%	16.39	0.792	10/1/2028	17.18	2028
11/1/2028	16.39	15.46	0%	16.39	0.792	11/1/2028	17.18	2028
12/1/2028	16.39	15.49	0%	16.39	0.792	12/1/2028	17.18	2028
1/1/2029	17.07	15.66	0%	17.07	0.804	1/1/2029	17.87	2029
2/1/2029	17.07	15.68	0%	17.07	0.804	2/1/2029	17.87	2029
3/1/2029	17.07	15.70	0%	17.07	0.804	3/1/2029	17.87	2029
4/1/2029	17.07	15.72	0%	17.07	0.804	4/1/2029	17.87	2029
5/1/2029	17.07	15.74	0%	17.07	0.804	5/1/2029	17.87	2029
6/1/2029	17.07	15.76	0%	17.07	0.804	6/1/2029	17.87	2029
7/1/2029	17.07	15.69	0%	17.07	0.804	7/1/2029	17.87	2029
8/1/2029	17.07	15.69	0%	17.07	0.804	8/1/2029	17.87	2029
9/1/2029	17.07	16.35	0%	17.07	0.804	9/1/2029	17.87	2029
10/1/2029	17.07	16.04	0%	17.07	0.804	10/1/2029	17.87	2029
11/1/2029	17.07	15.77	0%	17.07	0.804	11/1/2029	17.87	2029
12/1/2029	17.07	15.80	0%	17.07	0.804	12/1/2029	17.87	2029
1/1/2030	17.50	15.97	0%	17.50	0.816	1/1/2030	18.31	2030
2/1/2030	17.50	15.99	0%	17.50	0.816	2/1/2030	18.31	2030
3/1/2030	17.50	16.01	0%	17.50	0.816	3/1/2030	18.31	2030
4/1/2030	17.50	16.03	0%	17.50	0.816	4/1/2030	18.31	2030

5/1/2030	17.50	16.05	0%	17.50	0.816	5/1/2030	18.31	2030
6/1/2030	17.50	16.08	0%	17.50	0.816	6/1/2030	18.31	2030
7/1/2030	17.50	16.00	0%	17.50	0.816	7/1/2030	18.31	2030
8/1/2030	17.50	16.00	0%	17.50	0.816	8/1/2030	18.31	2030
9/1/2030	17.50	16.67	0%	17.50	0.816	9/1/2030	18.31	2030
10/1/2030	17.50	16.36	0%	17.50	0.816	10/1/2030	18.31	2030
11/1/2030	17.50	16.09	0%	17.50	0.816	11/1/2030	18.31	2030
12/1/2030	17.50	16.12	0%	17.50	0.816	12/1/2030	18.31	2030
1/1/2031	17.89	16.29	0%	17.89	0.828	1/1/2031	18.72	2031
2/1/2031	17.89	16.31	0%	17.89	0.828	2/1/2031	18.72	2031
3/1/2031	17.89	16.33	0%	17.89	0.828	3/1/2031	18.72	2031
4/1/2031	17.89	16.35	0%	17.89	0.828	4/1/2031	18.72	2031
5/1/2031	17.89	16.38	0%	17.89	0.828	5/1/2031	18.72	2031
6/1/2031	17.89	16.40	0%	17.89	0.828	6/1/2031	18.72	2031
7/1/2031	17.89	16.32	0%	17.89	0.828	7/1/2031	18.72	2031
8/1/2031	17.89	16.32	0%	17.89	0.828	8/1/2031	18.72	2031
9/1/2031	17.89	17.01	0%	17.89	0.828	9/1/2031	18.72	2031
10/1/2031	17.89	16.69	0%	17.89	0.828	10/1/2031	18.72	2031
11/1/2031	17.89	16.41	0%	17.89	0.828	11/1/2031	18.72	2031
12/1/2031	17.89	16.44	0%	17.89	0.828	12/1/2031	18.72	2031
1/1/2032	18.30	16.62	0%	18.30	0.841	1/1/2032	19.14	2032
2/1/2032	18.30	16.64	0%	18.30	0.841	2/1/2032	19.14	2032
3/1/2032	18.30	16.66	0%	18.30	0.841	3/1/2032	19.14	2032
4/1/2032	18.30	16.68	0%	18.30	0.841	4/1/2032	19.14	2032
5/1/2032	18.30	16.70	0%	18.30	0.841	5/1/2032	19.14	2032
6/1/2032	18.30	16.72	0%	18.30	0.841	6/1/2032	19.14	2032
7/1/2032	18.30	16.65	0%	18.30	0.841	7/1/2032	19.14	2032
8/1/2032	18.30	16.65	0%	18.30	0.841	8/1/2032	19.14	2032
9/1/2032	18.30	17.35	0%	18.30	0.841	9/1/2032	19.14	2032
10/1/2032	18.30	17.02	0%	18.30	0.841	10/1/2032	19.14	2032
11/1/2032	18.30	16.74	0%	18.30	0.841	11/1/2032	19.14	2032
12/1/2032	18.30	16.77	0%	18.30	0.841	12/1/2032	19.14	2032
1/1/2033	18.73	16.95	0%	18.73	0.853	1/1/2033	19.58	2033
2/1/2033	18.73	16.97	0%	18.73	0.853	2/1/2033	19.58	2033
3/1/2033	18.73	16.99	0%	18.73	0.853	3/1/2033	19.58	2033
4/1/2033	18.73	17.01	0%	18.73	0.853	4/1/2033	19.58	2033
5/1/2033	18.73	17.04	0%	18.73	0.853	5/1/2033	19.58	2033
6/1/2033	18.73	17.06	0%	18.73	0.853	6/1/2033	19.58	2033
7/1/2033	18.73	16.98	0%	18.73	0.853	7/1/2033	19.58	2033
8/1/2033	18.73	16.98	0%	18.73	0.853	8/1/2033	19.58	2033
9/1/2033	18.73	17.69	0%	18.73	0.853	9/1/2033	19.58	2033
10/1/2033	18.73	17.36	0%	18.73	0.853	10/1/2033	19.58	2033
11/1/2033	18.73	17.07	0%	18.73	0.853	11/1/2033	19.58	2033
12/1/2033	18.73	17.10	0%	18.73	0.853	12/1/2033	19.58	2033
1/1/2034	19.16	17.29	0%	19.16	0.866	1/1/2034	20.02	2034
2/1/2034	19.16	17.31	0%	19.16	0.866	2/1/2034	20.02	2034
3/1/2034	19.16	17.33	0%	19.16	0.866	3/1/2034	20.02	2034
4/1/2034	19.16	17.36	0%	19.16	0.866	4/1/2034	20.02	2034
5/1/2034	19.16	17.38	0%	19.16	0.866	5/1/2034	20.02	2034
6/1/2034	19.16	17.40	0%	19.16	0.866	6/1/2034	20.02	2034
7/1/2034	19.16	17.32	0%	19.16	0.866	7/1/2034	20.02	2034
8/1/2034	19.16	17.32	0%	19.16	0.866	8/1/2034	20.02	2034
9/1/2034	19.16	18.05	0%	19.16	0.866	9/1/2034	20.02	2034
10/1/2034	19.16	17.71	0%	19.16	0.866	10/1/2034	20.02	2034
11/1/2034	19.16	17.41	0%	19.16	0.866	11/1/2034	20.02	2034
12/1/2034	19.16	17.44	0%	19.16	0.866	12/1/2034	20.02	2034
1/1/2035	19.60	17.63	0%	19.60	0.879	1/1/2035	20.48	2035
2/1/2035	19.60	17.66	0%	19.60	0.879	2/1/2035	20.48	2035
3/1/2035	19.60	17.68	0%	19.60	0.879	3/1/2035	20.48	2035
4/1/2035	19.60	17.70	0%	19.60	0.879	4/1/2035	20.48	2035
5/1/2035	19.60	17.73	0%	19.60	0.879	5/1/2035	20.48	2035
6/1/2035	19.60	17.75	0%	19.60	0.879	6/1/2035	20.48	2035
7/1/2035	19.60	17.67	0%	19.60	0.879	7/1/2035	20.48	2035
8/1/2035	19.60	17.67	0%	19.60	0.879	8/1/2035	20.48	2035
9/1/2035	19.60	18.41	0%	19.60	0.879	9/1/2035	20.48	2035
10/1/2035	19.60	18.06	0%	19.60	0.879	10/1/2035	20.48	2035
11/1/2035	19.60	17.76	0%	19.60	0.879	11/1/2035	20.48	2035
12/1/2035	19.60	17.79	0%	19.60	0.879	12/1/2035	20.48	2035
1/1/2036	20.05	17.99	0%	20.05	0.879	1/1/2036	20.93	2036
2/1/2036	20.05	18.01	0%	20.05	0.879	2/1/2036	20.93	2036
3/1/2036	20.05	18.03	0%	20.05	0.892	3/1/2036	20.94	2036

4/1/2036	20.05	18.06	0%	20.05	0.892	4/1/2036	20.94	2036
5/1/2036	20.05	18.08	0%	20.05	0.892	5/1/2036	20.94	2036
6/1/2036	20.05	18.10	0%	20.05	0.892	6/1/2036	20.94	2036
7/1/2036	20.05	18.02	0%	20.05	0.892	7/1/2036	20.94	2036
8/1/2036	20.05	18.02	0%	20.05	0.892	8/1/2036	20.94	2036
9/1/2036	20.05	18.78	0%	20.05	0.892	9/1/2036	20.94	2036
10/1/2036	20.05	18.42	0%	20.05	0.892	10/1/2036	20.94	2036
11/1/2036	20.05	18.12	0%	20.05	0.892	11/1/2036	20.94	2036
12/1/2036	20.05	18.15	0%	20.05	0.892	12/1/2036	20.94	2036
1/1/2037	20.52	18.35	0%	20.52	0.892	1/1/2037	21.41	2037
2/1/2037	20.52	18.37	0%	20.52	0.892	2/1/2037	21.41	2037
3/1/2037	20.52	18.39	0%	20.52	0.906	3/1/2037	21.43	2037
4/1/2037	20.52	18.42	0%	20.52	0.906	4/1/2037	21.43	2037
5/1/2037	20.52	18.44	0%	20.52	0.906	5/1/2037	21.43	2037
6/1/2037	20.52	18.47	0%	20.52	0.906	6/1/2037	21.43	2037
7/1/2037	20.52	18.38	0%	20.52	0.906	7/1/2037	21.43	2037
8/1/2037	20.52	18.38	0%	20.52	0.906	8/1/2037	21.43	2037
9/1/2037	20.52	19.15	0%	20.52	0.906	9/1/2037	21.43	2037
10/1/2037	20.52	18.79	0%	20.52	0.906	10/1/2037	21.43	2037
11/1/2037	20.52	18.48	0%	20.52	0.906	11/1/2037	21.43	2037
12/1/2037	20.52	18.51	0%	20.52	0.906	12/1/2037	21.43	2037
1/1/2038	20.91	18.71	0%	20.91	0.906	1/1/2038	21.81	2038
2/1/2038	20.91	18.74	0%	20.91	0.906	2/1/2038	21.81	2038
3/1/2038	20.91	18.76	0%	20.91	0.919	3/1/2038	21.83	2038
4/1/2038	20.91	18.79	0%	20.91	0.919	4/1/2038	21.83	2038
5/1/2038	20.91	18.81	0%	20.91	0.919	5/1/2038	21.83	2038
6/1/2038	20.91	18.83	0%	20.91	0.919	6/1/2038	21.83	2038
7/1/2038	20.91	18.75	0%	20.91	0.919	7/1/2038	21.83	2038
8/1/2038	20.91	18.75	0%	20.91	0.919	8/1/2038	21.83	2038
9/1/2038	20.91	19.53	0%	20.91	0.919	9/1/2038	21.83	2038
10/1/2038	20.91	19.17	0%	20.91	0.919	10/1/2038	21.83	2038
11/1/2038	20.91	18.85	0%	20.91	0.919	11/1/2038	21.83	2038
12/1/2038	20.91	18.88	0%	20.91	0.919	12/1/2038	21.83	2038
1/1/2039	21.29	19.09	0%	21.29	0.919	1/1/2039	22.21	2039
2/1/2039	21.29	19.11	0%	21.29	0.919	2/1/2039	22.21	2039
3/1/2039	21.29	19.14	0%	21.29	0.933	3/1/2039	22.22	2039
4/1/2039	21.29	19.16	0%	21.29	0.933	4/1/2039	22.22	2039
5/1/2039	21.29	19.19	0%	21.29	0.933	5/1/2039	22.22	2039
6/1/2039	21.29	19.21	0%	21.29	0.933	6/1/2039	22.22	2039
7/1/2039	21.29	19.13	0%	21.29	0.933	7/1/2039	22.22	2039
8/1/2039	21.29	19.13	0%	21.29	0.933	8/1/2039	22.22	2039
9/1/2039	21.29	19.93	0%	21.29	0.933	9/1/2039	22.22	2039
10/1/2039	21.29	19.55	0%	21.29	0.933	10/1/2039	22.22	2039
11/1/2039	21.29	19.22	0%	21.29	0.933	11/1/2039	22.22	2039
12/1/2039	21.29	19.26	0%	21.29	0.933	12/1/2039	22.22	2039
1/1/2040	21.42	19.47	0%	21.42	0.933	1/1/2040	22.35	2040
2/1/2040	21.42	19.49	0%	21.42	0.933	2/1/2040	22.35	2040
3/1/2040	21.42	19.52	0%	21.42	0.947	3/1/2040	22.37	2040
4/1/2040	21.42	19.54	0%	21.42	0.947	4/1/2040	22.37	2040
5/1/2040	21.42	19.57	0%	21.42	0.947	5/1/2040	22.37	2040
6/1/2040	21.42	19.60	0%	21.42	0.947	6/1/2040	22.37	2040
7/1/2040	21.42	19.51	0%	21.42	0.947	7/1/2040	22.37	2040
8/1/2040	21.42	19.51	0%	21.42	0.947	8/1/2040	22.37	2040
9/1/2040	21.42	20.32	0%	21.42	0.947	9/1/2040	22.37	2040
10/1/2040	21.42	19.94	0%	21.42	0.947	10/1/2040	22.37	2040
11/1/2040	21.42	19.61	0%	21.42	0.947	11/1/2040	22.37	2040
12/1/2040	21.42	19.64	0%	21.42	0.947	12/1/2040	22.37	2040
1/1/2041	21.98	19.86	0%	21.98	0.947	1/1/2041	22.92	2041
2/1/2041	21.98	19.88	0%	21.98	0.947	2/1/2041	22.92	2041
3/1/2041	21.98	19.91	0%	21.98	0.961	3/1/2041	22.94	2041
4/1/2041	21.98	19.94	0%	21.98	0.961	4/1/2041	22.94	2041
5/1/2041	21.98	19.96	0%	21.98	0.961	5/1/2041	22.94	2041
6/1/2041	21.98	19.99	0%	21.98	0.961	6/1/2041	22.94	2041
7/1/2041	21.98	19.90	0%	21.98	0.961	7/1/2041	22.94	2041
8/1/2041	21.98	19.90	0%	21.98	0.961	8/1/2041	22.94	2041
9/1/2041	21.98	20.73	0%	21.98	0.961	9/1/2041	22.94	2041
10/1/2041	21.98	20.34	0%	21.98	0.961	10/1/2041	22.94	2041
11/1/2041	21.98	20.00	0%	21.98	0.961	11/1/2041	22.94	2041
12/1/2041	21.98	20.04	0%	21.98	0.961	12/1/2041	22.94	2041
1/1/2042	22.55	20.25	0%	22.55	0.961	1/1/2042	23.51	2042
2/1/2042	22.55	20.28	0%	22.55	0.961	2/1/2042	23.51	2042

3/1/2042	22.55	20.31	0%	22.55	0.976	3/1/2042	23.53	2042
4/1/2042	22.55	20.33	0%	22.55	0.976	4/1/2042	23.53	2042
5/1/2042	22.55	20.36	0%	22.55	0.976	5/1/2042	23.53	2042
6/1/2042	22.55	20.39	0%	22.55	0.976	6/1/2042	23.53	2042
7/1/2042	22.55	20.30	0%	22.55	0.976	7/1/2042	23.53	2042
8/1/2042	22.55	20.30	0%	22.55	0.976	8/1/2042	23.53	2042
9/1/2042	22.55	21.14	0%	22.55	0.976	9/1/2042	23.53	2042
10/1/2042	22.55	20.75	0%	22.55	0.976	10/1/2042	23.53	2042
11/1/2042	22.55	20.40	0%	22.55	0.976	11/1/2042	23.53	2042
12/1/2042	22.55	20.44	0%	22.55	0.976	12/1/2042	23.53	2042
1/1/2043	22.74	20.66	0%	22.74	0.976	1/1/2043	23.71	2043
2/1/2043	22.74	20.69	0%	22.74	0.976	2/1/2043	23.71	2043
3/1/2043	22.74	20.71	0%	22.74	0.990	3/1/2043	23.73	2043
4/1/2043	22.74	20.74	0%	22.74	0.990	4/1/2043	23.73	2043
5/1/2043	22.74	20.77	0%	22.74	0.990	5/1/2043	23.73	2043
6/1/2043	22.74	20.80	0%	22.74	0.990	6/1/2043	23.73	2043
7/1/2043	22.74	20.70	0%	22.74	0.990	7/1/2043	23.73	2043
8/1/2043	22.74	20.70	0%	22.74	0.990	8/1/2043	23.73	2043
9/1/2043	22.74	21.57	0%	22.74	0.990	9/1/2043	23.73	2043
10/1/2043	22.74	21.16	0%	22.74	0.990	10/1/2043	23.73	2043
11/1/2043	22.74	20.81	0%	22.74	0.990	11/1/2043	23.73	2043
12/1/2043	22.74	20.85	0%	22.74	0.990	12/1/2043	23.73	2043
1/1/2044	23.33	21.07	0%	23.33	0.990	1/1/2044	24.32	2044
2/1/2044	23.33	21.10	0%	23.33	0.990	2/1/2044	24.32	2044
3/1/2044	23.33	21.13	0%	23.33	1.005	3/1/2044	24.34	2044
4/1/2044	23.33	21.16	0%	23.33	1.005	4/1/2044	24.34	2044
5/1/2044	23.33	21.18	0%	23.33	1.005	5/1/2044	24.34	2044
6/1/2044	23.33	21.21	0%	23.33	1.005	6/1/2044	24.34	2044
7/1/2044	23.33	21.12	0%	23.33	1.005	7/1/2044	24.34	2044
8/1/2044	23.33	21.12	0%	23.33	1.005	8/1/2044	24.34	2044
9/1/2044	23.33	22.00	0%	23.33	1.005	9/1/2044	24.34	2044
10/1/2044	23.33	21.59	0%	23.33	1.005	10/1/2044	24.34	2044
11/1/2044	23.33	21.22	0%	23.33	1.005	11/1/2044	24.34	2044
12/1/2044	23.33	21.26	0%	23.33	1.005	12/1/2044	24.34	2044
1/1/2045	23.52	21.49	0%	23.52	1.005	1/1/2045	24.52	2045
2/1/2045	23.52	21.52	0%	23.52	1.005	2/1/2045	24.52	2045
3/1/2045	23.52	21.55	0%	23.52	1.020	3/1/2045	24.54	2045
4/1/2045	23.52	21.58	0%	23.52	1.020	4/1/2045	24.54	2045
5/1/2045	23.52	21.61	0%	23.52	1.020	5/1/2045	24.54	2045
6/1/2045	23.52	21.64	0%	23.52	1.020	6/1/2045	24.54	2045
7/1/2045	23.52	21.54	0%	23.52	1.020	7/1/2045	24.54	2045
8/1/2045	23.52	21.54	0%	23.52	1.020	8/1/2045	24.54	2045
9/1/2045	23.52	22.44	0%	23.52	1.020	9/1/2045	24.54	2045
10/1/2045	23.52	22.02	0%	23.52	1.020	10/1/2045	24.54	2045
11/1/2045	23.52	21.65	0%	23.52	1.020	11/1/2045	24.54	2045
12/1/2045	23.52	21.69	0%	23.52	1.020	12/1/2045	24.54	2045
1/1/2046	24.12	21.92	0%	24.12	1.020	1/1/2046	25.14	2046
2/1/2046	24.12	21.95	0%	24.12	1.020	2/1/2046	25.14	2046
3/1/2046	24.12	21.98	0%	24.12	1.035	3/1/2046	25.15	2046
4/1/2046	24.12	22.01	0%	24.12	1.035	4/1/2046	25.15	2046
5/1/2046	24.12	22.04	0%	24.12	1.035	5/1/2046	25.15	2046
6/1/2046	24.12	22.07	0%	24.12	1.035	6/1/2046	25.15	2046
7/1/2046	24.12	21.97	0%	24.12	1.035	7/1/2046	25.15	2046
8/1/2046	24.12	21.97	0%	24.12	1.035	8/1/2046	25.15	2046
9/1/2046	24.12	22.89	0%	24.12	1.035	9/1/2046	25.15	2046
10/1/2046	24.12	22.46	0%	24.12	1.035	10/1/2046	25.15	2046
11/1/2046	24.12	22.08	0%	24.12	1.035	11/1/2046	25.15	2046
12/1/2046	24.12	22.12	0%	24.12	1.035	12/1/2046	25.15	2046
1/1/2047	24.73	22.36	0%	24.73	1.035	1/1/2047	25.76	2047
2/1/2047	24.73	22.39	0%	24.73	1.035	2/1/2047	25.76	2047
3/1/2047	24.73	22.42	0%	24.73	1.051	3/1/2047	25.78	2047
4/1/2047	24.73	22.45	0%	24.73	1.051	4/1/2047	25.78	2047
5/1/2047	24.73	22.48	0%	24.73	1.051	5/1/2047	25.78	2047
6/1/2047	24.73	22.51	0%	24.73	1.051	6/1/2047	25.78	2047
7/1/2047	24.73	22.41	0%	24.73	1.051	7/1/2047	25.78	2047
8/1/2047	24.73	22.41	0%	24.73	1.051	8/1/2047	25.78	2047
9/1/2047	24.73	23.35	0%	24.73	1.051	9/1/2047	25.78	2047
10/1/2047	24.73	22.91	0%	24.73	1.051	10/1/2047	25.78	2047
11/1/2047	24.73	22.52	0%	24.73	1.051	11/1/2047	25.78	2047
12/1/2047	24.73	22.57	0%	24.73	1.051	12/1/2047	25.78	2047
1/1/2048	24.91	22.81	0%	24.91	1.051	1/1/2048	25.96	2048

2/1/2048	24.91	22.84	0%	24.91	1.051	2/1/2048	25.96	2048
3/1/2048	24.91	22.87	0%	24.91	1.067	3/1/2048	25.97	2048
4/1/2048	24.91	22.90	0%	24.91	1.067	4/1/2048	25.97	2048
5/1/2048	24.91	22.93	0%	24.91	1.067	5/1/2048	25.97	2048
6/1/2048	24.91	22.96	0%	24.91	1.067	6/1/2048	25.97	2048
7/1/2048	24.91	22.86	0%	24.91	1.067	7/1/2048	25.97	2048
8/1/2048	24.91	22.86	0%	24.91	1.067	8/1/2048	25.97	2048
9/1/2048	24.91	23.81	0%	24.91	1.067	9/1/2048	25.97	2048
10/1/2048	24.91	23.37	0%	24.91	1.067	10/1/2048	25.97	2048
11/1/2048	24.91	22.97	0%	24.91	1.067	11/1/2048	25.97	2048
12/1/2048	24.91	23.02	0%	24.91	1.067	12/1/2048	25.97	2048
1/1/2049	25.53	23.27	0%	25.53	1.067	1/1/2049	26.60	2049
2/1/2049	25.53	23.30	0%	25.53	1.067	2/1/2049	26.60	2049
3/1/2049	25.53	23.33	0%	25.53	1.083	3/1/2049	26.62	2049
4/1/2049	25.53	23.36	0%	25.53	1.083	4/1/2049	26.62	2049
5/1/2049	25.53	23.39	0%	25.53	1.083	5/1/2049	26.62	2049
6/1/2049	25.53	23.42	0%	25.53	1.083	6/1/2049	26.62	2049
7/1/2049	25.53	23.32	0%	25.53	1.083	7/1/2049	26.62	2049
8/1/2049	25.53	23.32	0%	25.53	1.083	8/1/2049	26.62	2049
9/1/2049	25.53	24.29	0%	25.53	1.083	9/1/2049	26.62	2049
10/1/2049	25.53	23.83	0%	25.53	1.083	10/1/2049	26.62	2049
11/1/2049	25.53	23.43	0%	25.53	1.083	11/1/2049	26.62	2049
12/1/2049	25.53	23.48	0%	25.53	1.083	12/1/2049	26.62	2049
1/1/2050	25.53	23.73	0%	25.53	1.083	1/1/2050	26.62	2050
2/1/2050	25.53	23.76	0%	25.53	1.083	2/1/2050	26.62	2050
3/1/2050	25.53	23.79	0%	25.53	1.099	3/1/2050	26.63	2050
4/1/2050	25.53	23.83	0%	25.53	1.099	4/1/2050	26.63	2050
5/1/2050	25.53	23.86	0%	25.53	1.099	5/1/2050	26.63	2050
6/1/2050	25.53	23.89	0%	25.53	1.099	6/1/2050	26.63	2050
7/1/2050	25.53	23.78	0%	25.53	1.099	7/1/2050	26.63	2050
8/1/2050	25.53	23.78	0%	25.53	1.099	8/1/2050	26.63	2050
9/1/2050	25.53	24.77	0%	25.53	1.099	9/1/2050	26.63	2050
10/1/2050	25.53	24.31	0%	25.53	1.099	10/1/2050	26.63	2050
11/1/2050	25.53	23.90	0%	25.53	1.099	11/1/2050	26.63	2050
12/1/2050	25.53	23.95	0%	25.53	1.099	12/1/2050	26.63	2050

Hines

PETROLEUM PRODUCT PRICE FORECAST DATA

PROSYM INPUT

ANNUAL AVERAGE

Date	Petroleum Product Price Forecast - Gulf Coast	TCM	Blend TCM/ Fundamental (%)	Blend TCM/ Fundamental ($)	Hines Transport ($/MMBtu)
1/1/2019	14.62	12.93	100%	12.93	0.505
2/1/2019	14.62	13.87	100%	13.87	0.505
3/1/2019	14.62	13.78	100%	13.78	0.505
4/1/2019	14.62	14.33	100%	14.33	0.505
5/1/2019	14.62	14.29	100%	14.29	0.505
6/1/2019	14.62	13.17	100%	13.17	0.505
7/1/2019	14.62	13.86	100%	13.86	0.505
8/1/2019	14.62	13.04	100%	13.04	0.505
9/1/2019	14.62	13.58	100%	13.58	0.505
10/1/2019	14.62	13.31	100%	13.31	0.505
11/1/2019	14.62	13.08	100%	13.08	0.505
12/1/2019	14.62	13.09	100%	13.09	0.505
1/1/2020	13.66	13.80	100%	13.80	0.513
2/1/2020	13.66	14.09	100%	14.09	0.513
3/1/2020	13.66	14.60	100%	14.60	0.513
4/1/2020	13.66	14.42	100%	14.42	0.513
5/1/2020	13.66	13.11	100%	13.11	0.513
6/1/2020	13.66	13.60	100%	13.60	0.513
7/1/2020	13.66	12.98	100%	12.98	0.513
8/1/2020	13.66	13.82	100%	13.82	0.513
9/1/2020	13.66	13.64	100%	13.64	0.513
10/1/2020	13.66	13.38	100%	13.38	0.513
11/1/2020	13.66	13.16	100%	13.16	0.513
12/1/2020	13.66	13.18	100%	13.18	0.513
1/1/2021	13.38	13.24	100%	13.24	0.520
2/1/2021	13.38	13.26	100%	13.26	0.520
3/1/2021	13.38	13.28	100%	13.28	0.520
4/1/2021	13.38	13.30	100%	13.30	0.520
5/1/2021	13.38	13.31	100%	13.31	0.520
6/1/2021	13.38	13.33	100%	13.33	0.520
7/1/2021	13.38	13.33	100%	13.33	0.520
8/1/2021	13.38	13.33	100%	13.33	0.520
9/1/2021	13.38	13.89	100%	13.89	0.520
10/1/2021	13.38	13.63	100%	13.63	0.520
11/1/2021	13.38	13.40	100%	13.40	0.520
12/1/2021	13.38	13.42	100%	13.42	0.520
1/1/2022	13.44	13.57	96%	13.57	0.528
2/1/2022	13.44	13.59	92%	13.58	0.528
3/1/2022	13.44	13.61	88%	13.59	0.528
4/1/2022	13.44	13.62	84%	13.60	0.528
5/1/2022	13.44	13.64	80%	13.60	0.528
6/1/2022	13.44	13.66	76%	13.61	0.528
7/1/2022	13.44	13.66	72%	13.60	0.528
8/1/2022	13.44	13.66	68%	13.59	0.528
9/1/2022	13.44	14.23	64%	13.95	0.528
10/1/2022	13.44	13.96	60%	13.76	0.528
11/1/2022	13.44	13.73	56%	13.60	0.528
12/1/2022	13.44	13.75	52%	13.60	0.528
1/1/2023	13.75	13.90	48%	13.82	0.536
2/1/2023	13.75	13.92	44%	13.83	0.536
3/1/2023	13.75	13.94	40%	13.83	0.536
4/1/2023	13.75	13.96	36%	13.82	0.536
5/1/2023	13.75	13.98	32%	13.82	0.536
6/1/2023	13.75	13.99	28%	13.82	0.536
7/1/2023	13.75	13.93	24%	13.79	0.536
8/1/2023	13.75	13.93	20%	13.79	0.536
9/1/2023	13.75	14.51	16%	13.87	0.536
10/1/2023	13.75	14.24	12%	13.81	0.536
11/1/2023	13.75	14.00	8%	13.77	0.536
12/1/2023	13.75	14.03	4%	13.76	0.536
1/1/2024	14.08	14.18	0%	14.08	0.544
2/1/2024	14.08	14.20	0%	14.08	0.544
3/1/2024	14.08	14.22	0%	14.08	0.544
4/1/2024	14.08	14.24	0%	14.08	0.544
5/1/2024	14.08	14.26	0%	14.08	0.544

Date	nomianl$/MMBtu
1/1/2019	13.43
2/1/2019	14.37
3/1/2019	14.29
4/1/2019	14.83
5/1/2019	14.79
6/1/2019	13.67
7/1/2019	14.37
8/1/2019	13.55
9/1/2019	14.08
10/1/2019	13.82
11/1/2019	13.58
12/1/2019	13.59
1/1/2020	14.32
2/1/2020	14.61
3/1/2020	15.11
4/1/2020	14.94
5/1/2020	13.62
6/1/2020	14.11
7/1/2020	13.50
8/1/2020	14.33
9/1/2020	14.15
10/1/2020	13.89
11/1/2020	13.67
12/1/2020	13.69
1/1/2021	13.76
2/1/2021	13.78
3/1/2021	13.80
4/1/2021	13.82
5/1/2021	13.83
6/1/2021	13.85
7/1/2021	13.85
8/1/2021	13.85
9/1/2021	14.41
10/1/2021	14.15
11/1/2021	13.92
12/1/2021	13.94
1/1/2022	14.09
2/1/2022	14.10
3/1/2022	14.11
4/1/2022	14.12
5/1/2022	14.13
6/1/2022	14.14
7/1/2022	14.13
8/1/2022	14.12
9/1/2022	14.47
10/1/2022	14.28
11/1/2022	14.13
12/1/2022	14.13
1/1/2023	14.36
2/1/2023	14.36
3/1/2023	14.36
4/1/2023	14.36
5/1/2023	14.36
6/1/2023	14.35
7/1/2023	14.33
8/1/2023	14.32
9/1/2023	14.41
10/1/2023	14.34
11/1/2023	14.31
12/1/2023	14.30
1/1/2024	14.63
2/1/2024	14.63
3/1/2024	14.63
4/1/2024	14.63
5/1/2024	14.63

2019	2019	14.03
2019	2020	14.16
2019	2021	13.91
2019	2022	14.16
2019	2023	14.35
2019	2024	14.63
2019	2025	14.99
2019	2026	15.56
2019	2027	16.21
2019	2028	16.97
2019	2029	17.66
2019	2030	18.09
2020	2031	18.50
2020	2032	18.91
2020	2033	19.35
2020	2034	19.79
2020	2035	20.24
2020	2036	20.70
2020	2037	21.18
2020	2038	21.58
2020	2039	21.96
2020	2040	22.11
2020	2041	22.68
2020	2042	23.26
2021	2043	23.46
2021	2044	24.06
2021	2045	24.26
2021	2046	24.87
2021	2047	25.49
2021	2048	25.68
2021	2049	26.32
2021	2050	26.33
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6/1/2024	14.08	14.27	0%	14.08	0.544	6/1/2024	14.63	2024
7/1/2024	14.08	14.21	0%	14.08	0.544	7/1/2024	14.63	2024
8/1/2024	14.08	14.21	0%	14.08	0.544	8/1/2024	14.63	2024
9/1/2024	14.08	14.80	0%	14.08	0.544	9/1/2024	14.63	2024
10/1/2024	14.08	14.53	0%	14.08	0.544	10/1/2024	14.63	2024
11/1/2024	14.08	14.28	0%	14.08	0.544	11/1/2024	14.63	2024
12/1/2024	14.08	14.31	0%	14.08	0.544	12/1/2024	14.63	2024
1/1/2025	14.43	14.47	0%	14.43	0.552	1/1/2025	14.99	2025
2/1/2025	14.43	14.48	0%	14.43	0.552	2/1/2025	14.99	2025
3/1/2025	14.43	14.50	0%	14.43	0.552	3/1/2025	14.99	2025
4/1/2025	14.43	14.52	0%	14.43	0.552	4/1/2025	14.99	2025
5/1/2025	14.43	14.54	0%	14.43	0.552	5/1/2025	14.99	2025
6/1/2025	14.43	14.56	0%	14.43	0.552	6/1/2025	14.99	2025
7/1/2025	14.43	14.50	0%	14.43	0.552	7/1/2025	14.99	2025
8/1/2025	14.43	14.50	0%	14.43	0.552	8/1/2025	14.99	2025
9/1/2025	14.43	15.10	0%	14.43	0.552	9/1/2025	14.99	2025
10/1/2025	14.43	14.82	0%	14.43	0.552	10/1/2025	14.99	2025
11/1/2025	14.43	14.57	0%	14.43	0.552	11/1/2025	14.99	2025
12/1/2025	14.43	14.60	0%	14.43	0.552	12/1/2025	14.99	2025
1/1/2026	15.00	14.75	0%	15.00	0.561	1/1/2026	15.56	2026
2/1/2026	15.00	14.77	0%	15.00	0.561	2/1/2026	15.56	2026
3/1/2026	15.00	14.79	0%	15.00	0.561	3/1/2026	15.56	2026
4/1/2026	15.00	14.81	0%	15.00	0.561	4/1/2026	15.56	2026
5/1/2026	15.00	14.83	0%	15.00	0.561	5/1/2026	15.56	2026
6/1/2026	15.00	14.85	0%	15.00	0.561	6/1/2026	15.56	2026
7/1/2026	15.00	14.79	0%	15.00	0.561	7/1/2026	15.56	2026
8/1/2026	15.00	14.79	0%	15.00	0.561	8/1/2026	15.56	2026
9/1/2026	15.00	15.40	0%	15.00	0.561	9/1/2026	15.56	2026
10/1/2026	15.00	15.11	0%	15.00	0.561	10/1/2026	15.56	2026
11/1/2026	15.00	14.86	0%	15.00	0.561	11/1/2026	15.56	2026
12/1/2026	15.00	14.89	0%	15.00	0.561	12/1/2026	15.56	2026
1/1/2027	15.64	15.05	0%	15.64	0.569	1/1/2027	16.21	2027
2/1/2027	15.64	15.07	0%	15.64	0.569	2/1/2027	16.21	2027
3/1/2027	15.64	15.09	0%	15.64	0.569	3/1/2027	16.21	2027
4/1/2027	15.64	15.11	0%	15.64	0.569	4/1/2027	16.21	2027
5/1/2027	15.64	15.13	0%	15.64	0.569	5/1/2027	16.21	2027
6/1/2027	15.64	15.15	0%	15.64	0.569	6/1/2027	16.21	2027
7/1/2027	15.64	15.08	0%	15.64	0.569	7/1/2027	16.21	2027
8/1/2027	15.64	15.08	0%	15.64	0.569	8/1/2027	16.21	2027
9/1/2027	15.64	15.71	0%	15.64	0.569	9/1/2027	16.21	2027
10/1/2027	15.64	15.42	0%	15.64	0.569	10/1/2027	16.21	2027
11/1/2027	15.64	15.16	0%	15.64	0.569	11/1/2027	16.21	2027
12/1/2027	15.64	15.19	0%	15.64	0.569	12/1/2027	16.21	2027
1/1/2028	16.39	15.35	0%	16.39	0.577	1/1/2028	16.97	2028
2/1/2028	16.39	15.37	0%	16.39	0.577	2/1/2028	16.97	2028
3/1/2028	16.39	15.39	0%	16.39	0.577	3/1/2028	16.97	2028
4/1/2028	16.39	15.41	0%	16.39	0.577	4/1/2028	16.97	2028
5/1/2028	16.39	15.43	0%	16.39	0.577	5/1/2028	16.97	2028
6/1/2028	16.39	15.45	0%	16.39	0.577	6/1/2028	16.97	2028
7/1/2028	16.39	15.38	0%	16.39	0.577	7/1/2028	16.97	2028
8/1/2028	16.39	15.38	0%	16.39	0.577	8/1/2028	16.97	2028
9/1/2028	16.39	16.03	0%	16.39	0.577	9/1/2028	16.97	2028
10/1/2028	16.39	15.73	0%	16.39	0.577	10/1/2028	16.97	2028
11/1/2028	16.39	15.46	0%	16.39	0.577	11/1/2028	16.97	2028
12/1/2028	16.39	15.49	0%	16.39	0.577	12/1/2028	16.97	2028
1/1/2029	17.07	15.66	0%	17.07	0.586	1/1/2029	17.66	2029
2/1/2029	17.07	15.68	0%	17.07	0.586	2/1/2029	17.66	2029
3/1/2029	17.07	15.70	0%	17.07	0.586	3/1/2029	17.66	2029
4/1/2029	17.07	15.72	0%	17.07	0.586	4/1/2029	17.66	2029
5/1/2029	17.07	15.74	0%	17.07	0.586	5/1/2029	17.66	2029
6/1/2029	17.07	15.76	0%	17.07	0.586	6/1/2029	17.66	2029
7/1/2029	17.07	15.69	0%	17.07	0.586	7/1/2029	17.66	2029
8/1/2029	17.07	15.69	0%	17.07	0.586	8/1/2029	17.66	2029
9/1/2029	17.07	16.35	0%	17.07	0.586	9/1/2029	17.66	2029
10/1/2029	17.07	16.04	0%	17.07	0.586	10/1/2029	17.66	2029
11/1/2029	17.07	15.77	0%	17.07	0.586	11/1/2029	17.66	2029
12/1/2029	17.07	15.80	0%	17.07	0.586	12/1/2029	17.66	2029
1/1/2030	17.50	15.97	0%	17.50	0.595	1/1/2030	18.09	2030
2/1/2030	17.50	15.99	0%	17.50	0.595	2/1/2030	18.09	2030
3/1/2030	17.50	16.01	0%	17.50	0.595	3/1/2030	18.09	2030
4/1/2030	17.50	16.03	0%	17.50	0.595	4/1/2030	18.09	2030

5/1/2030	17.50	16.05	0%	17.50	0.595	5/1/2030	18.09	2030
6/1/2030	17.50	16.08	0%	17.50	0.595	6/1/2030	18.09	2030
7/1/2030	17.50	16.00	0%	17.50	0.595	7/1/2030	18.09	2030
8/1/2030	17.50	16.00	0%	17.50	0.595	8/1/2030	18.09	2030
9/1/2030	17.50	16.67	0%	17.50	0.595	9/1/2030	18.09	2030
10/1/2030	17.50	16.36	0%	17.50	0.595	10/1/2030	18.09	2030
11/1/2030	17.50	16.09	0%	17.50	0.595	11/1/2030	18.09	2030
12/1/2030	17.50	16.12	0%	17.50	0.595	12/1/2030	18.09	2030
1/1/2031	17.89	16.29	0%	17.89	0.604	1/1/2031	18.50	2031
2/1/2031	17.89	16.31	0%	17.89	0.604	2/1/2031	18.50	2031
3/1/2031	17.89	16.33	0%	17.89	0.604	3/1/2031	18.50	2031
4/1/2031	17.89	16.35	0%	17.89	0.604	4/1/2031	18.50	2031
5/1/2031	17.89	16.38	0%	17.89	0.604	5/1/2031	18.50	2031
6/1/2031	17.89	16.40	0%	17.89	0.604	6/1/2031	18.50	2031
7/1/2031	17.89	16.32	0%	17.89	0.604	7/1/2031	18.50	2031
8/1/2031	17.89	16.32	0%	17.89	0.604	8/1/2031	18.50	2031
9/1/2031	17.89	17.01	0%	17.89	0.604	9/1/2031	18.50	2031
10/1/2031	17.89	16.69	0%	17.89	0.604	10/1/2031	18.50	2031
11/1/2031	17.89	16.41	0%	17.89	0.604	11/1/2031	18.50	2031
12/1/2031	17.89	16.44	0%	17.89	0.604	12/1/2031	18.50	2031
1/1/2032	18.30	16.62	0%	18.30	0.613	1/1/2032	18.91	2032
2/1/2032	18.30	16.64	0%	18.30	0.613	2/1/2032	18.91	2032
3/1/2032	18.30	16.66	0%	18.30	0.613	3/1/2032	18.91	2032
4/1/2032	18.30	16.68	0%	18.30	0.613	4/1/2032	18.91	2032
5/1/2032	18.30	16.70	0%	18.30	0.613	5/1/2032	18.91	2032
6/1/2032	18.30	16.72	0%	18.30	0.613	6/1/2032	18.91	2032
7/1/2032	18.30	16.65	0%	18.30	0.613	7/1/2032	18.91	2032
8/1/2032	18.30	16.65	0%	18.30	0.613	8/1/2032	18.91	2032
9/1/2032	18.30	17.35	0%	18.30	0.613	9/1/2032	18.91	2032
10/1/2032	18.30	17.02	0%	18.30	0.613	10/1/2032	18.91	2032
11/1/2032	18.30	16.74	0%	18.30	0.613	11/1/2032	18.91	2032
12/1/2032	18.30	16.77	0%	18.30	0.613	12/1/2032	18.91	2032
1/1/2033	18.73	16.95	0%	18.73	0.622	1/1/2033	19.35	2033
2/1/2033	18.73	16.97	0%	18.73	0.622	2/1/2033	19.35	2033
3/1/2033	18.73	16.99	0%	18.73	0.622	3/1/2033	19.35	2033
4/1/2033	18.73	17.01	0%	18.73	0.622	4/1/2033	19.35	2033
5/1/2033	18.73	17.04	0%	18.73	0.622	5/1/2033	19.35	2033
6/1/2033	18.73	17.06	0%	18.73	0.622	6/1/2033	19.35	2033
7/1/2033	18.73	16.98	0%	18.73	0.622	7/1/2033	19.35	2033
8/1/2033	18.73	16.98	0%	18.73	0.622	8/1/2033	19.35	2033
9/1/2033	18.73	17.69	0%	18.73	0.622	9/1/2033	19.35	2033
10/1/2033	18.73	17.36	0%	18.73	0.622	10/1/2033	19.35	2033
11/1/2033	18.73	17.07	0%	18.73	0.622	11/1/2033	19.35	2033
12/1/2033	18.73	17.10	0%	18.73	0.622	12/1/2033	19.35	2033
1/1/2034	19.16	17.29	0%	19.16	0.631	1/1/2034	19.79	2034
2/1/2034	19.16	17.31	0%	19.16	0.631	2/1/2034	19.79	2034
3/1/2034	19.16	17.33	0%	19.16	0.631	3/1/2034	19.79	2034
4/1/2034	19.16	17.36	0%	19.16	0.631	4/1/2034	19.79	2034
5/1/2034	19.16	17.38	0%	19.16	0.631	5/1/2034	19.79	2034
6/1/2034	19.16	17.40	0%	19.16	0.631	6/1/2034	19.79	2034
7/1/2034	19.16	17.32	0%	19.16	0.631	7/1/2034	19.79	2034
8/1/2034	19.16	17.32	0%	19.16	0.631	8/1/2034	19.79	2034
9/1/2034	19.16	18.05	0%	19.16	0.631	9/1/2034	19.79	2034
10/1/2034	19.16	17.71	0%	19.16	0.631	10/1/2034	19.79	2034
11/1/2034	19.16	17.41	0%	19.16	0.631	11/1/2034	19.79	2034
12/1/2034	19.16	17.44	0%	19.16	0.631	12/1/2034	19.79	2034
1/1/2035	19.60	17.63	0%	19.60	0.641	1/1/2035	20.24	2035
2/1/2035	19.60	17.66	0%	19.60	0.641	2/1/2035	20.24	2035
3/1/2035	19.60	17.68	0%	19.60	0.641	3/1/2035	20.24	2035
4/1/2035	19.60	17.70	0%	19.60	0.641	4/1/2035	20.24	2035
5/1/2035	19.60	17.73	0%	19.60	0.641	5/1/2035	20.24	2035
6/1/2035	19.60	17.75	0%	19.60	0.641	6/1/2035	20.24	2035
7/1/2035	19.60	17.67	0%	19.60	0.641	7/1/2035	20.24	2035
8/1/2035	19.60	17.67	0%	19.60	0.641	8/1/2035	20.24	2035
9/1/2035	19.60	18.41	0%	19.60	0.641	9/1/2035	20.24	2035
10/1/2035	19.60	18.06	0%	19.60	0.641	10/1/2035	20.24	2035
11/1/2035	19.60	17.76	0%	19.60	0.641	11/1/2035	20.24	2035
12/1/2035	19.60	17.79	0%	19.60	0.641	12/1/2035	20.24	2035
1/1/2036	20.05	17.99	0%	20.05	0.641	1/1/2036	20.69	2036
2/1/2036	20.05	18.01	0%	20.05	0.641	2/1/2036	20.69	2036
3/1/2036	20.05	18.03	0%	20.05	0.651	3/1/2036	20.70	2036

4/1/2036	20.05	18.06	0%	20.05	0.651	4/1/2036	20.70	2036
5/1/2036	20.05	18.08	0%	20.05	0.651	5/1/2036	20.70	2036
6/1/2036	20.05	18.10	0%	20.05	0.651	6/1/2036	20.70	2036
7/1/2036	20.05	18.02	0%	20.05	0.651	7/1/2036	20.70	2036
8/1/2036	20.05	18.02	0%	20.05	0.651	8/1/2036	20.70	2036
9/1/2036	20.05	18.78	0%	20.05	0.651	9/1/2036	20.70	2036
10/1/2036	20.05	18.42	0%	20.05	0.651	10/1/2036	20.70	2036
11/1/2036	20.05	18.12	0%	20.05	0.651	11/1/2036	20.70	2036
12/1/2036	20.05	18.15	0%	20.05	0.651	12/1/2036	20.70	2036
1/1/2037	20.52	18.35	0%	20.52	0.651	1/1/2037	21.17	2037
2/1/2037	20.52	18.37	0%	20.52	0.651	2/1/2037	21.17	2037
3/1/2037	20.52	18.39	0%	20.52	0.660	3/1/2037	21.18	2037
4/1/2037	20.52	18.42	0%	20.52	0.660	4/1/2037	21.18	2037
5/1/2037	20.52	18.44	0%	20.52	0.660	5/1/2037	21.18	2037
6/1/2037	20.52	18.47	0%	20.52	0.660	6/1/2037	21.18	2037
7/1/2037	20.52	18.38	0%	20.52	0.660	7/1/2037	21.18	2037
8/1/2037	20.52	18.38	0%	20.52	0.660	8/1/2037	21.18	2037
9/1/2037	20.52	19.15	0%	20.52	0.660	9/1/2037	21.18	2037
10/1/2037	20.52	18.79	0%	20.52	0.660	10/1/2037	21.18	2037
11/1/2037	20.52	18.48	0%	20.52	0.660	11/1/2037	21.18	2037
12/1/2037	20.52	18.51	0%	20.52	0.660	12/1/2037	21.18	2037
1/1/2038	20.91	18.71	0%	20.91	0.660	1/1/2038	21.57	2038
2/1/2038	20.91	18.74	0%	20.91	0.660	2/1/2038	21.57	2038
3/1/2038	20.91	18.76	0%	20.91	0.670	3/1/2038	21.58	2038
4/1/2038	20.91	18.79	0%	20.91	0.670	4/1/2038	21.58	2038
5/1/2038	20.91	18.81	0%	20.91	0.670	5/1/2038	21.58	2038
6/1/2038	20.91	18.83	0%	20.91	0.670	6/1/2038	21.58	2038
7/1/2038	20.91	18.75	0%	20.91	0.670	7/1/2038	21.58	2038
8/1/2038	20.91	18.75	0%	20.91	0.670	8/1/2038	21.58	2038
9/1/2038	20.91	19.53	0%	20.91	0.670	9/1/2038	21.58	2038
10/1/2038	20.91	19.17	0%	20.91	0.670	10/1/2038	21.58	2038
11/1/2038	20.91	18.85	0%	20.91	0.670	11/1/2038	21.58	2038
12/1/2038	20.91	18.88	0%	20.91	0.670	12/1/2038	21.58	2038
1/1/2039	21.29	19.09	0%	21.29	0.670	1/1/2039	21.96	2039
2/1/2039	21.29	19.11	0%	21.29	0.670	2/1/2039	21.96	2039
3/1/2039	21.29	19.14	0%	21.29	0.680	3/1/2039	21.97	2039
4/1/2039	21.29	19.16	0%	21.29	0.680	4/1/2039	21.97	2039
5/1/2039	21.29	19.19	0%	21.29	0.680	5/1/2039	21.97	2039
6/1/2039	21.29	19.21	0%	21.29	0.680	6/1/2039	21.97	2039
7/1/2039	21.29	19.13	0%	21.29	0.680	7/1/2039	21.97	2039
8/1/2039	21.29	19.13	0%	21.29	0.680	8/1/2039	21.97	2039
9/1/2039	21.29	19.93	0%	21.29	0.680	9/1/2039	21.97	2039
10/1/2039	21.29	19.55	0%	21.29	0.680	10/1/2039	21.97	2039
11/1/2039	21.29	19.22	0%	21.29	0.680	11/1/2039	21.97	2039
12/1/2039	21.29	19.26	0%	21.29	0.680	12/1/2039	21.97	2039
1/1/2040	21.42	19.47	0%	21.42	0.680	1/1/2040	22.10	2040
2/1/2040	21.42	19.49	0%	21.42	0.680	2/1/2040	22.10	2040
3/1/2040	21.42	19.52	0%	21.42	0.691	3/1/2040	22.11	2040
4/1/2040	21.42	19.54	0%	21.42	0.691	4/1/2040	22.11	2040
5/1/2040	21.42	19.57	0%	21.42	0.691	5/1/2040	22.11	2040
6/1/2040	21.42	19.60	0%	21.42	0.691	6/1/2040	22.11	2040
7/1/2040	21.42	19.51	0%	21.42	0.691	7/1/2040	22.11	2040
8/1/2040	21.42	19.51	0%	21.42	0.691	8/1/2040	22.11	2040
9/1/2040	21.42	20.32	0%	21.42	0.691	9/1/2040	22.11	2040
10/1/2040	21.42	19.94	0%	21.42	0.691	10/1/2040	22.11	2040
11/1/2040	21.42	19.61	0%	21.42	0.691	11/1/2040	22.11	2040
12/1/2040	21.42	19.64	0%	21.42	0.691	12/1/2040	22.11	2040
1/1/2041	21.98	19.86	0%	21.98	0.691	1/1/2041	22.67	2041
2/1/2041	21.98	19.88	0%	21.98	0.691	2/1/2041	22.67	2041
3/1/2041	21.98	19.91	0%	21.98	0.701	3/1/2041	22.68	2041
4/1/2041	21.98	19.94	0%	21.98	0.701	4/1/2041	22.68	2041
5/1/2041	21.98	19.96	0%	21.98	0.701	5/1/2041	22.68	2041
6/1/2041	21.98	19.99	0%	21.98	0.701	6/1/2041	22.68	2041
7/1/2041	21.98	19.90	0%	21.98	0.701	7/1/2041	22.68	2041
8/1/2041	21.98	19.90	0%	21.98	0.701	8/1/2041	22.68	2041
9/1/2041	21.98	20.73	0%	21.98	0.701	9/1/2041	22.68	2041
10/1/2041	21.98	20.34	0%	21.98	0.701	10/1/2041	22.68	2041
11/1/2041	21.98	20.00	0%	21.98	0.701	11/1/2041	22.68	2041
12/1/2041	21.98	20.04	0%	21.98	0.701	12/1/2041	22.68	2041
1/1/2042	22.55	20.25	0%	22.55	0.701	1/1/2042	23.25	2042
2/1/2042	22.55	20.28	0%	22.55	0.701	2/1/2042	23.25	2042

3/1/2042	22.55	20.31	0%	22.55	0.711	3/1/2042	23.26	2042
4/1/2042	22.55	20.33	0%	22.55	0.711	4/1/2042	23.26	2042
5/1/2042	22.55	20.36	0%	22.55	0.711	5/1/2042	23.26	2042
6/1/2042	22.55	20.39	0%	22.55	0.711	6/1/2042	23.26	2042
7/1/2042	22.55	20.30	0%	22.55	0.711	7/1/2042	23.26	2042
8/1/2042	22.55	20.30	0%	22.55	0.711	8/1/2042	23.26	2042
9/1/2042	22.55	21.14	0%	22.55	0.711	9/1/2042	23.26	2042
10/1/2042	22.55	20.75	0%	22.55	0.711	10/1/2042	23.26	2042
11/1/2042	22.55	20.40	0%	22.55	0.711	11/1/2042	23.26	2042
12/1/2042	22.55	20.44	0%	22.55	0.711	12/1/2042	23.26	2042
1/1/2043	22.74	20.66	0%	22.74	0.711	1/1/2043	23.45	2043
2/1/2043	22.74	20.69	0%	22.74	0.711	2/1/2043	23.45	2043
3/1/2043	22.74	20.71	0%	22.74	0.722	3/1/2043	23.46	2043
4/1/2043	22.74	20.74	0%	22.74	0.722	4/1/2043	23.46	2043
5/1/2043	22.74	20.77	0%	22.74	0.722	5/1/2043	23.46	2043
6/1/2043	22.74	20.80	0%	22.74	0.722	6/1/2043	23.46	2043
7/1/2043	22.74	20.70	0%	22.74	0.722	7/1/2043	23.46	2043
8/1/2043	22.74	20.70	0%	22.74	0.722	8/1/2043	23.46	2043
9/1/2043	22.74	21.57	0%	22.74	0.722	9/1/2043	23.46	2043
10/1/2043	22.74	21.16	0%	22.74	0.722	10/1/2043	23.46	2043
11/1/2043	22.74	20.81	0%	22.74	0.722	11/1/2043	23.46	2043
12/1/2043	22.74	20.85	0%	22.74	0.722	12/1/2043	23.46	2043
1/1/2044	23.33	21.07	0%	23.33	0.722	1/1/2044	24.05	2044
2/1/2044	23.33	21.10	0%	23.33	0.722	2/1/2044	24.05	2044
3/1/2044	23.33	21.13	0%	23.33	0.733	3/1/2044	24.06	2044
4/1/2044	23.33	21.16	0%	23.33	0.733	4/1/2044	24.06	2044
5/1/2044	23.33	21.18	0%	23.33	0.733	5/1/2044	24.06	2044
6/1/2044	23.33	21.21	0%	23.33	0.733	6/1/2044	24.06	2044
7/1/2044	23.33	21.12	0%	23.33	0.733	7/1/2044	24.06	2044
8/1/2044	23.33	21.12	0%	23.33	0.733	8/1/2044	24.06	2044
9/1/2044	23.33	22.00	0%	23.33	0.733	9/1/2044	24.06	2044
10/1/2044	23.33	21.59	0%	23.33	0.733	10/1/2044	24.06	2044
11/1/2044	23.33	21.22	0%	23.33	0.733	11/1/2044	24.06	2044
12/1/2044	23.33	21.26	0%	23.33	0.733	12/1/2044	24.06	2044
1/1/2045	23.52	21.49	0%	23.52	0.733	1/1/2045	24.25	2045
2/1/2045	23.52	21.52	0%	23.52	0.733	2/1/2045	24.25	2045
3/1/2045	23.52	21.55	0%	23.52	0.744	3/1/2045	24.26	2045
4/1/2045	23.52	21.58	0%	23.52	0.744	4/1/2045	24.26	2045
5/1/2045	23.52	21.61	0%	23.52	0.744	5/1/2045	24.26	2045
6/1/2045	23.52	21.64	0%	23.52	0.744	6/1/2045	24.26	2045
7/1/2045	23.52	21.54	0%	23.52	0.744	7/1/2045	24.26	2045
8/1/2045	23.52	21.54	0%	23.52	0.744	8/1/2045	24.26	2045
9/1/2045	23.52	22.44	0%	23.52	0.744	9/1/2045	24.26	2045
10/1/2045	23.52	22.02	0%	23.52	0.744	10/1/2045	24.26	2045
11/1/2045	23.52	21.65	0%	23.52	0.744	11/1/2045	24.26	2045
12/1/2045	23.52	21.69	0%	23.52	0.744	12/1/2045	24.26	2045
1/1/2046	24.12	21.92	0%	24.12	0.744	1/1/2046	24.86	2046
2/1/2046	24.12	21.95	0%	24.12	0.744	2/1/2046	24.86	2046
3/1/2046	24.12	21.98	0%	24.12	0.755	3/1/2046	24.87	2046
4/1/2046	24.12	22.01	0%	24.12	0.755	4/1/2046	24.87	2046
5/1/2046	24.12	22.04	0%	24.12	0.755	5/1/2046	24.87	2046
6/1/2046	24.12	22.07	0%	24.12	0.755	6/1/2046	24.87	2046
7/1/2046	24.12	21.97	0%	24.12	0.755	7/1/2046	24.87	2046
8/1/2046	24.12	21.97	0%	24.12	0.755	8/1/2046	24.87	2046
9/1/2046	24.12	22.89	0%	24.12	0.755	9/1/2046	24.87	2046
10/1/2046	24.12	22.46	0%	24.12	0.755	10/1/2046	24.87	2046
11/1/2046	24.12	22.08	0%	24.12	0.755	11/1/2046	24.87	2046
12/1/2046	24.12	22.12	0%	24.12	0.755	12/1/2046	24.87	2046
1/1/2047	24.73	22.36	0%	24.73	0.755	1/1/2047	25.48	2047
2/1/2047	24.73	22.39	0%	24.73	0.755	2/1/2047	25.48	2047
3/1/2047	24.73	22.42	0%	24.73	0.766	3/1/2047	25.50	2047
4/1/2047	24.73	22.45	0%	24.73	0.766	4/1/2047	25.50	2047
5/1/2047	24.73	22.48	0%	24.73	0.766	5/1/2047	25.50	2047
6/1/2047	24.73	22.51	0%	24.73	0.766	6/1/2047	25.50	2047
7/1/2047	24.73	22.41	0%	24.73	0.766	7/1/2047	25.50	2047
8/1/2047	24.73	22.41	0%	24.73	0.766	8/1/2047	25.50	2047
9/1/2047	24.73	23.35	0%	24.73	0.766	9/1/2047	25.50	2047
10/1/2047	24.73	22.91	0%	24.73	0.766	10/1/2047	25.50	2047
11/1/2047	24.73	22.52	0%	24.73	0.766	11/1/2047	25.50	2047
12/1/2047	24.73	22.57	0%	24.73	0.766	12/1/2047	25.50	2047
1/1/2048	24.91	22.81	0%	24.91	0.766	1/1/2048	25.67	2048

2/1/2048	24.91	22.84	0%	24.91	0.766	2/1/2048	25.67	2048
3/1/2048	24.91	22.87	0%	24.91	0.778	3/1/2048	25.68	2048
4/1/2048	24.91	22.90	0%	24.91	0.778	4/1/2048	25.68	2048
5/1/2048	24.91	22.93	0%	24.91	0.778	5/1/2048	25.68	2048
6/1/2048	24.91	22.96	0%	24.91	0.778	6/1/2048	25.68	2048
7/1/2048	24.91	22.86	0%	24.91	0.778	7/1/2048	25.68	2048
8/1/2048	24.91	22.86	0%	24.91	0.778	8/1/2048	25.68	2048
9/1/2048	24.91	23.81	0%	24.91	0.778	9/1/2048	25.68	2048
10/1/2048	24.91	23.37	0%	24.91	0.778	10/1/2048	25.68	2048
11/1/2048	24.91	22.97	0%	24.91	0.778	11/1/2048	25.68	2048
12/1/2048	24.91	23.02	0%	24.91	0.778	12/1/2048	25.68	2048
1/1/2049	25.53	23.27	0%	25.53	0.778	1/1/2049	26.31	2049
2/1/2049	25.53	23.30	0%	25.53	0.778	2/1/2049	26.31	2049
3/1/2049	25.53	23.33	0%	25.53	0.790	3/1/2049	26.32	2049
4/1/2049	25.53	23.36	0%	25.53	0.790	4/1/2049	26.32	2049
5/1/2049	25.53	23.39	0%	25.53	0.790	5/1/2049	26.32	2049
6/1/2049	25.53	23.42	0%	25.53	0.790	6/1/2049	26.32	2049
7/1/2049	25.53	23.32	0%	25.53	0.790	7/1/2049	26.32	2049
8/1/2049	25.53	23.32	0%	25.53	0.790	8/1/2049	26.32	2049
9/1/2049	25.53	24.29	0%	25.53	0.790	9/1/2049	26.32	2049
10/1/2049	25.53	23.83	0%	25.53	0.790	10/1/2049	26.32	2049
11/1/2049	25.53	23.43	0%	25.53	0.790	11/1/2049	26.32	2049
12/1/2049	25.53	23.48	0%	25.53	0.790	12/1/2049	26.32	2049
1/1/2050	25.53	23.73	0%	25.53	0.790	1/1/2050	26.32	2050
2/1/2050	25.53	23.76	0%	25.53	0.790	2/1/2050	26.32	2050
3/1/2050	25.53	23.79	0%	25.53	0.801	3/1/2050	26.34	2050
4/1/2050	25.53	23.83	0%	25.53	0.801	4/1/2050	26.34	2050
5/1/2050	25.53	23.86	0%	25.53	0.801	5/1/2050	26.34	2050
6/1/2050	25.53	23.89	0%	25.53	0.801	6/1/2050	26.34	2050
7/1/2050	25.53	23.78	0%	25.53	0.801	7/1/2050	26.34	2050
8/1/2050	25.53	23.78	0%	25.53	0.801	8/1/2050	26.34	2050
9/1/2050	25.53	24.77	0%	25.53	0.801	9/1/2050	26.34	2050
10/1/2050	25.53	24.31	0%	25.53	0.801	10/1/2050	26.34	2050
11/1/2050	25.53	23.90	0%	25.53	0.801	11/1/2050	26.34	2050
12/1/2050	25.53	23.95	0%	25.53	0.801	12/1/2050	26.34	2050

Int.City

PETROLEUM PRODUCT PRICE FORECAST DATA

PROSYM INPUT

ANNUAL AVERAGE

Date	Petroleum Product Price Forecast - Gulf Coast	TCM	Blend TCM/ Fundamental (%)	Blend TCM/ Fundamental ($)	Int.City Transport ($/MMBtu)
1/1/2019	14.62	12.93	100%	12.93	0.478
2/1/2019	14.62	13.87	100%	13.87	0.478
3/1/2019	14.62	13.78	100%	13.78	0.478
4/1/2019	14.62	14.33	100%	14.33	0.478
5/1/2019	14.62	14.29	100%	14.29	0.478
6/1/2019	14.62	13.17	100%	13.17	0.478
7/1/2019	14.62	13.86	100%	13.86	0.478
8/1/2019	14.62	13.04	100%	13.04	0.478
9/1/2019	14.62	13.58	100%	13.58	0.478
10/1/2019	14.62	13.31	100%	13.31	0.478
11/1/2019	14.62	13.08	100%	13.08	0.478
12/1/2019	14.62	13.09	100%	13.09	0.478
1/1/2020	13.66	13.80	100%	13.80	0.485
2/1/2020	13.66	14.09	100%	14.09	0.485
3/1/2020	13.66	14.60	100%	14.60	0.485
4/1/2020	13.66	14.42	100%	14.42	0.485
5/1/2020	13.66	13.11	100%	13.11	0.485
6/1/2020	13.66	13.60	100%	13.60	0.485
7/1/2020	13.66	12.98	100%	12.98	0.485
8/1/2020	13.66	13.82	100%	13.82	0.485
9/1/2020	13.66	13.64	100%	13.64	0.485
10/1/2020	13.66	13.38	100%	13.38	0.485
11/1/2020	13.66	13.16	100%	13.16	0.485
12/1/2020	13.66	13.18	100%	13.18	0.485
1/1/2021	13.38	13.24	100%	13.24	0.492
2/1/2021	13.38	13.26	100%	13.26	0.492
3/1/2021	13.38	13.28	100%	13.28	0.492
4/1/2021	13.38	13.30	100%	13.30	0.492
5/1/2021	13.38	13.31	100%	13.31	0.492
6/1/2021	13.38	13.33	100%	13.33	0.492
7/1/2021	13.38	13.33	100%	13.33	0.492
8/1/2021	13.38	13.33	100%	13.33	0.492
9/1/2021	13.38	13.89	100%	13.89	0.492
10/1/2021	13.38	13.63	100%	13.63	0.492
11/1/2021	13.38	13.40	100%	13.40	0.492
12/1/2021	13.38	13.42	100%	13.42	0.492
1/1/2022	13.44	13.57	96%	13.57	0.499
2/1/2022	13.44	13.59	92%	13.58	0.499
3/1/2022	13.44	13.61	88%	13.59	0.499
4/1/2022	13.44	13.62	84%	13.60	0.499
5/1/2022	13.44	13.64	80%	13.60	0.499
6/1/2022	13.44	13.66	76%	13.61	0.499
7/1/2022	13.44	13.66	72%	13.60	0.499
8/1/2022	13.44	13.66	68%	13.59	0.499
9/1/2022	13.44	14.23	64%	13.95	0.499
10/1/2022	13.44	13.96	60%	13.76	0.499
11/1/2022	13.44	13.73	56%	13.60	0.499
12/1/2022	13.44	13.75	52%	13.60	0.499
1/1/2023	13.75	13.90	48%	13.82	0.507
2/1/2023	13.75	13.92	44%	13.83	0.507
3/1/2023	13.75	13.94	40%	13.83	0.507
4/1/2023	13.75	13.96	36%	13.82	0.507
5/1/2023	13.75	13.98	32%	13.82	0.507
6/1/2023	13.75	13.99	28%	13.82	0.507
7/1/2023	13.75	13.93	24%	13.79	0.507
8/1/2023	13.75	13.93	20%	13.79	0.507
9/1/2023	13.75	14.51	16%	13.87	0.507
10/1/2023	13.75	14.24	12%	13.81	0.507
11/1/2023	13.75	14.00	8%	13.77	0.507
12/1/2023	13.75	14.03	4%	13.76	0.507
1/1/2024	14.08	14.18	0%	14.08	0.514
2/1/2024	14.08	14.20	0%	14.08	0.514
3/1/2024	14.08	14.22	0%	14.08	0.514
4/1/2024	14.08	14.24	0%	14.08	0.514
5/1/2024	14.08	14.26	0%	14.08	0.514

Date	nomianl$/MMBtu
1/1/2019	13.41
2/1/2019	14.35
3/1/2019	14.26
4/1/2019	14.80
5/1/2019	14.77
6/1/2019	13.64
7/1/2019	14.34
8/1/2019	13.52
9/1/2019	14.06
10/1/2019	13.79
11/1/2019	13.55
12/1/2019	13.57
1/1/2020	14.29
2/1/2020	14.58
3/1/2020	15.08
4/1/2020	14.91
5/1/2020	13.59
6/1/2020	14.09
7/1/2020	13.47
8/1/2020	14.30
9/1/2020	14.12
10/1/2020	13.87
11/1/2020	13.64
12/1/2020	13.67
1/1/2021	13.74
2/1/2021	13.75
3/1/2021	13.77
4/1/2021	13.79
5/1/2021	13.81
6/1/2021	13.82
7/1/2021	13.82
8/1/2021	13.82
9/1/2021	14.38
10/1/2021	14.12
11/1/2021	13.89
12/1/2021	13.92
1/1/2022	14.06
2/1/2022	14.08
3/1/2022	14.09
4/1/2022	14.09
5/1/2022	14.10
6/1/2022	14.11
7/1/2022	14.10
8/1/2022	14.09
9/1/2022	14.45
10/1/2022	14.25
11/1/2022	14.10
12/1/2022	14.10
1/1/2023	14.33
2/1/2023	14.33
3/1/2023	14.33
4/1/2023	14.33
5/1/2023	14.33
6/1/2023	14.33
7/1/2023	14.30
8/1/2023	14.29
9/1/2023	14.38
10/1/2023	14.32
11/1/2023	14.28
12/1/2023	14.27
1/1/2024	14.60
2/1/2024	14.60
3/1/2024	14.60
4/1/2024	14.60
5/1/2024	14.60

		Int.City
2019	2019	14.01
2019	2020	14.13
2019	2021	13.89
2019	2022	14.14
2019	2023	14.32
2019	2024	14.60
2019	2025	14.96
2019	2026	15.53
2019	2027	16.18
2019	2028	16.93
2019	2029	17.62
2019	2030	18.06
2020	2031	18.46
2020	2032	18.88
2020	2033	19.31
2020	2034	19.75
2020	2035	20.20
2020	2036	20.66
2020	2037	21.14
2020	2038	21.54
2020	2039	21.93
2020	2040	22.07
2020	2041	22.64
2020	2042	23.22
2021	2043	23.42
2021	2044	24.02
2021	2045	24.22
2021	2046	24.83
2021	2047	25.45
2021	2048	25.64
2021	2049	26.28
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6/1/2024	14.08	14.27	0%	14.08	0.514	6/1/2024	14.60	2024
7/1/2024	14.08	14.21	0%	14.08	0.514	7/1/2024	14.60	2024
8/1/2024	14.08	14.21	0%	14.08	0.514	8/1/2024	14.60	2024
9/1/2024	14.08	14.80	0%	14.08	0.514	9/1/2024	14.60	2024
10/1/2024	14.08	14.53	0%	14.08	0.514	10/1/2024	14.60	2024
11/1/2024	14.08	14.28	0%	14.08	0.514	11/1/2024	14.60	2024
12/1/2024	14.08	14.31	0%	14.08	0.514	12/1/2024	14.60	2024
1/1/2025	14.43	14.47	0%	14.43	0.522	1/1/2025	14.96	2025
2/1/2025	14.43	14.48	0%	14.43	0.522	2/1/2025	14.96	2025
3/1/2025	14.43	14.50	0%	14.43	0.522	3/1/2025	14.96	2025
4/1/2025	14.43	14.52	0%	14.43	0.522	4/1/2025	14.96	2025
5/1/2025	14.43	14.54	0%	14.43	0.522	5/1/2025	14.96	2025
6/1/2025	14.43	14.56	0%	14.43	0.522	6/1/2025	14.96	2025
7/1/2025	14.43	14.50	0%	14.43	0.522	7/1/2025	14.96	2025
8/1/2025	14.43	14.50	0%	14.43	0.522	8/1/2025	14.96	2025
9/1/2025	14.43	15.10	0%	14.43	0.522	9/1/2025	14.96	2025
10/1/2025	14.43	14.82	0%	14.43	0.522	10/1/2025	14.96	2025
11/1/2025	14.43	14.57	0%	14.43	0.522	11/1/2025	14.96	2025
12/1/2025	14.43	14.60	0%	14.43	0.522	12/1/2025	14.96	2025
1/1/2026	15.00	14.75	0%	15.00	0.530	1/1/2026	15.53	2026
2/1/2026	15.00	14.77	0%	15.00	0.530	2/1/2026	15.53	2026
3/1/2026	15.00	14.79	0%	15.00	0.530	3/1/2026	15.53	2026
4/1/2026	15.00	14.81	0%	15.00	0.530	4/1/2026	15.53	2026
5/1/2026	15.00	14.83	0%	15.00	0.530	5/1/2026	15.53	2026
6/1/2026	15.00	14.85	0%	15.00	0.530	6/1/2026	15.53	2026
7/1/2026	15.00	14.79	0%	15.00	0.530	7/1/2026	15.53	2026
8/1/2026	15.00	14.79	0%	15.00	0.530	8/1/2026	15.53	2026
9/1/2026	15.00	15.40	0%	15.00	0.530	9/1/2026	15.53	2026
10/1/2026	15.00	15.11	0%	15.00	0.530	10/1/2026	15.53	2026
11/1/2026	15.00	14.86	0%	15.00	0.530	11/1/2026	15.53	2026
12/1/2026	15.00	14.89	0%	15.00	0.530	12/1/2026	15.53	2026
1/1/2027	15.64	15.05	0%	15.64	0.538	1/1/2027	16.18	2027
2/1/2027	15.64	15.07	0%	15.64	0.538	2/1/2027	16.18	2027
3/1/2027	15.64	15.09	0%	15.64	0.538	3/1/2027	16.18	2027
4/1/2027	15.64	15.11	0%	15.64	0.538	4/1/2027	16.18	2027
5/1/2027	15.64	15.13	0%	15.64	0.538	5/1/2027	16.18	2027
6/1/2027	15.64	15.15	0%	15.64	0.538	6/1/2027	16.18	2027
7/1/2027	15.64	15.08	0%	15.64	0.538	7/1/2027	16.18	2027
8/1/2027	15.64	15.08	0%	15.64	0.538	8/1/2027	16.18	2027
9/1/2027	15.64	15.71	0%	15.64	0.538	9/1/2027	16.18	2027
10/1/2027	15.64	15.42	0%	15.64	0.538	10/1/2027	16.18	2027
11/1/2027	15.64	15.16	0%	15.64	0.538	11/1/2027	16.18	2027
12/1/2027	15.64	15.19	0%	15.64	0.538	12/1/2027	16.18	2027
1/1/2028	16.39	15.35	0%	16.39	0.546	1/1/2028	16.93	2028
2/1/2028	16.39	15.37	0%	16.39	0.546	2/1/2028	16.93	2028
3/1/2028	16.39	15.39	0%	16.39	0.546	3/1/2028	16.93	2028
4/1/2028	16.39	15.41	0%	16.39	0.546	4/1/2028	16.93	2028
5/1/2028	16.39	15.43	0%	16.39	0.546	5/1/2028	16.93	2028
6/1/2028	16.39	15.45	0%	16.39	0.546	6/1/2028	16.93	2028
7/1/2028	16.39	15.38	0%	16.39	0.546	7/1/2028	16.93	2028
8/1/2028	16.39	15.38	0%	16.39	0.546	8/1/2028	16.93	2028
9/1/2028	16.39	16.03	0%	16.39	0.546	9/1/2028	16.93	2028
10/1/2028	16.39	15.73	0%	16.39	0.546	10/1/2028	16.93	2028
11/1/2028	16.39	15.46	0%	16.39	0.546	11/1/2028	16.93	2028
12/1/2028	16.39	15.49	0%	16.39	0.546	12/1/2028	16.93	2028
1/1/2029	17.07	15.66	0%	17.07	0.554	1/1/2029	17.62	2029
2/1/2029	17.07	15.68	0%	17.07	0.554	2/1/2029	17.62	2029
3/1/2029	17.07	15.70	0%	17.07	0.554	3/1/2029	17.62	2029
4/1/2029	17.07	15.72	0%	17.07	0.554	4/1/2029	17.62	2029
5/1/2029	17.07	15.74	0%	17.07	0.554	5/1/2029	17.62	2029
6/1/2029	17.07	15.76	0%	17.07	0.554	6/1/2029	17.62	2029
7/1/2029	17.07	15.69	0%	17.07	0.554	7/1/2029	17.62	2029
8/1/2029	17.07	15.69	0%	17.07	0.554	8/1/2029	17.62	2029
9/1/2029	17.07	16.35	0%	17.07	0.554	9/1/2029	17.62	2029
10/1/2029	17.07	16.04	0%	17.07	0.554	10/1/2029	17.62	2029
11/1/2029	17.07	15.77	0%	17.07	0.554	11/1/2029	17.62	2029
12/1/2029	17.07	15.80	0%	17.07	0.554	12/1/2029	17.62	2029
1/1/2030	17.50	15.97	0%	17.50	0.563	1/1/2030	18.06	2030
2/1/2030	17.50	15.99	0%	17.50	0.563	2/1/2030	18.06	2030
3/1/2030	17.50	16.01	0%	17.50	0.563	3/1/2030	18.06	2030
4/1/2030	17.50	16.03	0%	17.50	0.563	4/1/2030	18.06	2030

5/1/2030	17.50	16.05	0%	17.50	0.563	5/1/2030	18.06	2030
6/1/2030	17.50	16.08	0%	17.50	0.563	6/1/2030	18.06	2030
7/1/2030	17.50	16.00	0%	17.50	0.563	7/1/2030	18.06	2030
8/1/2030	17.50	16.00	0%	17.50	0.563	8/1/2030	18.06	2030
9/1/2030	17.50	16.67	0%	17.50	0.563	9/1/2030	18.06	2030
10/1/2030	17.50	16.36	0%	17.50	0.563	10/1/2030	18.06	2030
11/1/2030	17.50	16.09	0%	17.50	0.563	11/1/2030	18.06	2030
12/1/2030	17.50	16.12	0%	17.50	0.563	12/1/2030	18.06	2030
1/1/2031	17.89	16.29	0%	17.89	0.571	1/1/2031	18.46	2031
2/1/2031	17.89	16.31	0%	17.89	0.571	2/1/2031	18.46	2031
3/1/2031	17.89	16.33	0%	17.89	0.571	3/1/2031	18.46	2031
4/1/2031	17.89	16.35	0%	17.89	0.571	4/1/2031	18.46	2031
5/1/2031	17.89	16.38	0%	17.89	0.571	5/1/2031	18.46	2031
6/1/2031	17.89	16.40	0%	17.89	0.571	6/1/2031	18.46	2031
7/1/2031	17.89	16.32	0%	17.89	0.571	7/1/2031	18.46	2031
8/1/2031	17.89	16.32	0%	17.89	0.571	8/1/2031	18.46	2031
9/1/2031	17.89	17.01	0%	17.89	0.571	9/1/2031	18.46	2031
10/1/2031	17.89	16.69	0%	17.89	0.571	10/1/2031	18.46	2031
11/1/2031	17.89	16.41	0%	17.89	0.571	11/1/2031	18.46	2031
12/1/2031	17.89	16.44	0%	17.89	0.571	12/1/2031	18.46	2031
1/1/2032	18.30	16.62	0%	18.30	0.580	1/1/2032	18.88	2032
2/1/2032	18.30	16.64	0%	18.30	0.580	2/1/2032	18.88	2032
3/1/2032	18.30	16.66	0%	18.30	0.580	3/1/2032	18.88	2032
4/1/2032	18.30	16.68	0%	18.30	0.580	4/1/2032	18.88	2032
5/1/2032	18.30	16.70	0%	18.30	0.580	5/1/2032	18.88	2032
6/1/2032	18.30	16.72	0%	18.30	0.580	6/1/2032	18.88	2032
7/1/2032	18.30	16.65	0%	18.30	0.580	7/1/2032	18.88	2032
8/1/2032	18.30	16.65	0%	18.30	0.580	8/1/2032	18.88	2032
9/1/2032	18.30	17.35	0%	18.30	0.580	9/1/2032	18.88	2032
10/1/2032	18.30	17.02	0%	18.30	0.580	10/1/2032	18.88	2032
11/1/2032	18.30	16.74	0%	18.30	0.580	11/1/2032	18.88	2032
12/1/2032	18.30	16.77	0%	18.30	0.580	12/1/2032	18.88	2032
1/1/2033	18.73	16.95	0%	18.73	0.588	1/1/2033	19.31	2033
2/1/2033	18.73	16.97	0%	18.73	0.588	2/1/2033	19.31	2033
3/1/2033	18.73	16.99	0%	18.73	0.588	3/1/2033	19.31	2033
4/1/2033	18.73	17.01	0%	18.73	0.588	4/1/2033	19.31	2033
5/1/2033	18.73	17.04	0%	18.73	0.588	5/1/2033	19.31	2033
6/1/2033	18.73	17.06	0%	18.73	0.588	6/1/2033	19.31	2033
7/1/2033	18.73	16.98	0%	18.73	0.588	7/1/2033	19.31	2033
8/1/2033	18.73	16.98	0%	18.73	0.588	8/1/2033	19.31	2033
9/1/2033	18.73	17.69	0%	18.73	0.588	9/1/2033	19.31	2033
10/1/2033	18.73	17.36	0%	18.73	0.588	10/1/2033	19.31	2033
11/1/2033	18.73	17.07	0%	18.73	0.588	11/1/2033	19.31	2033
12/1/2033	18.73	17.10	0%	18.73	0.588	12/1/2033	19.31	2033
1/1/2034	19.16	17.29	0%	19.16	0.597	1/1/2034	19.75	2034
2/1/2034	19.16	17.31	0%	19.16	0.597	2/1/2034	19.75	2034
3/1/2034	19.16	17.33	0%	19.16	0.597	3/1/2034	19.75	2034
4/1/2034	19.16	17.36	0%	19.16	0.597	4/1/2034	19.75	2034
5/1/2034	19.16	17.38	0%	19.16	0.597	5/1/2034	19.75	2034
6/1/2034	19.16	17.40	0%	19.16	0.597	6/1/2034	19.75	2034
7/1/2034	19.16	17.32	0%	19.16	0.597	7/1/2034	19.75	2034
8/1/2034	19.16	17.32	0%	19.16	0.597	8/1/2034	19.75	2034
9/1/2034	19.16	18.05	0%	19.16	0.597	9/1/2034	19.75	2034
10/1/2034	19.16	17.71	0%	19.16	0.597	10/1/2034	19.75	2034
11/1/2034	19.16	17.41	0%	19.16	0.597	11/1/2034	19.75	2034
12/1/2034	19.16	17.44	0%	19.16	0.597	12/1/2034	19.75	2034
1/1/2035	19.60	17.63	0%	19.60	0.606	1/1/2035	20.20	2035
2/1/2035	19.60	17.66	0%	19.60	0.606	2/1/2035	20.20	2035
3/1/2035	19.60	17.68	0%	19.60	0.606	3/1/2035	20.20	2035
4/1/2035	19.60	17.70	0%	19.60	0.606	4/1/2035	20.20	2035
5/1/2035	19.60	17.73	0%	19.60	0.606	5/1/2035	20.20	2035
6/1/2035	19.60	17.75	0%	19.60	0.606	6/1/2035	20.20	2035
7/1/2035	19.60	17.67	0%	19.60	0.606	7/1/2035	20.20	2035
8/1/2035	19.60	17.67	0%	19.60	0.606	8/1/2035	20.20	2035
9/1/2035	19.60	18.41	0%	19.60	0.606	9/1/2035	20.20	2035
10/1/2035	19.60	18.06	0%	19.60	0.606	10/1/2035	20.20	2035
11/1/2035	19.60	17.76	0%	19.60	0.606	11/1/2035	20.20	2035
12/1/2035	19.60	17.79	0%	19.60	0.606	12/1/2035	20.20	2035
1/1/2036	20.05	17.99	0%	20.05	0.606	1/1/2036	20.66	2036
2/1/2036	20.05	18.01	0%	20.05	0.606	2/1/2036	20.66	2036
3/1/2036	20.05	18.03	0%	20.05	0.615	3/1/2036	20.67	2036

4/1/2036	20.05	18.06	0%	20.05	0.615	4/1/2036	20.67	2036
5/1/2036	20.05	18.08	0%	20.05	0.615	5/1/2036	20.67	2036
6/1/2036	20.05	18.10	0%	20.05	0.615	6/1/2036	20.67	2036
7/1/2036	20.05	18.02	0%	20.05	0.615	7/1/2036	20.67	2036
8/1/2036	20.05	18.02	0%	20.05	0.615	8/1/2036	20.67	2036
9/1/2036	20.05	18.78	0%	20.05	0.615	9/1/2036	20.67	2036
10/1/2036	20.05	18.42	0%	20.05	0.615	10/1/2036	20.67	2036
11/1/2036	20.05	18.12	0%	20.05	0.615	11/1/2036	20.67	2036
12/1/2036	20.05	18.15	0%	20.05	0.615	12/1/2036	20.67	2036
1/1/2037	20.52	18.35	0%	20.52	0.615	1/1/2037	21.14	2037
2/1/2037	20.52	18.37	0%	20.52	0.615	2/1/2037	21.14	2037
3/1/2037	20.52	18.39	0%	20.52	0.624	3/1/2037	21.15	2037
4/1/2037	20.52	18.42	0%	20.52	0.624	4/1/2037	21.15	2037
5/1/2037	20.52	18.44	0%	20.52	0.624	5/1/2037	21.15	2037
6/1/2037	20.52	18.47	0%	20.52	0.624	6/1/2037	21.15	2037
7/1/2037	20.52	18.38	0%	20.52	0.624	7/1/2037	21.15	2037
8/1/2037	20.52	18.38	0%	20.52	0.624	8/1/2037	21.15	2037
9/1/2037	20.52	19.15	0%	20.52	0.624	9/1/2037	21.15	2037
10/1/2037	20.52	18.79	0%	20.52	0.624	10/1/2037	21.15	2037
11/1/2037	20.52	18.48	0%	20.52	0.624	11/1/2037	21.15	2037
12/1/2037	20.52	18.51	0%	20.52	0.624	12/1/2037	21.15	2037
1/1/2038	20.91	18.71	0%	20.91	0.624	1/1/2038	21.53	2038
2/1/2038	20.91	18.74	0%	20.91	0.624	2/1/2038	21.53	2038
3/1/2038	20.91	18.76	0%	20.91	0.634	3/1/2038	21.54	2038
4/1/2038	20.91	18.79	0%	20.91	0.634	4/1/2038	21.54	2038
5/1/2038	20.91	18.81	0%	20.91	0.634	5/1/2038	21.54	2038
6/1/2038	20.91	18.83	0%	20.91	0.634	6/1/2038	21.54	2038
7/1/2038	20.91	18.75	0%	20.91	0.634	7/1/2038	21.54	2038
8/1/2038	20.91	18.75	0%	20.91	0.634	8/1/2038	21.54	2038
9/1/2038	20.91	19.53	0%	20.91	0.634	9/1/2038	21.54	2038
10/1/2038	20.91	19.17	0%	20.91	0.634	10/1/2038	21.54	2038
11/1/2038	20.91	18.85	0%	20.91	0.634	11/1/2038	21.54	2038
12/1/2038	20.91	18.88	0%	20.91	0.634	12/1/2038	21.54	2038
1/1/2039	21.29	19.09	0%	21.29	0.634	1/1/2039	21.92	2039
2/1/2039	21.29	19.11	0%	21.29	0.634	2/1/2039	21.92	2039
3/1/2039	21.29	19.14	0%	21.29	0.643	3/1/2039	21.93	2039
4/1/2039	21.29	19.16	0%	21.29	0.643	4/1/2039	21.93	2039
5/1/2039	21.29	19.19	0%	21.29	0.643	5/1/2039	21.93	2039
6/1/2039	21.29	19.21	0%	21.29	0.643	6/1/2039	21.93	2039
7/1/2039	21.29	19.13	0%	21.29	0.643	7/1/2039	21.93	2039
8/1/2039	21.29	19.13	0%	21.29	0.643	8/1/2039	21.93	2039
9/1/2039	21.29	19.93	0%	21.29	0.643	9/1/2039	21.93	2039
10/1/2039	21.29	19.55	0%	21.29	0.643	10/1/2039	21.93	2039
11/1/2039	21.29	19.22	0%	21.29	0.643	11/1/2039	21.93	2039
12/1/2039	21.29	19.26	0%	21.29	0.643	12/1/2039	21.93	2039
1/1/2040	21.42	19.47	0%	21.42	0.643	1/1/2040	22.07	2040
2/1/2040	21.42	19.49	0%	21.42	0.643	2/1/2040	22.07	2040
3/1/2040	21.42	19.52	0%	21.42	0.653	3/1/2040	22.07	2040
4/1/2040	21.42	19.54	0%	21.42	0.653	4/1/2040	22.07	2040
5/1/2040	21.42	19.57	0%	21.42	0.653	5/1/2040	22.07	2040
6/1/2040	21.42	19.60	0%	21.42	0.653	6/1/2040	22.07	2040
7/1/2040	21.42	19.51	0%	21.42	0.653	7/1/2040	22.07	2040
8/1/2040	21.42	19.51	0%	21.42	0.653	8/1/2040	22.07	2040
9/1/2040	21.42	20.32	0%	21.42	0.653	9/1/2040	22.07	2040
10/1/2040	21.42	19.94	0%	21.42	0.653	10/1/2040	22.07	2040
11/1/2040	21.42	19.61	0%	21.42	0.653	11/1/2040	22.07	2040
12/1/2040	21.42	19.64	0%	21.42	0.653	12/1/2040	22.07	2040
1/1/2041	21.98	19.86	0%	21.98	0.653	1/1/2041	22.63	2041
2/1/2041	21.98	19.88	0%	21.98	0.653	2/1/2041	22.63	2041
3/1/2041	21.98	19.91	0%	21.98	0.663	3/1/2041	22.64	2041
4/1/2041	21.98	19.94	0%	21.98	0.663	4/1/2041	22.64	2041
5/1/2041	21.98	19.96	0%	21.98	0.663	5/1/2041	22.64	2041
6/1/2041	21.98	19.99	0%	21.98	0.663	6/1/2041	22.64	2041
7/1/2041	21.98	19.90	0%	21.98	0.663	7/1/2041	22.64	2041
8/1/2041	21.98	19.90	0%	21.98	0.663	8/1/2041	22.64	2041
9/1/2041	21.98	20.73	0%	21.98	0.663	9/1/2041	22.64	2041
10/1/2041	21.98	20.34	0%	21.98	0.663	10/1/2041	22.64	2041
11/1/2041	21.98	20.00	0%	21.98	0.663	11/1/2041	22.64	2041
12/1/2041	21.98	20.04	0%	21.98	0.663	12/1/2041	22.64	2041
1/1/2042	22.55	20.25	0%	22.55	0.663	1/1/2042	23.21	2042
2/1/2042	22.55	20.28	0%	22.55	0.663	2/1/2042	23.21	2042

3/1/2042	22.55	20.31	0%	22.55	0.673	3/1/2042	23.22	2042
4/1/2042	22.55	20.33	0%	22.55	0.673	4/1/2042	23.22	2042
5/1/2042	22.55	20.36	0%	22.55	0.673	5/1/2042	23.22	2042
6/1/2042	22.55	20.39	0%	22.55	0.673	6/1/2042	23.22	2042
7/1/2042	22.55	20.30	0%	22.55	0.673	7/1/2042	23.22	2042
8/1/2042	22.55	20.30	0%	22.55	0.673	8/1/2042	23.22	2042
9/1/2042	22.55	21.14	0%	22.55	0.673	9/1/2042	23.22	2042
10/1/2042	22.55	20.75	0%	22.55	0.673	10/1/2042	23.22	2042
11/1/2042	22.55	20.40	0%	22.55	0.673	11/1/2042	23.22	2042
12/1/2042	22.55	20.44	0%	22.55	0.673	12/1/2042	23.22	2042
1/1/2043	22.74	20.66	0%	22.74	0.673	1/1/2043	23.41	2043
2/1/2043	22.74	20.69	0%	22.74	0.673	2/1/2043	23.41	2043
3/1/2043	22.74	20.71	0%	22.74	0.683	3/1/2043	23.42	2043
4/1/2043	22.74	20.74	0%	22.74	0.683	4/1/2043	23.42	2043
5/1/2043	22.74	20.77	0%	22.74	0.683	5/1/2043	23.42	2043
6/1/2043	22.74	20.80	0%	22.74	0.683	6/1/2043	23.42	2043
7/1/2043	22.74	20.70	0%	22.74	0.683	7/1/2043	23.42	2043
8/1/2043	22.74	20.70	0%	22.74	0.683	8/1/2043	23.42	2043
9/1/2043	22.74	21.57	0%	22.74	0.683	9/1/2043	23.42	2043
10/1/2043	22.74	21.16	0%	22.74	0.683	10/1/2043	23.42	2043
11/1/2043	22.74	20.81	0%	22.74	0.683	11/1/2043	23.42	2043
12/1/2043	22.74	20.85	0%	22.74	0.683	12/1/2043	23.42	2043
1/1/2044	23.33	21.07	0%	23.33	0.683	1/1/2044	24.01	2044
2/1/2044	23.33	21.10	0%	23.33	0.683	2/1/2044	24.01	2044
3/1/2044	23.33	21.13	0%	23.33	0.693	3/1/2044	24.02	2044
4/1/2044	23.33	21.16	0%	23.33	0.693	4/1/2044	24.02	2044
5/1/2044	23.33	21.18	0%	23.33	0.693	5/1/2044	24.02	2044
6/1/2044	23.33	21.21	0%	23.33	0.693	6/1/2044	24.02	2044
7/1/2044	23.33	21.12	0%	23.33	0.693	7/1/2044	24.02	2044
8/1/2044	23.33	21.12	0%	23.33	0.693	8/1/2044	24.02	2044
9/1/2044	23.33	22.00	0%	23.33	0.693	9/1/2044	24.02	2044
10/1/2044	23.33	21.59	0%	23.33	0.693	10/1/2044	24.02	2044
11/1/2044	23.33	21.22	0%	23.33	0.693	11/1/2044	24.02	2044
12/1/2044	23.33	21.26	0%	23.33	0.693	12/1/2044	24.02	2044
1/1/2045	23.52	21.49	0%	23.52	0.693	1/1/2045	24.21	2045
2/1/2045	23.52	21.52	0%	23.52	0.693	2/1/2045	24.21	2045
3/1/2045	23.52	21.55	0%	23.52	0.703	3/1/2045	24.22	2045
4/1/2045	23.52	21.58	0%	23.52	0.703	4/1/2045	24.22	2045
5/1/2045	23.52	21.61	0%	23.52	0.703	5/1/2045	24.22	2045
6/1/2045	23.52	21.64	0%	23.52	0.703	6/1/2045	24.22	2045
7/1/2045	23.52	21.54	0%	23.52	0.703	7/1/2045	24.22	2045
8/1/2045	23.52	21.54	0%	23.52	0.703	8/1/2045	24.22	2045
9/1/2045	23.52	22.44	0%	23.52	0.703	9/1/2045	24.22	2045
10/1/2045	23.52	22.02	0%	23.52	0.703	10/1/2045	24.22	2045
11/1/2045	23.52	21.65	0%	23.52	0.703	11/1/2045	24.22	2045
12/1/2045	23.52	21.69	0%	23.52	0.703	12/1/2045	24.22	2045
1/1/2046	24.12	21.92	0%	24.12	0.703	1/1/2046	24.82	2046
2/1/2046	24.12	21.95	0%	24.12	0.703	2/1/2046	24.82	2046
3/1/2046	24.12	21.98	0%	24.12	0.714	3/1/2046	24.83	2046
4/1/2046	24.12	22.01	0%	24.12	0.714	4/1/2046	24.83	2046
5/1/2046	24.12	22.04	0%	24.12	0.714	5/1/2046	24.83	2046
6/1/2046	24.12	22.07	0%	24.12	0.714	6/1/2046	24.83	2046
7/1/2046	24.12	21.97	0%	24.12	0.714	7/1/2046	24.83	2046
8/1/2046	24.12	21.97	0%	24.12	0.714	8/1/2046	24.83	2046
9/1/2046	24.12	22.89	0%	24.12	0.714	9/1/2046	24.83	2046
10/1/2046	24.12	22.46	0%	24.12	0.714	10/1/2046	24.83	2046
11/1/2046	24.12	22.08	0%	24.12	0.714	11/1/2046	24.83	2046
12/1/2046	24.12	22.12	0%	24.12	0.714	12/1/2046	24.83	2046
1/1/2047	24.73	22.36	0%	24.73	0.714	1/1/2047	25.44	2047
2/1/2047	24.73	22.39	0%	24.73	0.714	2/1/2047	25.44	2047
3/1/2047	24.73	22.42	0%	24.73	0.725	3/1/2047	25.45	2047
4/1/2047	24.73	22.45	0%	24.73	0.725	4/1/2047	25.45	2047
5/1/2047	24.73	22.48	0%	24.73	0.725	5/1/2047	25.45	2047
6/1/2047	24.73	22.51	0%	24.73	0.725	6/1/2047	25.45	2047
7/1/2047	24.73	22.41	0%	24.73	0.725	7/1/2047	25.45	2047
8/1/2047	24.73	22.41	0%	24.73	0.725	8/1/2047	25.45	2047
9/1/2047	24.73	23.35	0%	24.73	0.725	9/1/2047	25.45	2047
10/1/2047	24.73	22.91	0%	24.73	0.725	10/1/2047	25.45	2047
11/1/2047	24.73	22.52	0%	24.73	0.725	11/1/2047	25.45	2047
12/1/2047	24.73	22.57	0%	24.73	0.725	12/1/2047	25.45	2047
1/1/2048	24.91	22.81	0%	24.91	0.725	1/1/2048	25.63	2048

2/1/2048	24.91	22.84	0%	24.91	0.725	2/1/2048	25.63	2048
3/1/2048	24.91	22.87	0%	24.91	0.735	3/1/2048	25.64	2048
4/1/2048	24.91	22.90	0%	24.91	0.735	4/1/2048	25.64	2048
5/1/2048	24.91	22.93	0%	24.91	0.735	5/1/2048	25.64	2048
6/1/2048	24.91	22.96	0%	24.91	0.735	6/1/2048	25.64	2048
7/1/2048	24.91	22.86	0%	24.91	0.735	7/1/2048	25.64	2048
8/1/2048	24.91	22.86	0%	24.91	0.735	8/1/2048	25.64	2048
9/1/2048	24.91	23.81	0%	24.91	0.735	9/1/2048	25.64	2048
10/1/2048	24.91	23.37	0%	24.91	0.735	10/1/2048	25.64	2048
11/1/2048	24.91	22.97	0%	24.91	0.735	11/1/2048	25.64	2048
12/1/2048	24.91	23.02	0%	24.91	0.735	12/1/2048	25.64	2048
1/1/2049	25.53	23.27	0%	25.53	0.735	1/1/2049	26.27	2049
2/1/2049	25.53	23.30	0%	25.53	0.735	2/1/2049	26.27	2049
3/1/2049	25.53	23.33	0%	25.53	0.746	3/1/2049	26.28	2049
4/1/2049	25.53	23.36	0%	25.53	0.746	4/1/2049	26.28	2049
5/1/2049	25.53	23.39	0%	25.53	0.746	5/1/2049	26.28	2049
6/1/2049	25.53	23.42	0%	25.53	0.746	6/1/2049	26.28	2049
7/1/2049	25.53	23.32	0%	25.53	0.746	7/1/2049	26.28	2049
8/1/2049	25.53	23.32	0%	25.53	0.746	8/1/2049	26.28	2049
9/1/2049	25.53	24.29	0%	25.53	0.746	9/1/2049	26.28	2049
10/1/2049	25.53	23.83	0%	25.53	0.746	10/1/2049	26.28	2049
11/1/2049	25.53	23.43	0%	25.53	0.746	11/1/2049	26.28	2049
12/1/2049	25.53	23.48	0%	25.53	0.746	12/1/2049	26.28	2049
1/1/2050	25.53	23.73	0%	25.53	0.746	1/1/2050	26.28	2050
2/1/2050	25.53	23.76	0%	25.53	0.746	2/1/2050	26.28	2050
3/1/2050	25.53	23.79	0%	25.53	0.758	3/1/2050	26.29	2050
4/1/2050	25.53	23.83	0%	25.53	0.758	4/1/2050	26.29	2050
5/1/2050	25.53	23.86	0%	25.53	0.758	5/1/2050	26.29	2050
6/1/2050	25.53	23.89	0%	25.53	0.758	6/1/2050	26.29	2050
7/1/2050	25.53	23.78	0%	25.53	0.758	7/1/2050	26.29	2050
8/1/2050	25.53	23.78	0%	25.53	0.758	8/1/2050	26.29	2050
9/1/2050	25.53	24.77	0%	25.53	0.758	9/1/2050	26.29	2050
10/1/2050	25.53	24.31	0%	25.53	0.758	10/1/2050	26.29	2050
11/1/2050	25.53	23.90	0%	25.53	0.758	11/1/2050	26.29	2050
12/1/2050	25.53	23.95	0%	25.53	0.758	12/1/2050	26.29	2050

Shady Hills

PETROLEUM PRODUCT PRICE FORECAST DATA

Date	Petroleum Product Price Forecast - Gulf Coast	TCM	Blend TCM/ Fundamental (%)	Blend TCM/ Fundamental ($)	Shady Hills Transport ($/MMBtu)
1/1/2019	14.62	12.93	100%	12.93	0.551
2/1/2019	14.62	13.87	100%	13.87	0.551
3/1/2019	14.62	13.78	100%	13.78	0.551
4/1/2019	14.62	14.33	100%	14.33	0.551
5/1/2019	14.62	14.29	100%	14.29	0.551
6/1/2019	14.62	13.17	100%	13.17	0.551
7/1/2019	14.62	13.86	100%	13.86	0.551
8/1/2019	14.62	13.04	100%	13.04	0.551
9/1/2019	14.62	13.58	100%	13.58	0.551
10/1/2019	14.62	13.31	100%	13.31	0.551
11/1/2019	14.62	13.08	100%	13.08	0.551
12/1/2019	14.62	13.09	100%	13.09	0.551
1/1/2020	13.66	13.80	100%	13.80	0.559
2/1/2020	13.66	14.09	100%	14.09	0.559
3/1/2020	13.66	14.60	100%	14.60	0.559
4/1/2020	13.66	14.42	100%	14.42	0.559
5/1/2020	13.66	13.11	100%	13.11	0.559
6/1/2020	13.66	13.60	100%	13.60	0.559
7/1/2020	13.66	12.98	100%	12.98	0.559
8/1/2020	13.66	13.82	100%	13.82	0.559
9/1/2020	13.66	13.64	100%	13.64	0.559
10/1/2020	13.66	13.38	100%	13.38	0.559
11/1/2020	13.66	13.16	100%	13.16	0.559
12/1/2020	13.66	13.18	100%	13.18	0.559
1/1/2021	13.38	13.24	100%	13.24	0.567
2/1/2021	13.38	13.26	100%	13.26	0.567
3/1/2021	13.38	13.28	100%	13.28	0.567
4/1/2021	13.38	13.30	100%	13.30	0.567
5/1/2021	13.38	13.31	100%	13.31	0.567
6/1/2021	13.38	13.33	100%	13.33	0.567
7/1/2021	13.38	13.33	100%	13.33	0.567
8/1/2021	13.38	13.33	100%	13.33	0.567
9/1/2021	13.38	13.89	100%	13.89	0.567
10/1/2021	13.38	13.63	100%	13.63	0.567
11/1/2021	13.38	13.40	100%	13.40	0.567
12/1/2021	13.38	13.42	100%	13.42	0.567
1/1/2022	13.44	13.57	96%	13.57	0.576
2/1/2022	13.44	13.59	92%	13.58	0.576
3/1/2022	13.44	13.61	88%	13.59	0.576
4/1/2022	13.44	13.62	84%	13.60	0.576
5/1/2022	13.44	13.64	80%	13.60	0.576
6/1/2022	13.44	13.66	76%	13.61	0.576
7/1/2022	13.44	13.66	72%	13.60	0.576
8/1/2022	13.44	13.66	68%	13.59	0.576
9/1/2022	13.44	14.23	64%	13.95	0.576
10/1/2022	13.44	13.96	60%	13.76	0.576
11/1/2022	13.44	13.73	56%	13.60	0.576
12/1/2022	13.44	13.75	52%	13.60	0.576
1/1/2023	13.75	13.90	48%	13.82	0.585
2/1/2023	13.75	13.92	44%	13.83	0.585
3/1/2023	13.75	13.94	40%	13.83	0.585
4/1/2023	13.75	13.96	36%	13.82	0.585
5/1/2023	13.75	13.98	32%	13.82	0.585
6/1/2023	13.75	13.99	28%	13.82	0.585
7/1/2023	13.75	13.93	24%	13.79	0.585
8/1/2023	13.75	13.93	20%	13.79	0.585
9/1/2023	13.75	14.51	16%	13.87	0.585
10/1/2023	13.75	14.24	12%	13.81	0.585
11/1/2023	13.75	14.00	8%	13.77	0.585
12/1/2023	13.75	14.03	4%	13.76	0.585
1/1/2024	14.08	14.18	0%	14.08	0.593
2/1/2024	14.08	14.20	0%	14.08	0.593
3/1/2024	14.08	14.22	0%	14.08	0.593
4/1/2024	14.08	14.24	0%	14.08	0.593
5/1/2024	14.08	14.26	0%	14.08	0.593

PROSYM INPUT

Date	nomianl$/MMBtu
1/1/2019	13.48
2/1/2019	14.42
3/1/2019	14.33
4/1/2019	14.88
5/1/2019	14.84
6/1/2019	13.72
7/1/2019	14.41
8/1/2019	13.59
9/1/2019	14.13
10/1/2019	13.86
11/1/2019	13.63
12/1/2019	13.64
1/1/2020	14.36
2/1/2020	14.65
3/1/2020	15.15
4/1/2020	14.98
5/1/2020	13.66
6/1/2020	14.16
7/1/2020	13.54
8/1/2020	14.38
9/1/2020	14.19
10/1/2020	13.94
11/1/2020	13.72
12/1/2020	13.74
1/1/2021	13.81
2/1/2021	13.83
3/1/2021	13.85
4/1/2021	13.86
5/1/2021	13.88
6/1/2021	13.90
7/1/2021	13.90
8/1/2021	13.90
9/1/2021	14.46
10/1/2021	14.20
11/1/2021	13.97
12/1/2021	13.99
1/1/2022	14.14
2/1/2022	14.15
3/1/2022	14.16
4/1/2022	14.17
5/1/2022	14.18
6/1/2022	14.18
7/1/2022	14.17
8/1/2022	14.17
9/1/2022	14.52
10/1/2022	14.33
11/1/2022	14.18
12/1/2022	14.18
1/1/2023	14.41
2/1/2023	14.41
3/1/2023	14.41
4/1/2023	14.41
5/1/2023	14.41
6/1/2023	14.40
7/1/2023	14.38
8/1/2023	14.37
9/1/2023	14.46
10/1/2023	14.39
11/1/2023	14.35
12/1/2023	14.35
1/1/2024	14.68
2/1/2024	14.68
3/1/2024	14.68
4/1/2024	14.68
5/1/2024	14.68

ANNUAL AVERAGE

	Shady Hills
2019	14.08
2020	14.21
2021	13.96
2022	14.21
2023	14.40
2024	14.68
2025	15.04
2026	15.61
2027	16.26
2028	17.02
2029	17.71
2030	18.15
2031	18.55
2032	18.97
2033	19.40
2034	19.85
2035	20.30
2036	20.76
2037	21.24
2038	21.64
2039	22.03
2040	22.17
2041	22.74
2042	23.32
2043	23.52
2044	24.13
2045	24.33
2046	24.94
2047	25.56
2048	25.75
2049	26.39
2050	26.41

6/1/2024	14.08	14.27	0%	14.08	0.593	6/1/2024	14.68	2024
7/1/2024	14.08	14.21	0%	14.08	0.593	7/1/2024	14.68	2024
8/1/2024	14.08	14.21	0%	14.08	0.593	8/1/2024	14.68	2024
9/1/2024	14.08	14.80	0%	14.08	0.593	9/1/2024	14.68	2024
10/1/2024	14.08	14.53	0%	14.08	0.593	10/1/2024	14.68	2024
11/1/2024	14.08	14.28	0%	14.08	0.593	11/1/2024	14.68	2024
12/1/2024	14.08	14.31	0%	14.08	0.593	12/1/2024	14.68	2024
1/1/2025	14.43	14.47	0%	14.43	0.602	1/1/2025	15.04	2025
2/1/2025	14.43	14.48	0%	14.43	0.602	2/1/2025	15.04	2025
3/1/2025	14.43	14.50	0%	14.43	0.602	3/1/2025	15.04	2025
4/1/2025	14.43	14.52	0%	14.43	0.602	4/1/2025	15.04	2025
5/1/2025	14.43	14.54	0%	14.43	0.602	5/1/2025	15.04	2025
6/1/2025	14.43	14.56	0%	14.43	0.602	6/1/2025	15.04	2025
7/1/2025	14.43	14.50	0%	14.43	0.602	7/1/2025	15.04	2025
8/1/2025	14.43	14.50	0%	14.43	0.602	8/1/2025	15.04	2025
9/1/2025	14.43	15.10	0%	14.43	0.602	9/1/2025	15.04	2025
10/1/2025	14.43	14.82	0%	14.43	0.602	10/1/2025	15.04	2025
11/1/2025	14.43	14.57	0%	14.43	0.602	11/1/2025	15.04	2025
12/1/2025	14.43	14.60	0%	14.43	0.602	12/1/2025	15.04	2025
1/1/2026	15.00	14.75	0%	15.00	0.611	1/1/2026	15.61	2026
2/1/2026	15.00	14.77	0%	15.00	0.611	2/1/2026	15.61	2026
3/1/2026	15.00	14.79	0%	15.00	0.611	3/1/2026	15.61	2026
4/1/2026	15.00	14.81	0%	15.00	0.611	4/1/2026	15.61	2026
5/1/2026	15.00	14.83	0%	15.00	0.611	5/1/2026	15.61	2026
6/1/2026	15.00	14.85	0%	15.00	0.611	6/1/2026	15.61	2026
7/1/2026	15.00	14.79	0%	15.00	0.611	7/1/2026	15.61	2026
8/1/2026	15.00	14.79	0%	15.00	0.611	8/1/2026	15.61	2026
9/1/2026	15.00	15.40	0%	15.00	0.611	9/1/2026	15.61	2026
10/1/2026	15.00	15.11	0%	15.00	0.611	10/1/2026	15.61	2026
11/1/2026	15.00	14.86	0%	15.00	0.611	11/1/2026	15.61	2026
12/1/2026	15.00	14.89	0%	15.00	0.611	12/1/2026	15.61	2026
1/1/2027	15.64	15.05	0%	15.64	0.620	1/1/2027	16.26	2027
2/1/2027	15.64	15.07	0%	15.64	0.620	2/1/2027	16.26	2027
3/1/2027	15.64	15.09	0%	15.64	0.620	3/1/2027	16.26	2027
4/1/2027	15.64	15.11	0%	15.64	0.620	4/1/2027	16.26	2027
5/1/2027	15.64	15.13	0%	15.64	0.620	5/1/2027	16.26	2027
6/1/2027	15.64	15.15	0%	15.64	0.620	6/1/2027	16.26	2027
7/1/2027	15.64	15.08	0%	15.64	0.620	7/1/2027	16.26	2027
8/1/2027	15.64	15.08	0%	15.64	0.620	8/1/2027	16.26	2027
9/1/2027	15.64	15.71	0%	15.64	0.620	9/1/2027	16.26	2027
10/1/2027	15.64	15.42	0%	15.64	0.620	10/1/2027	16.26	2027
11/1/2027	15.64	15.16	0%	15.64	0.620	11/1/2027	16.26	2027
12/1/2027	15.64	15.19	0%	15.64	0.620	12/1/2027	16.26	2027
1/1/2028	16.39	15.35	0%	16.39	0.630	1/1/2028	17.02	2028
2/1/2028	16.39	15.37	0%	16.39	0.630	2/1/2028	17.02	2028
3/1/2028	16.39	15.39	0%	16.39	0.630	3/1/2028	17.02	2028
4/1/2028	16.39	15.41	0%	16.39	0.630	4/1/2028	17.02	2028
5/1/2028	16.39	15.43	0%	16.39	0.630	5/1/2028	17.02	2028
6/1/2028	16.39	15.45	0%	16.39	0.630	6/1/2028	17.02	2028
7/1/2028	16.39	15.38	0%	16.39	0.630	7/1/2028	17.02	2028
8/1/2028	16.39	15.38	0%	16.39	0.630	8/1/2028	17.02	2028
9/1/2028	16.39	16.03	0%	16.39	0.630	9/1/2028	17.02	2028
10/1/2028	16.39	15.73	0%	16.39	0.630	10/1/2028	17.02	2028
11/1/2028	16.39	15.46	0%	16.39	0.630	11/1/2028	17.02	2028
12/1/2028	16.39	15.49	0%	16.39	0.630	12/1/2028	17.02	2028
1/1/2029	17.07	15.66	0%	17.07	0.639	1/1/2029	17.71	2029
2/1/2029	17.07	15.68	0%	17.07	0.639	2/1/2029	17.71	2029
3/1/2029	17.07	15.70	0%	17.07	0.639	3/1/2029	17.71	2029
4/1/2029	17.07	15.72	0%	17.07	0.639	4/1/2029	17.71	2029
5/1/2029	17.07	15.74	0%	17.07	0.639	5/1/2029	17.71	2029
6/1/2029	17.07	15.76	0%	17.07	0.639	6/1/2029	17.71	2029
7/1/2029	17.07	15.69	0%	17.07	0.639	7/1/2029	17.71	2029
8/1/2029	17.07	15.69	0%	17.07	0.639	8/1/2029	17.71	2029
9/1/2029	17.07	16.35	0%	17.07	0.639	9/1/2029	17.71	2029
10/1/2029	17.07	16.04	0%	17.07	0.639	10/1/2029	17.71	2029
11/1/2029	17.07	15.77	0%	17.07	0.639	11/1/2029	17.71	2029
12/1/2029	17.07	15.80	0%	17.07	0.639	12/1/2029	17.71	2029
1/1/2030	17.50	15.97	0%	17.50	0.649	1/1/2030	18.15	2030
2/1/2030	17.50	15.99	0%	17.50	0.649	2/1/2030	18.15	2030
3/1/2030	17.50	16.01	0%	17.50	0.649	3/1/2030	18.15	2030
4/1/2030	17.50	16.03	0%	17.50	0.649	4/1/2030	18.15	2030

5/1/2030	17.50	16.05	0%	17.50	0.649	5/1/2030	18.15	2030
6/1/2030	17.50	16.08	0%	17.50	0.649	6/1/2030	18.15	2030
7/1/2030	17.50	16.00	0%	17.50	0.649	7/1/2030	18.15	2030
8/1/2030	17.50	16.00	0%	17.50	0.649	8/1/2030	18.15	2030
9/1/2030	17.50	16.67	0%	17.50	0.649	9/1/2030	18.15	2030
10/1/2030	17.50	16.36	0%	17.50	0.649	10/1/2030	18.15	2030
11/1/2030	17.50	16.09	0%	17.50	0.649	11/1/2030	18.15	2030
12/1/2030	17.50	16.12	0%	17.50	0.649	12/1/2030	18.15	2030
1/1/2031	17.89	16.29	0%	17.89	0.658	1/1/2031	18.55	2031
2/1/2031	17.89	16.31	0%	17.89	0.658	2/1/2031	18.55	2031
3/1/2031	17.89	16.33	0%	17.89	0.658	3/1/2031	18.55	2031
4/1/2031	17.89	16.35	0%	17.89	0.658	4/1/2031	18.55	2031
5/1/2031	17.89	16.38	0%	17.89	0.658	5/1/2031	18.55	2031
6/1/2031	17.89	16.40	0%	17.89	0.658	6/1/2031	18.55	2031
7/1/2031	17.89	16.32	0%	17.89	0.658	7/1/2031	18.55	2031
8/1/2031	17.89	16.32	0%	17.89	0.658	8/1/2031	18.55	2031
9/1/2031	17.89	17.01	0%	17.89	0.658	9/1/2031	18.55	2031
10/1/2031	17.89	16.69	0%	17.89	0.658	10/1/2031	18.55	2031
11/1/2031	17.89	16.41	0%	17.89	0.658	11/1/2031	18.55	2031
12/1/2031	17.89	16.44	0%	17.89	0.658	12/1/2031	18.55	2031
1/1/2032	18.30	16.62	0%	18.30	0.668	1/1/2032	18.97	2032
2/1/2032	18.30	16.64	0%	18.30	0.668	2/1/2032	18.97	2032
3/1/2032	18.30	16.66	0%	18.30	0.668	3/1/2032	18.97	2032
4/1/2032	18.30	16.68	0%	18.30	0.668	4/1/2032	18.97	2032
5/1/2032	18.30	16.70	0%	18.30	0.668	5/1/2032	18.97	2032
6/1/2032	18.30	16.72	0%	18.30	0.668	6/1/2032	18.97	2032
7/1/2032	18.30	16.65	0%	18.30	0.668	7/1/2032	18.97	2032
8/1/2032	18.30	16.65	0%	18.30	0.668	8/1/2032	18.97	2032
9/1/2032	18.30	17.35	0%	18.30	0.668	9/1/2032	18.97	2032
10/1/2032	18.30	17.02	0%	18.30	0.668	10/1/2032	18.97	2032
11/1/2032	18.30	16.74	0%	18.30	0.668	11/1/2032	18.97	2032
12/1/2032	18.30	16.77	0%	18.30	0.668	12/1/2032	18.97	2032
1/1/2033	18.73	16.95	0%	18.73	0.678	1/1/2033	19.40	2033
2/1/2033	18.73	16.97	0%	18.73	0.678	2/1/2033	19.40	2033
3/1/2033	18.73	16.99	0%	18.73	0.678	3/1/2033	19.40	2033
4/1/2033	18.73	17.01	0%	18.73	0.678	4/1/2033	19.40	2033
5/1/2033	18.73	17.04	0%	18.73	0.678	5/1/2033	19.40	2033
6/1/2033	18.73	17.06	0%	18.73	0.678	6/1/2033	19.40	2033
7/1/2033	18.73	16.98	0%	18.73	0.678	7/1/2033	19.40	2033
8/1/2033	18.73	16.98	0%	18.73	0.678	8/1/2033	19.40	2033
9/1/2033	18.73	17.69	0%	18.73	0.678	9/1/2033	19.40	2033
10/1/2033	18.73	17.36	0%	18.73	0.678	10/1/2033	19.40	2033
11/1/2033	18.73	17.07	0%	18.73	0.678	11/1/2033	19.40	2033
12/1/2033	18.73	17.10	0%	18.73	0.678	12/1/2033	19.40	2033
1/1/2034	19.16	17.29	0%	19.16	0.689	1/1/2034	19.85	2034
2/1/2034	19.16	17.31	0%	19.16	0.689	2/1/2034	19.85	2034
3/1/2034	19.16	17.33	0%	19.16	0.689	3/1/2034	19.85	2034
4/1/2034	19.16	17.36	0%	19.16	0.689	4/1/2034	19.85	2034
5/1/2034	19.16	17.38	0%	19.16	0.689	5/1/2034	19.85	2034
6/1/2034	19.16	17.40	0%	19.16	0.689	6/1/2034	19.85	2034
7/1/2034	19.16	17.32	0%	19.16	0.689	7/1/2034	19.85	2034
8/1/2034	19.16	17.32	0%	19.16	0.689	8/1/2034	19.85	2034
9/1/2034	19.16	18.05	0%	19.16	0.689	9/1/2034	19.85	2034
10/1/2034	19.16	17.71	0%	19.16	0.689	10/1/2034	19.85	2034
11/1/2034	19.16	17.41	0%	19.16	0.689	11/1/2034	19.85	2034
12/1/2034	19.16	17.44	0%	19.16	0.689	12/1/2034	19.85	2034
1/1/2035	19.60	17.63	0%	19.60	0.699	1/1/2035	20.30	2035
2/1/2035	19.60	17.66	0%	19.60	0.699	2/1/2035	20.30	2035
3/1/2035	19.60	17.68	0%	19.60	0.699	3/1/2035	20.30	2035
4/1/2035	19.60	17.70	0%	19.60	0.699	4/1/2035	20.30	2035
5/1/2035	19.60	17.73	0%	19.60	0.699	5/1/2035	20.30	2035
6/1/2035	19.60	17.75	0%	19.60	0.699	6/1/2035	20.30	2035
7/1/2035	19.60	17.67	0%	19.60	0.699	7/1/2035	20.30	2035
8/1/2035	19.60	17.67	0%	19.60	0.699	8/1/2035	20.30	2035
9/1/2035	19.60	18.41	0%	19.60	0.699	9/1/2035	20.30	2035
10/1/2035	19.60	18.06	0%	19.60	0.699	10/1/2035	20.30	2035
11/1/2035	19.60	17.76	0%	19.60	0.699	11/1/2035	20.30	2035
12/1/2035	19.60	17.79	0%	19.60	0.699	12/1/2035	20.30	2035
1/1/2036	20.05	17.99	0%	20.05	0.699	1/1/2036	20.75	2036
2/1/2036	20.05	18.01	0%	20.05	0.699	2/1/2036	20.75	2036
3/1/2036	20.05	18.03	0%	20.05	0.709	3/1/2036	20.76	2036

4/1/2036	20.05	18.06	0%	20.05	0.709	4/1/2036	20.76	2036
5/1/2036	20.05	18.08	0%	20.05	0.709	5/1/2036	20.76	2036
6/1/2036	20.05	18.10	0%	20.05	0.709	6/1/2036	20.76	2036
7/1/2036	20.05	18.02	0%	20.05	0.709	7/1/2036	20.76	2036
8/1/2036	20.05	18.02	0%	20.05	0.709	8/1/2036	20.76	2036
9/1/2036	20.05	18.78	0%	20.05	0.709	9/1/2036	20.76	2036
10/1/2036	20.05	18.42	0%	20.05	0.709	10/1/2036	20.76	2036
11/1/2036	20.05	18.12	0%	20.05	0.709	11/1/2036	20.76	2036
12/1/2036	20.05	18.15	0%	20.05	0.709	12/1/2036	20.76	2036
1/1/2037	20.52	18.35	0%	20.52	0.709	1/1/2037	21.23	2037
2/1/2037	20.52	18.37	0%	20.52	0.709	2/1/2037	21.23	2037
3/1/2037	20.52	18.39	0%	20.52	0.720	3/1/2037	21.24	2037
4/1/2037	20.52	18.42	0%	20.52	0.720	4/1/2037	21.24	2037
5/1/2037	20.52	18.44	0%	20.52	0.720	5/1/2037	21.24	2037
6/1/2037	20.52	18.47	0%	20.52	0.720	6/1/2037	21.24	2037
7/1/2037	20.52	18.38	0%	20.52	0.720	7/1/2037	21.24	2037
8/1/2037	20.52	18.38	0%	20.52	0.720	8/1/2037	21.24	2037
9/1/2037	20.52	19.15	0%	20.52	0.720	9/1/2037	21.24	2037
10/1/2037	20.52	18.79	0%	20.52	0.720	10/1/2037	21.24	2037
11/1/2037	20.52	18.48	0%	20.52	0.720	11/1/2037	21.24	2037
12/1/2037	20.52	18.51	0%	20.52	0.720	12/1/2037	21.24	2037
1/1/2038	20.91	18.71	0%	20.91	0.720	1/1/2038	21.63	2038
2/1/2038	20.91	18.74	0%	20.91	0.720	2/1/2038	21.63	2038
3/1/2038	20.91	18.76	0%	20.91	0.731	3/1/2038	21.64	2038
4/1/2038	20.91	18.79	0%	20.91	0.731	4/1/2038	21.64	2038
5/1/2038	20.91	18.81	0%	20.91	0.731	5/1/2038	21.64	2038
6/1/2038	20.91	18.83	0%	20.91	0.731	6/1/2038	21.64	2038
7/1/2038	20.91	18.75	0%	20.91	0.731	7/1/2038	21.64	2038
8/1/2038	20.91	18.75	0%	20.91	0.731	8/1/2038	21.64	2038
9/1/2038	20.91	19.53	0%	20.91	0.731	9/1/2038	21.64	2038
10/1/2038	20.91	19.17	0%	20.91	0.731	10/1/2038	21.64	2038
11/1/2038	20.91	18.85	0%	20.91	0.731	11/1/2038	21.64	2038
12/1/2038	20.91	18.88	0%	20.91	0.731	12/1/2038	21.64	2038
1/1/2039	21.29	19.09	0%	21.29	0.731	1/1/2039	22.02	2039
2/1/2039	21.29	19.11	0%	21.29	0.731	2/1/2039	22.02	2039
3/1/2039	21.29	19.14	0%	21.29	0.742	3/1/2039	22.03	2039
4/1/2039	21.29	19.16	0%	21.29	0.742	4/1/2039	22.03	2039
5/1/2039	21.29	19.19	0%	21.29	0.742	5/1/2039	22.03	2039
6/1/2039	21.29	19.21	0%	21.29	0.742	6/1/2039	22.03	2039
7/1/2039	21.29	19.13	0%	21.29	0.742	7/1/2039	22.03	2039
8/1/2039	21.29	19.13	0%	21.29	0.742	8/1/2039	22.03	2039
9/1/2039	21.29	19.93	0%	21.29	0.742	9/1/2039	22.03	2039
10/1/2039	21.29	19.55	0%	21.29	0.742	10/1/2039	22.03	2039
11/1/2039	21.29	19.22	0%	21.29	0.742	11/1/2039	22.03	2039
12/1/2039	21.29	19.26	0%	21.29	0.742	12/1/2039	22.03	2039
1/1/2040	21.42	19.47	0%	21.42	0.742	1/1/2040	22.16	2040
2/1/2040	21.42	19.49	0%	21.42	0.742	2/1/2040	22.16	2040
3/1/2040	21.42	19.52	0%	21.42	0.753	3/1/2040	22.17	2040
4/1/2040	21.42	19.54	0%	21.42	0.753	4/1/2040	22.17	2040
5/1/2040	21.42	19.57	0%	21.42	0.753	5/1/2040	22.17	2040
6/1/2040	21.42	19.60	0%	21.42	0.753	6/1/2040	22.17	2040
7/1/2040	21.42	19.51	0%	21.42	0.753	7/1/2040	22.17	2040
8/1/2040	21.42	19.51	0%	21.42	0.753	8/1/2040	22.17	2040
9/1/2040	21.42	20.32	0%	21.42	0.753	9/1/2040	22.17	2040
10/1/2040	21.42	19.94	0%	21.42	0.753	10/1/2040	22.17	2040
11/1/2040	21.42	19.61	0%	21.42	0.753	11/1/2040	22.17	2040
12/1/2040	21.42	19.64	0%	21.42	0.753	12/1/2040	22.17	2040
1/1/2041	21.98	19.86	0%	21.98	0.753	1/1/2041	22.73	2041
2/1/2041	21.98	19.88	0%	21.98	0.753	2/1/2041	22.73	2041
3/1/2041	21.98	19.91	0%	21.98	0.764	3/1/2041	22.74	2041
4/1/2041	21.98	19.94	0%	21.98	0.764	4/1/2041	22.74	2041
5/1/2041	21.98	19.96	0%	21.98	0.764	5/1/2041	22.74	2041
6/1/2041	21.98	19.99	0%	21.98	0.764	6/1/2041	22.74	2041
7/1/2041	21.98	19.90	0%	21.98	0.764	7/1/2041	22.74	2041
8/1/2041	21.98	19.90	0%	21.98	0.764	8/1/2041	22.74	2041
9/1/2041	21.98	20.73	0%	21.98	0.764	9/1/2041	22.74	2041
10/1/2041	21.98	20.34	0%	21.98	0.764	10/1/2041	22.74	2041
11/1/2041	21.98	20.00	0%	21.98	0.764	11/1/2041	22.74	2041
12/1/2041	21.98	20.04	0%	21.98	0.764	12/1/2041	22.74	2041
1/1/2042	22.55	20.25	0%	22.55	0.764	1/1/2042	23.32	2042
2/1/2042	22.55	20.28	0%	22.55	0.764	2/1/2042	23.32	2042

3/1/2042	22.55	20.31	0%	22.55	0.776	3/1/2042	23.33	2042
4/1/2042	22.55	20.33	0%	22.55	0.776	4/1/2042	23.33	2042
5/1/2042	22.55	20.36	0%	22.55	0.776	5/1/2042	23.33	2042
6/1/2042	22.55	20.39	0%	22.55	0.776	6/1/2042	23.33	2042
7/1/2042	22.55	20.30	0%	22.55	0.776	7/1/2042	23.33	2042
8/1/2042	22.55	20.30	0%	22.55	0.776	8/1/2042	23.33	2042
9/1/2042	22.55	21.14	0%	22.55	0.776	9/1/2042	23.33	2042
10/1/2042	22.55	20.75	0%	22.55	0.776	10/1/2042	23.33	2042
11/1/2042	22.55	20.40	0%	22.55	0.776	11/1/2042	23.33	2042
12/1/2042	22.55	20.44	0%	22.55	0.776	12/1/2042	23.33	2042
1/1/2043	22.74	20.66	0%	22.74	0.776	1/1/2043	23.51	2043
2/1/2043	22.74	20.69	0%	22.74	0.776	2/1/2043	23.51	2043
3/1/2043	22.74	20.71	0%	22.74	0.787	3/1/2043	23.53	2043
4/1/2043	22.74	20.74	0%	22.74	0.787	4/1/2043	23.53	2043
5/1/2043	22.74	20.77	0%	22.74	0.787	5/1/2043	23.53	2043
6/1/2043	22.74	20.80	0%	22.74	0.787	6/1/2043	23.53	2043
7/1/2043	22.74	20.70	0%	22.74	0.787	7/1/2043	23.53	2043
8/1/2043	22.74	20.70	0%	22.74	0.787	8/1/2043	23.53	2043
9/1/2043	22.74	21.57	0%	22.74	0.787	9/1/2043	23.53	2043
10/1/2043	22.74	21.16	0%	22.74	0.787	10/1/2043	23.53	2043
11/1/2043	22.74	20.81	0%	22.74	0.787	11/1/2043	23.53	2043
12/1/2043	22.74	20.85	0%	22.74	0.787	12/1/2043	23.53	2043
1/1/2044	23.33	21.07	0%	23.33	0.787	1/1/2044	24.12	2044
2/1/2044	23.33	21.10	0%	23.33	0.787	2/1/2044	24.12	2044
3/1/2044	23.33	21.13	0%	23.33	0.799	3/1/2044	24.13	2044
4/1/2044	23.33	21.16	0%	23.33	0.799	4/1/2044	24.13	2044
5/1/2044	23.33	21.18	0%	23.33	0.799	5/1/2044	24.13	2044
6/1/2044	23.33	21.21	0%	23.33	0.799	6/1/2044	24.13	2044
7/1/2044	23.33	21.12	0%	23.33	0.799	7/1/2044	24.13	2044
8/1/2044	23.33	21.12	0%	23.33	0.799	8/1/2044	24.13	2044
9/1/2044	23.33	22.00	0%	23.33	0.799	9/1/2044	24.13	2044
10/1/2044	23.33	21.59	0%	23.33	0.799	10/1/2044	24.13	2044
11/1/2044	23.33	21.22	0%	23.33	0.799	11/1/2044	24.13	2044
12/1/2044	23.33	21.26	0%	23.33	0.799	12/1/2044	24.13	2044
1/1/2045	23.52	21.49	0%	23.52	0.799	1/1/2045	24.32	2045
2/1/2045	23.52	21.52	0%	23.52	0.799	2/1/2045	24.32	2045
3/1/2045	23.52	21.55	0%	23.52	0.811	3/1/2045	24.33	2045
4/1/2045	23.52	21.58	0%	23.52	0.811	4/1/2045	24.33	2045
5/1/2045	23.52	21.61	0%	23.52	0.811	5/1/2045	24.33	2045
6/1/2045	23.52	21.64	0%	23.52	0.811	6/1/2045	24.33	2045
7/1/2045	23.52	21.54	0%	23.52	0.811	7/1/2045	24.33	2045
8/1/2045	23.52	21.54	0%	23.52	0.811	8/1/2045	24.33	2045
9/1/2045	23.52	22.44	0%	23.52	0.811	9/1/2045	24.33	2045
10/1/2045	23.52	22.02	0%	23.52	0.811	10/1/2045	24.33	2045
11/1/2045	23.52	21.65	0%	23.52	0.811	11/1/2045	24.33	2045
12/1/2045	23.52	21.69	0%	23.52	0.811	12/1/2045	24.33	2045
1/1/2046	24.12	21.92	0%	24.12	0.811	1/1/2046	24.93	2046
2/1/2046	24.12	21.95	0%	24.12	0.811	2/1/2046	24.93	2046
3/1/2046	24.12	21.98	0%	24.12	0.823	3/1/2046	24.94	2046
4/1/2046	24.12	22.01	0%	24.12	0.823	4/1/2046	24.94	2046
5/1/2046	24.12	22.04	0%	24.12	0.823	5/1/2046	24.94	2046
6/1/2046	24.12	22.07	0%	24.12	0.823	6/1/2046	24.94	2046
7/1/2046	24.12	21.97	0%	24.12	0.823	7/1/2046	24.94	2046
8/1/2046	24.12	21.97	0%	24.12	0.823	8/1/2046	24.94	2046
9/1/2046	24.12	22.89	0%	24.12	0.823	9/1/2046	24.94	2046
10/1/2046	24.12	22.46	0%	24.12	0.823	10/1/2046	24.94	2046
11/1/2046	24.12	22.08	0%	24.12	0.823	11/1/2046	24.94	2046
12/1/2046	24.12	22.12	0%	24.12	0.823	12/1/2046	24.94	2046
1/1/2047	24.73	22.36	0%	24.73	0.823	1/1/2047	25.55	2047
2/1/2047	24.73	22.39	0%	24.73	0.823	2/1/2047	25.55	2047
3/1/2047	24.73	22.42	0%	24.73	0.836	3/1/2047	25.56	2047
4/1/2047	24.73	22.45	0%	24.73	0.836	4/1/2047	25.56	2047
5/1/2047	24.73	22.48	0%	24.73	0.836	5/1/2047	25.56	2047
6/1/2047	24.73	22.51	0%	24.73	0.836	6/1/2047	25.56	2047
7/1/2047	24.73	22.41	0%	24.73	0.836	7/1/2047	25.56	2047
8/1/2047	24.73	22.41	0%	24.73	0.836	8/1/2047	25.56	2047
9/1/2047	24.73	23.35	0%	24.73	0.836	9/1/2047	25.56	2047
10/1/2047	24.73	22.91	0%	24.73	0.836	10/1/2047	25.56	2047
11/1/2047	24.73	22.52	0%	24.73	0.836	11/1/2047	25.56	2047
12/1/2047	24.73	22.57	0%	24.73	0.836	12/1/2047	25.56	2047
1/1/2048	24.91	22.81	0%	24.91	0.836	1/1/2048	25.74	2048

2/1/2048	24.91	22.84	0%	24.91	0.836	2/1/2048	25.74	2048
3/1/2048	24.91	22.87	0%	24.91	0.848	3/1/2048	25.76	2048
4/1/2048	24.91	22.90	0%	24.91	0.848	4/1/2048	25.76	2048
5/1/2048	24.91	22.93	0%	24.91	0.848	5/1/2048	25.76	2048
6/1/2048	24.91	22.96	0%	24.91	0.848	6/1/2048	25.76	2048
7/1/2048	24.91	22.86	0%	24.91	0.848	7/1/2048	25.76	2048
8/1/2048	24.91	22.86	0%	24.91	0.848	8/1/2048	25.76	2048
9/1/2048	24.91	23.81	0%	24.91	0.848	9/1/2048	25.76	2048
10/1/2048	24.91	23.37	0%	24.91	0.848	10/1/2048	25.76	2048
11/1/2048	24.91	22.97	0%	24.91	0.848	11/1/2048	25.76	2048
12/1/2048	24.91	23.02	0%	24.91	0.848	12/1/2048	25.76	2048
1/1/2049	25.53	23.27	0%	25.53	0.848	1/1/2049	26.38	2049
2/1/2049	25.53	23.30	0%	25.53	0.848	2/1/2049	26.38	2049
3/1/2049	25.53	23.33	0%	25.53	0.861	3/1/2049	26.39	2049
4/1/2049	25.53	23.36	0%	25.53	0.861	4/1/2049	26.39	2049
5/1/2049	25.53	23.39	0%	25.53	0.861	5/1/2049	26.39	2049
6/1/2049	25.53	23.42	0%	25.53	0.861	6/1/2049	26.39	2049
7/1/2049	25.53	23.32	0%	25.53	0.861	7/1/2049	26.39	2049
8/1/2049	25.53	23.32	0%	25.53	0.861	8/1/2049	26.39	2049
9/1/2049	25.53	24.29	0%	25.53	0.861	9/1/2049	26.39	2049
10/1/2049	25.53	23.83	0%	25.53	0.861	10/1/2049	26.39	2049
11/1/2049	25.53	23.43	0%	25.53	0.861	11/1/2049	26.39	2049
12/1/2049	25.53	23.48	0%	25.53	0.861	12/1/2049	26.39	2049
1/1/2050	25.53	23.73	0%	25.53	0.861	1/1/2050	26.39	2050
2/1/2050	25.53	23.76	0%	25.53	0.861	2/1/2050	26.39	2050
3/1/2050	25.53	23.79	0%	25.53	0.874	3/1/2050	26.41	2050
4/1/2050	25.53	23.83	0%	25.53	0.874	4/1/2050	26.41	2050
5/1/2050	25.53	23.86	0%	25.53	0.874	5/1/2050	26.41	2050
6/1/2050	25.53	23.89	0%	25.53	0.874	6/1/2050	26.41	2050
7/1/2050	25.53	23.78	0%	25.53	0.874	7/1/2050	26.41	2050
8/1/2050	25.53	23.78	0%	25.53	0.874	8/1/2050	26.41	2050
9/1/2050	25.53	24.77	0%	25.53	0.874	9/1/2050	26.41	2050
10/1/2050	25.53	24.31	0%	25.53	0.874	10/1/2050	26.41	2050
11/1/2050	25.53	23.90	0%	25.53	0.874	11/1/2050	26.41	2050
12/1/2050	25.53	23.95	0%	25.53	0.874	12/1/2050	26.41	2050

Suwanee

PETROLEUM PRODUCT PRICE FORECAST DATA

Date	Petroleum Product Price Forecast - Gulf Coast	TCM	Blend TCM/ Fundamental (%)	Blend TCM/ Fundamental ($)	Suwanee Transport ($/MMBtu)
1/1/2019	14.62	12.93	100%	12.93	0.806
2/1/2019	14.62	13.87	100%	13.87	0.806
3/1/2019	14.62	13.78	100%	13.78	0.806
4/1/2019	14.62	14.33	100%	14.33	0.806
5/1/2019	14.62	14.29	100%	14.29	0.806
6/1/2019	14.62	13.17	100%	13.17	0.806
7/1/2019	14.62	13.86	100%	13.86	0.806
8/1/2019	14.62	13.04	100%	13.04	0.806
9/1/2019	14.62	13.58	100%	13.58	0.806
10/1/2019	14.62	13.31	100%	13.31	0.806
11/1/2019	14.62	13.08	100%	13.08	0.806
12/1/2019	14.62	13.09	100%	13.09	0.806
1/1/2020	13.66	13.80	100%	13.80	0.818
2/1/2020	13.66	14.09	100%	14.09	0.818
3/1/2020	13.66	14.60	100%	14.60	0.818
4/1/2020	13.66	14.42	100%	14.42	0.818
5/1/2020	13.66	13.11	100%	13.11	0.818
6/1/2020	13.66	13.60	100%	13.60	0.818
7/1/2020	13.66	12.98	100%	12.98	0.818
8/1/2020	13.66	13.82	100%	13.82	0.818
9/1/2020	13.66	13.64	100%	13.64	0.818
10/1/2020	13.66	13.38	100%	13.38	0.818
11/1/2020	13.66	13.16	100%	13.16	0.818
12/1/2020	13.66	13.18	100%	13.18	0.818
1/1/2021	13.38	13.24	100%	13.24	0.830
2/1/2021	13.38	13.26	100%	13.26	0.830
3/1/2021	13.38	13.28	100%	13.28	0.830
4/1/2021	13.38	13.30	100%	13.30	0.830
5/1/2021	13.38	13.31	100%	13.31	0.830
6/1/2021	13.38	13.33	100%	13.33	0.830
7/1/2021	13.38	13.33	100%	13.33	0.830
8/1/2021	13.38	13.33	100%	13.33	0.830
9/1/2021	13.38	13.89	100%	13.89	0.830
10/1/2021	13.38	13.63	100%	13.63	0.830
11/1/2021	13.38	13.40	100%	13.40	0.830
12/1/2021	13.38	13.42	100%	13.42	0.830
1/1/2022	13.44	13.57	96%	13.57	0.843
2/1/2022	13.44	13.59	92%	13.58	0.843
3/1/2022	13.44	13.61	88%	13.59	0.843
4/1/2022	13.44	13.62	84%	13.60	0.843
5/1/2022	13.44	13.64	80%	13.60	0.843
6/1/2022	13.44	13.66	76%	13.61	0.843
7/1/2022	13.44	13.66	72%	13.60	0.843
8/1/2022	13.44	13.66	68%	13.59	0.843
9/1/2022	13.44	14.23	64%	13.95	0.843
10/1/2022	13.44	13.96	60%	13.76	0.843
11/1/2022	13.44	13.73	56%	13.60	0.843
12/1/2022	13.44	13.75	52%	13.60	0.843
1/1/2023	13.75	13.90	48%	13.82	0.855
2/1/2023	13.75	13.92	44%	13.83	0.855
3/1/2023	13.75	13.94	40%	13.83	0.855
4/1/2023	13.75	13.96	36%	13.82	0.855
5/1/2023	13.75	13.98	32%	13.82	0.855
6/1/2023	13.75	13.99	28%	13.82	0.855
7/1/2023	13.75	13.93	24%	13.79	0.855
8/1/2023	13.75	13.93	20%	13.79	0.855
9/1/2023	13.75	14.51	16%	13.87	0.855
10/1/2023	13.75	14.24	12%	13.81	0.855
11/1/2023	13.75	14.00	8%	13.77	0.855
12/1/2023	13.75	14.03	4%	13.76	0.855
1/1/2024	14.08	14.18	0%	14.08	0.868
2/1/2024	14.08	14.20	0%	14.08	0.868
3/1/2024	14.08	14.22	0%	14.08	0.868
4/1/2024	14.08	14.24	0%	14.08	0.868
5/1/2024	14.08	14.26	0%	14.08	0.868

PROSYM INPUT

Date	nomianl$/MMBtu
1/1/2019	13.73
2/1/2019	14.68
3/1/2019	14.59
4/1/2019	15.13
5/1/2019	15.10
6/1/2019	13.97
7/1/2019	14.67
8/1/2019	13.85
9/1/2019	14.39
10/1/2019	14.12
11/1/2019	13.88
12/1/2019	13.90
1/1/2020	14.62
2/1/2020	14.91
3/1/2020	15.41
4/1/2020	15.24
5/1/2020	13.92
6/1/2020	14.42
7/1/2020	13.80
8/1/2020	14.64
9/1/2020	14.45
10/1/2020	14.20
11/1/2020	13.97
12/1/2020	14.00
1/1/2021	14.07
2/1/2021	14.09
3/1/2021	14.11
4/1/2021	14.13
5/1/2021	14.14
6/1/2021	14.16
7/1/2021	14.16
8/1/2021	14.16
9/1/2021	14.72
10/1/2021	14.46
11/1/2021	14.23
12/1/2021	14.25
1/1/2022	14.41
2/1/2022	14.42
3/1/2022	14.43
4/1/2022	14.44
5/1/2022	14.45
6/1/2022	14.45
7/1/2022	14.44
8/1/2022	14.43
9/1/2022	14.79
10/1/2022	14.60
11/1/2022	14.45
12/1/2022	14.45
1/1/2023	14.68
2/1/2023	14.68
3/1/2023	14.68
4/1/2023	14.68
5/1/2023	14.68
6/1/2023	14.67
7/1/2023	14.65
8/1/2023	14.64
9/1/2023	14.73
10/1/2023	14.66
11/1/2023	14.62
12/1/2023	14.62
1/1/2024	14.95
2/1/2024	14.95
3/1/2024	14.95
4/1/2024	14.95
5/1/2024	14.95

ANNUAL AVERAGE

		Suwanee
2019	2019	14.33
2019	2020	14.47
2019	2021	14.22
2019	2022	14.48
2019	2023	14.67
2019	2024	14.95
2019	2025	15.32
2019	2026	15.89
2019	2027	16.55
2019	2028	17.31
2019	2029	18.01
2019	2030	18.45
2020	2031	18.85
2020	2032	19.28
2020	2033	19.72
2020	2034	20.16
2020	2035	20.62
2020	2036	21.09
2020	2037	21.57
2020	2038	21.98
2020	2039	22.37
2020	2040	22.52
2020	2041	23.09
2020	2042	23.68
2021	2043	23.89
2021	2044	24.50
2021	2045	24.70
2021	2046	25.32
2021	2047	25.95
2021	2048	26.15
2021	2049	26.79
2021	2050	26.81
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6/1/2024	14.08	14.27	0%	14.08	0.868	6/1/2024	14.95	2024
7/1/2024	14.08	14.21	0%	14.08	0.868	7/1/2024	14.95	2024
8/1/2024	14.08	14.21	0%	14.08	0.868	8/1/2024	14.95	2024
9/1/2024	14.08	14.80	0%	14.08	0.868	9/1/2024	14.95	2024
10/1/2024	14.08	14.53	0%	14.08	0.868	10/1/2024	14.95	2024
11/1/2024	14.08	14.28	0%	14.08	0.868	11/1/2024	14.95	2024
12/1/2024	14.08	14.31	0%	14.08	0.868	12/1/2024	14.95	2024
1/1/2025	14.43	14.47	0%	14.43	0.881	1/1/2025	15.32	2025
2/1/2025	14.43	14.48	0%	14.43	0.881	2/1/2025	15.32	2025
3/1/2025	14.43	14.50	0%	14.43	0.881	3/1/2025	15.32	2025
4/1/2025	14.43	14.52	0%	14.43	0.881	4/1/2025	15.32	2025
5/1/2025	14.43	14.54	0%	14.43	0.881	5/1/2025	15.32	2025
6/1/2025	14.43	14.56	0%	14.43	0.881	6/1/2025	15.32	2025
7/1/2025	14.43	14.50	0%	14.43	0.881	7/1/2025	15.32	2025
8/1/2025	14.43	14.50	0%	14.43	0.881	8/1/2025	15.32	2025
9/1/2025	14.43	15.10	0%	14.43	0.881	9/1/2025	15.32	2025
10/1/2025	14.43	14.82	0%	14.43	0.881	10/1/2025	15.32	2025
11/1/2025	14.43	14.57	0%	14.43	0.881	11/1/2025	15.32	2025
12/1/2025	14.43	14.60	0%	14.43	0.881	12/1/2025	15.32	2025
1/1/2026	15.00	14.75	0%	15.00	0.894	1/1/2026	15.89	2026
2/1/2026	15.00	14.77	0%	15.00	0.894	2/1/2026	15.89	2026
3/1/2026	15.00	14.79	0%	15.00	0.894	3/1/2026	15.89	2026
4/1/2026	15.00	14.81	0%	15.00	0.894	4/1/2026	15.89	2026
5/1/2026	15.00	14.83	0%	15.00	0.894	5/1/2026	15.89	2026
6/1/2026	15.00	14.85	0%	15.00	0.894	6/1/2026	15.89	2026
7/1/2026	15.00	14.79	0%	15.00	0.894	7/1/2026	15.89	2026
8/1/2026	15.00	14.79	0%	15.00	0.894	8/1/2026	15.89	2026
9/1/2026	15.00	15.40	0%	15.00	0.894	9/1/2026	15.89	2026
10/1/2026	15.00	15.11	0%	15.00	0.894	10/1/2026	15.89	2026
11/1/2026	15.00	14.86	0%	15.00	0.894	11/1/2026	15.89	2026
12/1/2026	15.00	14.89	0%	15.00	0.894	12/1/2026	15.89	2026
1/1/2027	15.64	15.05	0%	15.64	0.908	1/1/2027	16.55	2027
2/1/2027	15.64	15.07	0%	15.64	0.908	2/1/2027	16.55	2027
3/1/2027	15.64	15.09	0%	15.64	0.908	3/1/2027	16.55	2027
4/1/2027	15.64	15.11	0%	15.64	0.908	4/1/2027	16.55	2027
5/1/2027	15.64	15.13	0%	15.64	0.908	5/1/2027	16.55	2027
6/1/2027	15.64	15.15	0%	15.64	0.908	6/1/2027	16.55	2027
7/1/2027	15.64	15.08	0%	15.64	0.908	7/1/2027	16.55	2027
8/1/2027	15.64	15.08	0%	15.64	0.908	8/1/2027	16.55	2027
9/1/2027	15.64	15.71	0%	15.64	0.908	9/1/2027	16.55	2027
10/1/2027	15.64	15.42	0%	15.64	0.908	10/1/2027	16.55	2027
11/1/2027	15.64	15.16	0%	15.64	0.908	11/1/2027	16.55	2027
12/1/2027	15.64	15.19	0%	15.64	0.908	12/1/2027	16.55	2027
1/1/2028	16.39	15.35	0%	16.39	0.921	1/1/2028	17.31	2028
2/1/2028	16.39	15.37	0%	16.39	0.921	2/1/2028	17.31	2028
3/1/2028	16.39	15.39	0%	16.39	0.921	3/1/2028	17.31	2028
4/1/2028	16.39	15.41	0%	16.39	0.921	4/1/2028	17.31	2028
5/1/2028	16.39	15.43	0%	16.39	0.921	5/1/2028	17.31	2028
6/1/2028	16.39	15.45	0%	16.39	0.921	6/1/2028	17.31	2028
7/1/2028	16.39	15.38	0%	16.39	0.921	7/1/2028	17.31	2028
8/1/2028	16.39	15.38	0%	16.39	0.921	8/1/2028	17.31	2028
9/1/2028	16.39	16.03	0%	16.39	0.921	9/1/2028	17.31	2028
10/1/2028	16.39	15.73	0%	16.39	0.921	10/1/2028	17.31	2028
11/1/2028	16.39	15.46	0%	16.39	0.921	11/1/2028	17.31	2028
12/1/2028	16.39	15.49	0%	16.39	0.921	12/1/2028	17.31	2028
1/1/2029	17.07	15.66	0%	17.07	0.935	1/1/2029	18.01	2029
2/1/2029	17.07	15.68	0%	17.07	0.935	2/1/2029	18.01	2029
3/1/2029	17.07	15.70	0%	17.07	0.935	3/1/2029	18.01	2029
4/1/2029	17.07	15.72	0%	17.07	0.935	4/1/2029	18.01	2029
5/1/2029	17.07	15.74	0%	17.07	0.935	5/1/2029	18.01	2029
6/1/2029	17.07	15.76	0%	17.07	0.935	6/1/2029	18.01	2029
7/1/2029	17.07	15.69	0%	17.07	0.935	7/1/2029	18.01	2029
8/1/2029	17.07	15.69	0%	17.07	0.935	8/1/2029	18.01	2029
9/1/2029	17.07	16.35	0%	17.07	0.935	9/1/2029	18.01	2029
10/1/2029	17.07	16.04	0%	17.07	0.935	10/1/2029	18.01	2029
11/1/2029	17.07	15.77	0%	17.07	0.935	11/1/2029	18.01	2029
12/1/2029	17.07	15.80	0%	17.07	0.935	12/1/2029	18.01	2029
1/1/2030	17.50	15.97	0%	17.50	0.949	1/1/2030	18.45	2030
2/1/2030	17.50	15.99	0%	17.50	0.949	2/1/2030	18.45	2030
3/1/2030	17.50	16.01	0%	17.50	0.949	3/1/2030	18.45	2030
4/1/2030	17.50	16.03	0%	17.50	0.949	4/1/2030	18.45	2030

5/1/2030	17.50	16.05	0%	17.50	0.949	5/1/2030	18.45	2030
6/1/2030	17.50	16.08	0%	17.50	0.949	6/1/2030	18.45	2030
7/1/2030	17.50	16.00	0%	17.50	0.949	7/1/2030	18.45	2030
8/1/2030	17.50	16.00	0%	17.50	0.949	8/1/2030	18.45	2030
9/1/2030	17.50	16.67	0%	17.50	0.949	9/1/2030	18.45	2030
10/1/2030	17.50	16.36	0%	17.50	0.949	10/1/2030	18.45	2030
11/1/2030	17.50	16.09	0%	17.50	0.949	11/1/2030	18.45	2030
12/1/2030	17.50	16.12	0%	17.50	0.949	12/1/2030	18.45	2030
1/1/2031	17.89	16.29	0%	17.89	0.963	1/1/2031	18.85	2031
2/1/2031	17.89	16.31	0%	17.89	0.963	2/1/2031	18.85	2031
3/1/2031	17.89	16.33	0%	17.89	0.963	3/1/2031	18.85	2031
4/1/2031	17.89	16.35	0%	17.89	0.963	4/1/2031	18.85	2031
5/1/2031	17.89	16.38	0%	17.89	0.963	5/1/2031	18.85	2031
6/1/2031	17.89	16.40	0%	17.89	0.963	6/1/2031	18.85	2031
7/1/2031	17.89	16.32	0%	17.89	0.963	7/1/2031	18.85	2031
8/1/2031	17.89	16.32	0%	17.89	0.963	8/1/2031	18.85	2031
9/1/2031	17.89	17.01	0%	17.89	0.963	9/1/2031	18.85	2031
10/1/2031	17.89	16.69	0%	17.89	0.963	10/1/2031	18.85	2031
11/1/2031	17.89	16.41	0%	17.89	0.963	11/1/2031	18.85	2031
12/1/2031	17.89	16.44	0%	17.89	0.963	12/1/2031	18.85	2031
1/1/2032	18.30	16.62	0%	18.30	0.978	1/1/2032	19.28	2032
2/1/2032	18.30	16.64	0%	18.30	0.978	2/1/2032	19.28	2032
3/1/2032	18.30	16.66	0%	18.30	0.978	3/1/2032	19.28	2032
4/1/2032	18.30	16.68	0%	18.30	0.978	4/1/2032	19.28	2032
5/1/2032	18.30	16.70	0%	18.30	0.978	5/1/2032	19.28	2032
6/1/2032	18.30	16.72	0%	18.30	0.978	6/1/2032	19.28	2032
7/1/2032	18.30	16.65	0%	18.30	0.978	7/1/2032	19.28	2032
8/1/2032	18.30	16.65	0%	18.30	0.978	8/1/2032	19.28	2032
9/1/2032	18.30	17.35	0%	18.30	0.978	9/1/2032	19.28	2032
10/1/2032	18.30	17.02	0%	18.30	0.978	10/1/2032	19.28	2032
11/1/2032	18.30	16.74	0%	18.30	0.978	11/1/2032	19.28	2032
12/1/2032	18.30	16.77	0%	18.30	0.978	12/1/2032	19.28	2032
1/1/2033	18.73	16.95	0%	18.73	0.993	1/1/2033	19.72	2033
2/1/2033	18.73	16.97	0%	18.73	0.993	2/1/2033	19.72	2033
3/1/2033	18.73	16.99	0%	18.73	0.993	3/1/2033	19.72	2033
4/1/2033	18.73	17.01	0%	18.73	0.993	4/1/2033	19.72	2033
5/1/2033	18.73	17.04	0%	18.73	0.993	5/1/2033	19.72	2033
6/1/2033	18.73	17.06	0%	18.73	0.993	6/1/2033	19.72	2033
7/1/2033	18.73	16.98	0%	18.73	0.993	7/1/2033	19.72	2033
8/1/2033	18.73	16.98	0%	18.73	0.993	8/1/2033	19.72	2033
9/1/2033	18.73	17.69	0%	18.73	0.993	9/1/2033	19.72	2033
10/1/2033	18.73	17.36	0%	18.73	0.993	10/1/2033	19.72	2033
11/1/2033	18.73	17.07	0%	18.73	0.993	11/1/2033	19.72	2033
12/1/2033	18.73	17.10	0%	18.73	0.993	12/1/2033	19.72	2033
1/1/2034	19.16	17.29	0%	19.16	1.007	1/1/2034	20.16	2034
2/1/2034	19.16	17.31	0%	19.16	1.007	2/1/2034	20.16	2034
3/1/2034	19.16	17.33	0%	19.16	1.007	3/1/2034	20.16	2034
4/1/2034	19.16	17.36	0%	19.16	1.007	4/1/2034	20.16	2034
5/1/2034	19.16	17.38	0%	19.16	1.007	5/1/2034	20.16	2034
6/1/2034	19.16	17.40	0%	19.16	1.007	6/1/2034	20.16	2034
7/1/2034	19.16	17.32	0%	19.16	1.007	7/1/2034	20.16	2034
8/1/2034	19.16	17.32	0%	19.16	1.007	8/1/2034	20.16	2034
9/1/2034	19.16	18.05	0%	19.16	1.007	9/1/2034	20.16	2034
10/1/2034	19.16	17.71	0%	19.16	1.007	10/1/2034	20.16	2034
11/1/2034	19.16	17.41	0%	19.16	1.007	11/1/2034	20.16	2034
12/1/2034	19.16	17.44	0%	19.16	1.007	12/1/2034	20.16	2034
1/1/2035	19.60	17.63	0%	19.60	1.023	1/1/2035	20.62	2035
2/1/2035	19.60	17.66	0%	19.60	1.023	2/1/2035	20.62	2035
3/1/2035	19.60	17.68	0%	19.60	1.023	3/1/2035	20.62	2035
4/1/2035	19.60	17.70	0%	19.60	1.023	4/1/2035	20.62	2035
5/1/2035	19.60	17.73	0%	19.60	1.023	5/1/2035	20.62	2035
6/1/2035	19.60	17.75	0%	19.60	1.023	6/1/2035	20.62	2035
7/1/2035	19.60	17.67	0%	19.60	1.023	7/1/2035	20.62	2035
8/1/2035	19.60	17.67	0%	19.60	1.023	8/1/2035	20.62	2035
9/1/2035	19.60	18.41	0%	19.60	1.023	9/1/2035	20.62	2035
10/1/2035	19.60	18.06	0%	19.60	1.023	10/1/2035	20.62	2035
11/1/2035	19.60	17.76	0%	19.60	1.023	11/1/2035	20.62	2035
12/1/2035	19.60	17.79	0%	19.60	1.023	12/1/2035	20.62	2035
1/1/2036	20.05	17.99	0%	20.05	1.023	1/1/2036	21.07	2036
2/1/2036	20.05	18.01	0%	20.05	1.023	2/1/2036	21.07	2036
3/1/2036	20.05	18.03	0%	20.05	1.038	3/1/2036	21.09	2036

4/1/2036	20.05	18.06	0%	20.05	1.038	4/1/2036	21.09	2036
5/1/2036	20.05	18.08	0%	20.05	1.038	5/1/2036	21.09	2036
6/1/2036	20.05	18.10	0%	20.05	1.038	6/1/2036	21.09	2036
7/1/2036	20.05	18.02	0%	20.05	1.038	7/1/2036	21.09	2036
8/1/2036	20.05	18.02	0%	20.05	1.038	8/1/2036	21.09	2036
9/1/2036	20.05	18.78	0%	20.05	1.038	9/1/2036	21.09	2036
10/1/2036	20.05	18.42	0%	20.05	1.038	10/1/2036	21.09	2036
11/1/2036	20.05	18.12	0%	20.05	1.038	11/1/2036	21.09	2036
12/1/2036	20.05	18.15	0%	20.05	1.038	12/1/2036	21.09	2036
1/1/2037	20.52	18.35	0%	20.52	1.038	1/1/2037	21.56	2037
2/1/2037	20.52	18.37	0%	20.52	1.038	2/1/2037	21.56	2037
3/1/2037	20.52	18.39	0%	20.52	1.054	3/1/2037	21.57	2037
4/1/2037	20.52	18.42	0%	20.52	1.054	4/1/2037	21.57	2037
5/1/2037	20.52	18.44	0%	20.52	1.054	5/1/2037	21.57	2037
6/1/2037	20.52	18.47	0%	20.52	1.054	6/1/2037	21.57	2037
7/1/2037	20.52	18.38	0%	20.52	1.054	7/1/2037	21.57	2037
8/1/2037	20.52	18.38	0%	20.52	1.054	8/1/2037	21.57	2037
9/1/2037	20.52	19.15	0%	20.52	1.054	9/1/2037	21.57	2037
10/1/2037	20.52	18.79	0%	20.52	1.054	10/1/2037	21.57	2037
11/1/2037	20.52	18.48	0%	20.52	1.054	11/1/2037	21.57	2037
12/1/2037	20.52	18.51	0%	20.52	1.054	12/1/2037	21.57	2037
1/1/2038	20.91	18.71	0%	20.91	1.054	1/1/2038	21.96	2038
2/1/2038	20.91	18.74	0%	20.91	1.054	2/1/2038	21.96	2038
3/1/2038	20.91	18.76	0%	20.91	1.070	3/1/2038	21.98	2038
4/1/2038	20.91	18.79	0%	20.91	1.070	4/1/2038	21.98	2038
5/1/2038	20.91	18.81	0%	20.91	1.070	5/1/2038	21.98	2038
6/1/2038	20.91	18.83	0%	20.91	1.070	6/1/2038	21.98	2038
7/1/2038	20.91	18.75	0%	20.91	1.070	7/1/2038	21.98	2038
8/1/2038	20.91	18.75	0%	20.91	1.070	8/1/2038	21.98	2038
9/1/2038	20.91	19.53	0%	20.91	1.070	9/1/2038	21.98	2038
10/1/2038	20.91	19.17	0%	20.91	1.070	10/1/2038	21.98	2038
11/1/2038	20.91	18.85	0%	20.91	1.070	11/1/2038	21.98	2038
12/1/2038	20.91	18.88	0%	20.91	1.070	12/1/2038	21.98	2038
1/1/2039	21.29	19.09	0%	21.29	1.070	1/1/2039	22.36	2039
2/1/2039	21.29	19.11	0%	21.29	1.070	2/1/2039	22.36	2039
3/1/2039	21.29	19.14	0%	21.29	1.086	3/1/2039	22.37	2039
4/1/2039	21.29	19.16	0%	21.29	1.086	4/1/2039	22.37	2039
5/1/2039	21.29	19.19	0%	21.29	1.086	5/1/2039	22.37	2039
6/1/2039	21.29	19.21	0%	21.29	1.086	6/1/2039	22.37	2039
7/1/2039	21.29	19.13	0%	21.29	1.086	7/1/2039	22.37	2039
8/1/2039	21.29	19.13	0%	21.29	1.086	8/1/2039	22.37	2039
9/1/2039	21.29	19.93	0%	21.29	1.086	9/1/2039	22.37	2039
10/1/2039	21.29	19.55	0%	21.29	1.086	10/1/2039	22.37	2039
11/1/2039	21.29	19.22	0%	21.29	1.086	11/1/2039	22.37	2039
12/1/2039	21.29	19.26	0%	21.29	1.086	12/1/2039	22.37	2039
1/1/2040	21.42	19.47	0%	21.42	1.086	1/1/2040	22.51	2040
2/1/2040	21.42	19.49	0%	21.42	1.086	2/1/2040	22.51	2040
3/1/2040	21.42	19.52	0%	21.42	1.102	3/1/2040	22.52	2040
4/1/2040	21.42	19.54	0%	21.42	1.102	4/1/2040	22.52	2040
5/1/2040	21.42	19.57	0%	21.42	1.102	5/1/2040	22.52	2040
6/1/2040	21.42	19.60	0%	21.42	1.102	6/1/2040	22.52	2040
7/1/2040	21.42	19.51	0%	21.42	1.102	7/1/2040	22.52	2040
8/1/2040	21.42	19.51	0%	21.42	1.102	8/1/2040	22.52	2040
9/1/2040	21.42	20.32	0%	21.42	1.102	9/1/2040	22.52	2040
10/1/2040	21.42	19.94	0%	21.42	1.102	10/1/2040	22.52	2040
11/1/2040	21.42	19.61	0%	21.42	1.102	11/1/2040	22.52	2040
12/1/2040	21.42	19.64	0%	21.42	1.102	12/1/2040	22.52	2040
1/1/2041	21.98	19.86	0%	21.98	1.102	1/1/2041	23.08	2041
2/1/2041	21.98	19.88	0%	21.98	1.102	2/1/2041	23.08	2041
3/1/2041	21.98	19.91	0%	21.98	1.119	3/1/2041	23.10	2041
4/1/2041	21.98	19.94	0%	21.98	1.119	4/1/2041	23.10	2041
5/1/2041	21.98	19.96	0%	21.98	1.119	5/1/2041	23.10	2041
6/1/2041	21.98	19.99	0%	21.98	1.119	6/1/2041	23.10	2041
7/1/2041	21.98	19.90	0%	21.98	1.119	7/1/2041	23.10	2041
8/1/2041	21.98	19.90	0%	21.98	1.119	8/1/2041	23.10	2041
9/1/2041	21.98	20.73	0%	21.98	1.119	9/1/2041	23.10	2041
10/1/2041	21.98	20.34	0%	21.98	1.119	10/1/2041	23.10	2041
11/1/2041	21.98	20.00	0%	21.98	1.119	11/1/2041	23.10	2041
12/1/2041	21.98	20.04	0%	21.98	1.119	12/1/2041	23.10	2041
1/1/2042	22.55	20.25	0%	22.55	1.119	1/1/2042	23.67	2042
2/1/2042	22.55	20.28	0%	22.55	1.119	2/1/2042	23.67	2042

3/1/2042	22.55	20.31	0%	22.55	1.135	3/1/2042	23.69	2042
4/1/2042	22.55	20.33	0%	22.55	1.135	4/1/2042	23.69	2042
5/1/2042	22.55	20.36	0%	22.55	1.135	5/1/2042	23.69	2042
6/1/2042	22.55	20.39	0%	22.55	1.135	6/1/2042	23.69	2042
7/1/2042	22.55	20.30	0%	22.55	1.135	7/1/2042	23.69	2042
8/1/2042	22.55	20.30	0%	22.55	1.135	8/1/2042	23.69	2042
9/1/2042	22.55	21.14	0%	22.55	1.135	9/1/2042	23.69	2042
10/1/2042	22.55	20.75	0%	22.55	1.135	10/1/2042	23.69	2042
11/1/2042	22.55	20.40	0%	22.55	1.135	11/1/2042	23.69	2042
12/1/2042	22.55	20.44	0%	22.55	1.135	12/1/2042	23.69	2042
1/1/2043	22.74	20.66	0%	22.74	1.135	1/1/2043	23.87	2043
2/1/2043	22.74	20.69	0%	22.74	1.135	2/1/2043	23.87	2043
3/1/2043	22.74	20.71	0%	22.74	1.152	3/1/2043	23.89	2043
4/1/2043	22.74	20.74	0%	22.74	1.152	4/1/2043	23.89	2043
5/1/2043	22.74	20.77	0%	22.74	1.152	5/1/2043	23.89	2043
6/1/2043	22.74	20.80	0%	22.74	1.152	6/1/2043	23.89	2043
7/1/2043	22.74	20.70	0%	22.74	1.152	7/1/2043	23.89	2043
8/1/2043	22.74	20.70	0%	22.74	1.152	8/1/2043	23.89	2043
9/1/2043	22.74	21.57	0%	22.74	1.152	9/1/2043	23.89	2043
10/1/2043	22.74	21.16	0%	22.74	1.152	10/1/2043	23.89	2043
11/1/2043	22.74	20.81	0%	22.74	1.152	11/1/2043	23.89	2043
12/1/2043	22.74	20.85	0%	22.74	1.152	12/1/2043	23.89	2043
1/1/2044	23.33	21.07	0%	23.33	1.152	1/1/2044	24.48	2044
2/1/2044	23.33	21.10	0%	23.33	1.152	2/1/2044	24.48	2044
3/1/2044	23.33	21.13	0%	23.33	1.170	3/1/2044	24.50	2044
4/1/2044	23.33	21.16	0%	23.33	1.170	4/1/2044	24.50	2044
5/1/2044	23.33	21.18	0%	23.33	1.170	5/1/2044	24.50	2044
6/1/2044	23.33	21.21	0%	23.33	1.170	6/1/2044	24.50	2044
7/1/2044	23.33	21.12	0%	23.33	1.170	7/1/2044	24.50	2044
8/1/2044	23.33	21.12	0%	23.33	1.170	8/1/2044	24.50	2044
9/1/2044	23.33	22.00	0%	23.33	1.170	9/1/2044	24.50	2044
10/1/2044	23.33	21.59	0%	23.33	1.170	10/1/2044	24.50	2044
11/1/2044	23.33	21.22	0%	23.33	1.170	11/1/2044	24.50	2044
12/1/2044	23.33	21.26	0%	23.33	1.170	12/1/2044	24.50	2044
1/1/2045	23.52	21.49	0%	23.52	1.170	1/1/2045	24.69	2045
2/1/2045	23.52	21.52	0%	23.52	1.170	2/1/2045	24.69	2045
3/1/2045	23.52	21.55	0%	23.52	1.187	3/1/2045	24.70	2045
4/1/2045	23.52	21.58	0%	23.52	1.187	4/1/2045	24.70	2045
5/1/2045	23.52	21.61	0%	23.52	1.187	5/1/2045	24.70	2045
6/1/2045	23.52	21.64	0%	23.52	1.187	6/1/2045	24.70	2045
7/1/2045	23.52	21.54	0%	23.52	1.187	7/1/2045	24.70	2045
8/1/2045	23.52	21.54	0%	23.52	1.187	8/1/2045	24.70	2045
9/1/2045	23.52	22.44	0%	23.52	1.187	9/1/2045	24.70	2045
10/1/2045	23.52	22.02	0%	23.52	1.187	10/1/2045	24.70	2045
11/1/2045	23.52	21.65	0%	23.52	1.187	11/1/2045	24.70	2045
12/1/2045	23.52	21.69	0%	23.52	1.187	12/1/2045	24.70	2045
1/1/2046	24.12	21.92	0%	24.12	1.187	1/1/2046	25.31	2046
2/1/2046	24.12	21.95	0%	24.12	1.187	2/1/2046	25.31	2046
3/1/2046	24.12	21.98	0%	24.12	1.205	3/1/2046	25.32	2046
4/1/2046	24.12	22.01	0%	24.12	1.205	4/1/2046	25.32	2046
5/1/2046	24.12	22.04	0%	24.12	1.205	5/1/2046	25.32	2046
6/1/2046	24.12	22.07	0%	24.12	1.205	6/1/2046	25.32	2046
7/1/2046	24.12	21.97	0%	24.12	1.205	7/1/2046	25.32	2046
8/1/2046	24.12	21.97	0%	24.12	1.205	8/1/2046	25.32	2046
9/1/2046	24.12	22.89	0%	24.12	1.205	9/1/2046	25.32	2046
10/1/2046	24.12	22.46	0%	24.12	1.205	10/1/2046	25.32	2046
11/1/2046	24.12	22.08	0%	24.12	1.205	11/1/2046	25.32	2046
12/1/2046	24.12	22.12	0%	24.12	1.205	12/1/2046	25.32	2046
1/1/2047	24.73	22.36	0%	24.73	1.205	1/1/2047	25.93	2047
2/1/2047	24.73	22.39	0%	24.73	1.205	2/1/2047	25.93	2047
3/1/2047	24.73	22.42	0%	24.73	1.223	3/1/2047	25.95	2047
4/1/2047	24.73	22.45	0%	24.73	1.223	4/1/2047	25.95	2047
5/1/2047	24.73	22.48	0%	24.73	1.223	5/1/2047	25.95	2047
6/1/2047	24.73	22.51	0%	24.73	1.223	6/1/2047	25.95	2047
7/1/2047	24.73	22.41	0%	24.73	1.223	7/1/2047	25.95	2047
8/1/2047	24.73	22.41	0%	24.73	1.223	8/1/2047	25.95	2047
9/1/2047	24.73	23.35	0%	24.73	1.223	9/1/2047	25.95	2047
10/1/2047	24.73	22.91	0%	24.73	1.223	10/1/2047	25.95	2047
11/1/2047	24.73	22.52	0%	24.73	1.223	11/1/2047	25.95	2047
12/1/2047	24.73	22.57	0%	24.73	1.223	12/1/2047	25.95	2047
1/1/2048	24.91	22.81	0%	24.91	1.223	1/1/2048	26.13	2048

2/1/2048	24.91	22.84	0%	24.91	1.223	2/1/2048	26.13	2048
3/1/2048	24.91	22.87	0%	24.91	1.241	3/1/2048	26.15	2048
4/1/2048	24.91	22.90	0%	24.91	1.241	4/1/2048	26.15	2048
5/1/2048	24.91	22.93	0%	24.91	1.241	5/1/2048	26.15	2048
6/1/2048	24.91	22.96	0%	24.91	1.241	6/1/2048	26.15	2048
7/1/2048	24.91	22.86	0%	24.91	1.241	7/1/2048	26.15	2048
8/1/2048	24.91	22.86	0%	24.91	1.241	8/1/2048	26.15	2048
9/1/2048	24.91	23.81	0%	24.91	1.241	9/1/2048	26.15	2048
10/1/2048	24.91	23.37	0%	24.91	1.241	10/1/2048	26.15	2048
11/1/2048	24.91	22.97	0%	24.91	1.241	11/1/2048	26.15	2048
12/1/2048	24.91	23.02	0%	24.91	1.241	12/1/2048	26.15	2048
1/1/2049	25.53	23.27	0%	25.53	1.241	1/1/2049	26.78	2049
2/1/2049	25.53	23.30	0%	25.53	1.241	2/1/2049	26.78	2049
3/1/2049	25.53	23.33	0%	25.53	1.260	3/1/2049	26.79	2049
4/1/2049	25.53	23.36	0%	25.53	1.260	4/1/2049	26.79	2049
5/1/2049	25.53	23.39	0%	25.53	1.260	5/1/2049	26.79	2049
6/1/2049	25.53	23.42	0%	25.53	1.260	6/1/2049	26.79	2049
7/1/2049	25.53	23.32	0%	25.53	1.260	7/1/2049	26.79	2049
8/1/2049	25.53	23.32	0%	25.53	1.260	8/1/2049	26.79	2049
9/1/2049	25.53	24.29	0%	25.53	1.260	9/1/2049	26.79	2049
10/1/2049	25.53	23.83	0%	25.53	1.260	10/1/2049	26.79	2049
11/1/2049	25.53	23.43	0%	25.53	1.260	11/1/2049	26.79	2049
12/1/2049	25.53	23.48	0%	25.53	1.260	12/1/2049	26.79	2049
1/1/2050	25.53	23.73	0%	25.53	1.260	1/1/2050	26.79	2050
2/1/2050	25.53	23.76	0%	25.53	1.260	2/1/2050	26.79	2050
3/1/2050	25.53	23.79	0%	25.53	1.279	3/1/2050	26.81	2050
4/1/2050	25.53	23.83	0%	25.53	1.279	4/1/2050	26.81	2050
5/1/2050	25.53	23.86	0%	25.53	1.279	5/1/2050	26.81	2050
6/1/2050	25.53	23.89	0%	25.53	1.279	6/1/2050	26.81	2050
7/1/2050	25.53	23.78	0%	25.53	1.279	7/1/2050	26.81	2050
8/1/2050	25.53	23.78	0%	25.53	1.279	8/1/2050	26.81	2050
9/1/2050	25.53	24.77	0%	25.53	1.279	9/1/2050	26.81	2050
10/1/2050	25.53	24.31	0%	25.53	1.279	10/1/2050	26.81	2050
11/1/2050	25.53	23.90	0%	25.53	1.279	11/1/2050	26.81	2050
12/1/2050	25.53	23.95	0%	25.53	1.279	12/1/2050	26.81	2050

Vandolah

PETROLEUM PRODUCT PRICE FORECAST DATA

PROSYM INPUT

ANNUAL AVERAGE

Date	Petroleum Product Price Forecast - Gulf Coast	TCM	Blend TCM/ Fundamental (%)	Blend TCM/ Fundamental ($)	Vandolah Transport ($/MMBtu)
1/1/2019	14.62	12.93	100%	12.93	0.505
2/1/2019	14.62	13.87	100%	13.87	0.505
3/1/2019	14.62	13.78	100%	13.78	0.505
4/1/2019	14.62	14.33	100%	14.33	0.505
5/1/2019	14.62	14.29	100%	14.29	0.505
6/1/2019	14.62	13.17	100%	13.17	0.505
7/1/2019	14.62	13.86	100%	13.86	0.505
8/1/2019	14.62	13.04	100%	13.04	0.505
9/1/2019	14.62	13.58	100%	13.58	0.505
10/1/2019	14.62	13.31	100%	13.31	0.505
11/1/2019	14.62	13.08	100%	13.08	0.505
12/1/2019	14.62	13.09	100%	13.09	0.505
1/1/2020	13.66	13.80	100%	13.80	0.513
2/1/2020	13.66	14.09	100%	14.09	0.513
3/1/2020	13.66	14.60	100%	14.60	0.513
4/1/2020	13.66	14.42	100%	14.42	0.513
5/1/2020	13.66	13.11	100%	13.11	0.513
6/1/2020	13.66	13.60	100%	13.60	0.513
7/1/2020	13.66	12.98	100%	12.98	0.513
8/1/2020	13.66	13.82	100%	13.82	0.513
9/1/2020	13.66	13.64	100%	13.64	0.513
10/1/2020	13.66	13.38	100%	13.38	0.513
11/1/2020	13.66	13.16	100%	13.16	0.513
12/1/2020	13.66	13.18	100%	13.18	0.513
1/1/2021	13.38	13.24	100%	13.24	0.520
2/1/2021	13.38	13.26	100%	13.26	0.520
3/1/2021	13.38	13.28	100%	13.28	0.520
4/1/2021	13.38	13.30	100%	13.30	0.520
5/1/2021	13.38	13.31	100%	13.31	0.520
6/1/2021	13.38	13.33	100%	13.33	0.520
7/1/2021	13.38	13.33	100%	13.33	0.520
8/1/2021	13.38	13.33	100%	13.33	0.520
9/1/2021	13.38	13.89	100%	13.89	0.520
10/1/2021	13.38	13.63	100%	13.63	0.520
11/1/2021	13.38	13.40	100%	13.40	0.520
12/1/2021	13.38	13.42	100%	13.42	0.520
1/1/2022	13.44	13.57	96%	13.57	0.528
2/1/2022	13.44	13.59	92%	13.58	0.528
3/1/2022	13.44	13.61	88%	13.59	0.528
4/1/2022	13.44	13.62	84%	13.60	0.528
5/1/2022	13.44	13.64	80%	13.60	0.528
6/1/2022	13.44	13.66	76%	13.61	0.528
7/1/2022	13.44	13.66	72%	13.60	0.528
8/1/2022	13.44	13.66	68%	13.59	0.528
9/1/2022	13.44	14.23	64%	13.95	0.528
10/1/2022	13.44	13.96	60%	13.76	0.528
11/1/2022	13.44	13.73	56%	13.60	0.528
12/1/2022	13.44	13.75	52%	13.60	0.528
1/1/2023	13.75	13.90	48%	13.82	0.536
2/1/2023	13.75	13.92	44%	13.83	0.536
3/1/2023	13.75	13.94	40%	13.83	0.536
4/1/2023	13.75	13.96	36%	13.82	0.536
5/1/2023	13.75	13.98	32%	13.82	0.536
6/1/2023	13.75	13.99	28%	13.82	0.536
7/1/2023	13.75	13.93	24%	13.79	0.536
8/1/2023	13.75	13.93	20%	13.79	0.536
9/1/2023	13.75	14.51	16%	13.87	0.536
10/1/2023	13.75	14.24	12%	13.81	0.536
11/1/2023	13.75	14.00	8%	13.77	0.536
12/1/2023	13.75	14.03	4%	13.76	0.536
1/1/2024	14.08	14.18	0%	14.08	0.544
2/1/2024	14.08	14.20	0%	14.08	0.544
3/1/2024	14.08	14.22	0%	14.08	0.544
4/1/2024	14.08	14.24	0%	14.08	0.544
5/1/2024	14.08	14.26	0%	14.08	0.544

Date	nomianl$/MMBtu
1/1/2019	13.43
2/1/2019	14.37
3/1/2019	14.29
4/1/2019	14.83
5/1/2019	14.79
6/1/2019	13.67
7/1/2019	14.37
8/1/2019	13.55
9/1/2019	14.08
10/1/2019	13.82
11/1/2019	13.58
12/1/2019	13.59
1/1/2020	14.32
2/1/2020	14.61
3/1/2020	15.11
4/1/2020	14.94
5/1/2020	13.62
6/1/2020	14.11
7/1/2020	13.50
8/1/2020	14.33
9/1/2020	14.15
10/1/2020	13.89
11/1/2020	13.67
12/1/2020	13.69
1/1/2021	13.76
2/1/2021	13.78
3/1/2021	13.80
4/1/2021	13.82
5/1/2021	13.83
6/1/2021	13.85
7/1/2021	13.85
8/1/2021	13.85
9/1/2021	14.41
10/1/2021	14.15
11/1/2021	13.92
12/1/2021	13.94
1/1/2022	14.09
2/1/2022	14.10
3/1/2022	14.11
4/1/2022	14.12
5/1/2022	14.13
6/1/2022	14.14
7/1/2022	14.13
8/1/2022	14.12
9/1/2022	14.47
10/1/2022	14.28
11/1/2022	14.13
12/1/2022	14.13
1/1/2023	14.36
2/1/2023	14.36
3/1/2023	14.36
4/1/2023	14.36
5/1/2023	14.36
6/1/2023	14.35
7/1/2023	14.33
8/1/2023	14.32
9/1/2023	14.41
10/1/2023	14.34
11/1/2023	14.31
12/1/2023	14.30
1/1/2024	14.63
2/1/2024	14.63
3/1/2024	14.63
4/1/2024	14.63
5/1/2024	14.63

		Vandolah
2019	2019	14.03
2019	2020	14.16
2019	2021	13.91
2019	2022	14.16
2019	2023	14.35
2019	2024	14.63
2019	2025	14.99
2019	2026	15.56
2019	2027	16.21
2019	2028	16.97
2019	2029	17.66
2019	2030	18.09
2020	2031	18.50
2020	2032	18.91
2020	2033	19.35
2020	2034	19.79
2020	2035	20.24
2020	2036	20.70
2020	2037	21.18
2020	2038	21.58
2020	2039	21.96
2020	2040	22.11
2020	2041	22.68
2020	2042	23.26
2021	2043	23.46
2021	2044	24.06
2021	2045	24.26
2021	2046	24.87
2021	2047	25.49
2021	2048	25.68
2021	2049	26.32
2021	2050	26.33
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6/1/2024	14.08	14.27	0%	14.08	0.544	6/1/2024	14.63	2024
7/1/2024	14.08	14.21	0%	14.08	0.544	7/1/2024	14.63	2024
8/1/2024	14.08	14.21	0%	14.08	0.544	8/1/2024	14.63	2024
9/1/2024	14.08	14.80	0%	14.08	0.544	9/1/2024	14.63	2024
10/1/2024	14.08	14.53	0%	14.08	0.544	10/1/2024	14.63	2024
11/1/2024	14.08	14.28	0%	14.08	0.544	11/1/2024	14.63	2024
12/1/2024	14.08	14.31	0%	14.08	0.544	12/1/2024	14.63	2024
1/1/2025	14.43	14.47	0%	14.43	0.552	1/1/2025	14.99	2025
2/1/2025	14.43	14.48	0%	14.43	0.552	2/1/2025	14.99	2025
3/1/2025	14.43	14.50	0%	14.43	0.552	3/1/2025	14.99	2025
4/1/2025	14.43	14.52	0%	14.43	0.552	4/1/2025	14.99	2025
5/1/2025	14.43	14.54	0%	14.43	0.552	5/1/2025	14.99	2025
6/1/2025	14.43	14.56	0%	14.43	0.552	6/1/2025	14.99	2025
7/1/2025	14.43	14.50	0%	14.43	0.552	7/1/2025	14.99	2025
8/1/2025	14.43	14.50	0%	14.43	0.552	8/1/2025	14.99	2025
9/1/2025	14.43	15.10	0%	14.43	0.552	9/1/2025	14.99	2025
10/1/2025	14.43	14.82	0%	14.43	0.552	10/1/2025	14.99	2025
11/1/2025	14.43	14.57	0%	14.43	0.552	11/1/2025	14.99	2025
12/1/2025	14.43	14.60	0%	14.43	0.552	12/1/2025	14.99	2025
1/1/2026	15.00	14.75	0%	15.00	0.561	1/1/2026	15.56	2026
2/1/2026	15.00	14.77	0%	15.00	0.561	2/1/2026	15.56	2026
3/1/2026	15.00	14.79	0%	15.00	0.561	3/1/2026	15.56	2026
4/1/2026	15.00	14.81	0%	15.00	0.561	4/1/2026	15.56	2026
5/1/2026	15.00	14.83	0%	15.00	0.561	5/1/2026	15.56	2026
6/1/2026	15.00	14.85	0%	15.00	0.561	6/1/2026	15.56	2026
7/1/2026	15.00	14.79	0%	15.00	0.561	7/1/2026	15.56	2026
8/1/2026	15.00	14.79	0%	15.00	0.561	8/1/2026	15.56	2026
9/1/2026	15.00	15.40	0%	15.00	0.561	9/1/2026	15.56	2026
10/1/2026	15.00	15.11	0%	15.00	0.561	10/1/2026	15.56	2026
11/1/2026	15.00	14.86	0%	15.00	0.561	11/1/2026	15.56	2026
12/1/2026	15.00	14.89	0%	15.00	0.561	12/1/2026	15.56	2026
1/1/2027	15.64	15.05	0%	15.64	0.569	1/1/2027	16.21	2027
2/1/2027	15.64	15.07	0%	15.64	0.569	2/1/2027	16.21	2027
3/1/2027	15.64	15.09	0%	15.64	0.569	3/1/2027	16.21	2027
4/1/2027	15.64	15.11	0%	15.64	0.569	4/1/2027	16.21	2027
5/1/2027	15.64	15.13	0%	15.64	0.569	5/1/2027	16.21	2027
6/1/2027	15.64	15.15	0%	15.64	0.569	6/1/2027	16.21	2027
7/1/2027	15.64	15.08	0%	15.64	0.569	7/1/2027	16.21	2027
8/1/2027	15.64	15.08	0%	15.64	0.569	8/1/2027	16.21	2027
9/1/2027	15.64	15.71	0%	15.64	0.569	9/1/2027	16.21	2027
10/1/2027	15.64	15.42	0%	15.64	0.569	10/1/2027	16.21	2027
11/1/2027	15.64	15.16	0%	15.64	0.569	11/1/2027	16.21	2027
12/1/2027	15.64	15.19	0%	15.64	0.569	12/1/2027	16.21	2027
1/1/2028	16.39	15.35	0%	16.39	0.577	1/1/2028	16.97	2028
2/1/2028	16.39	15.37	0%	16.39	0.577	2/1/2028	16.97	2028
3/1/2028	16.39	15.39	0%	16.39	0.577	3/1/2028	16.97	2028
4/1/2028	16.39	15.41	0%	16.39	0.577	4/1/2028	16.97	2028
5/1/2028	16.39	15.43	0%	16.39	0.577	5/1/2028	16.97	2028
6/1/2028	16.39	15.45	0%	16.39	0.577	6/1/2028	16.97	2028
7/1/2028	16.39	15.38	0%	16.39	0.577	7/1/2028	16.97	2028
8/1/2028	16.39	15.38	0%	16.39	0.577	8/1/2028	16.97	2028
9/1/2028	16.39	16.03	0%	16.39	0.577	9/1/2028	16.97	2028
10/1/2028	16.39	15.73	0%	16.39	0.577	10/1/2028	16.97	2028
11/1/2028	16.39	15.46	0%	16.39	0.577	11/1/2028	16.97	2028
12/1/2028	16.39	15.49	0%	16.39	0.577	12/1/2028	16.97	2028
1/1/2029	17.07	15.66	0%	17.07	0.586	1/1/2029	17.66	2029
2/1/2029	17.07	15.68	0%	17.07	0.586	2/1/2029	17.66	2029
3/1/2029	17.07	15.70	0%	17.07	0.586	3/1/2029	17.66	2029
4/1/2029	17.07	15.72	0%	17.07	0.586	4/1/2029	17.66	2029
5/1/2029	17.07	15.74	0%	17.07	0.586	5/1/2029	17.66	2029
6/1/2029	17.07	15.76	0%	17.07	0.586	6/1/2029	17.66	2029
7/1/2029	17.07	15.69	0%	17.07	0.586	7/1/2029	17.66	2029
8/1/2029	17.07	15.69	0%	17.07	0.586	8/1/2029	17.66	2029
9/1/2029	17.07	16.35	0%	17.07	0.586	9/1/2029	17.66	2029
10/1/2029	17.07	16.04	0%	17.07	0.586	10/1/2029	17.66	2029
11/1/2029	17.07	15.77	0%	17.07	0.586	11/1/2029	17.66	2029
12/1/2029	17.07	15.80	0%	17.07	0.586	12/1/2029	17.66	2029
1/1/2030	17.50	15.97	0%	17.50	0.595	1/1/2030	18.09	2030
2/1/2030	17.50	15.99	0%	17.50	0.595	2/1/2030	18.09	2030
3/1/2030	17.50	16.01	0%	17.50	0.595	3/1/2030	18.09	2030
4/1/2030	17.50	16.03	0%	17.50	0.595	4/1/2030	18.09	2030

5/1/2030	17.50	16.05	0%	17.50	0.595	5/1/2030	18.09	2030
6/1/2030	17.50	16.08	0%	17.50	0.595	6/1/2030	18.09	2030
7/1/2030	17.50	16.00	0%	17.50	0.595	7/1/2030	18.09	2030
8/1/2030	17.50	16.00	0%	17.50	0.595	8/1/2030	18.09	2030
9/1/2030	17.50	16.67	0%	17.50	0.595	9/1/2030	18.09	2030
10/1/2030	17.50	16.36	0%	17.50	0.595	10/1/2030	18.09	2030
11/1/2030	17.50	16.09	0%	17.50	0.595	11/1/2030	18.09	2030
12/1/2030	17.50	16.12	0%	17.50	0.595	12/1/2030	18.09	2030
1/1/2031	17.89	16.29	0%	17.89	0.604	1/1/2031	18.50	2031
2/1/2031	17.89	16.31	0%	17.89	0.604	2/1/2031	18.50	2031
3/1/2031	17.89	16.33	0%	17.89	0.604	3/1/2031	18.50	2031
4/1/2031	17.89	16.35	0%	17.89	0.604	4/1/2031	18.50	2031
5/1/2031	17.89	16.38	0%	17.89	0.604	5/1/2031	18.50	2031
6/1/2031	17.89	16.40	0%	17.89	0.604	6/1/2031	18.50	2031
7/1/2031	17.89	16.32	0%	17.89	0.604	7/1/2031	18.50	2031
8/1/2031	17.89	16.32	0%	17.89	0.604	8/1/2031	18.50	2031
9/1/2031	17.89	17.01	0%	17.89	0.604	9/1/2031	18.50	2031
10/1/2031	17.89	16.69	0%	17.89	0.604	10/1/2031	18.50	2031
11/1/2031	17.89	16.41	0%	17.89	0.604	11/1/2031	18.50	2031
12/1/2031	17.89	16.44	0%	17.89	0.604	12/1/2031	18.50	2031
1/1/2032	18.30	16.62	0%	18.30	0.613	1/1/2032	18.91	2032
2/1/2032	18.30	16.64	0%	18.30	0.613	2/1/2032	18.91	2032
3/1/2032	18.30	16.66	0%	18.30	0.613	3/1/2032	18.91	2032
4/1/2032	18.30	16.68	0%	18.30	0.613	4/1/2032	18.91	2032
5/1/2032	18.30	16.70	0%	18.30	0.613	5/1/2032	18.91	2032
6/1/2032	18.30	16.72	0%	18.30	0.613	6/1/2032	18.91	2032
7/1/2032	18.30	16.65	0%	18.30	0.613	7/1/2032	18.91	2032
8/1/2032	18.30	16.65	0%	18.30	0.613	8/1/2032	18.91	2032
9/1/2032	18.30	17.35	0%	18.30	0.613	9/1/2032	18.91	2032
10/1/2032	18.30	17.02	0%	18.30	0.613	10/1/2032	18.91	2032
11/1/2032	18.30	16.74	0%	18.30	0.613	11/1/2032	18.91	2032
12/1/2032	18.30	16.77	0%	18.30	0.613	12/1/2032	18.91	2032
1/1/2033	18.73	16.95	0%	18.73	0.622	1/1/2033	19.35	2033
2/1/2033	18.73	16.97	0%	18.73	0.622	2/1/2033	19.35	2033
3/1/2033	18.73	16.99	0%	18.73	0.622	3/1/2033	19.35	2033
4/1/2033	18.73	17.01	0%	18.73	0.622	4/1/2033	19.35	2033
5/1/2033	18.73	17.04	0%	18.73	0.622	5/1/2033	19.35	2033
6/1/2033	18.73	17.06	0%	18.73	0.622	6/1/2033	19.35	2033
7/1/2033	18.73	16.98	0%	18.73	0.622	7/1/2033	19.35	2033
8/1/2033	18.73	16.98	0%	18.73	0.622	8/1/2033	19.35	2033
9/1/2033	18.73	17.69	0%	18.73	0.622	9/1/2033	19.35	2033
10/1/2033	18.73	17.36	0%	18.73	0.622	10/1/2033	19.35	2033
11/1/2033	18.73	17.07	0%	18.73	0.622	11/1/2033	19.35	2033
12/1/2033	18.73	17.10	0%	18.73	0.622	12/1/2033	19.35	2033
1/1/2034	19.16	17.29	0%	19.16	0.631	1/1/2034	19.79	2034
2/1/2034	19.16	17.31	0%	19.16	0.631	2/1/2034	19.79	2034
3/1/2034	19.16	17.33	0%	19.16	0.631	3/1/2034	19.79	2034
4/1/2034	19.16	17.36	0%	19.16	0.631	4/1/2034	19.79	2034
5/1/2034	19.16	17.38	0%	19.16	0.631	5/1/2034	19.79	2034
6/1/2034	19.16	17.40	0%	19.16	0.631	6/1/2034	19.79	2034
7/1/2034	19.16	17.32	0%	19.16	0.631	7/1/2034	19.79	2034
8/1/2034	19.16	17.32	0%	19.16	0.631	8/1/2034	19.79	2034
9/1/2034	19.16	18.05	0%	19.16	0.631	9/1/2034	19.79	2034
10/1/2034	19.16	17.71	0%	19.16	0.631	10/1/2034	19.79	2034
11/1/2034	19.16	17.41	0%	19.16	0.631	11/1/2034	19.79	2034
12/1/2034	19.16	17.44	0%	19.16	0.631	12/1/2034	19.79	2034
1/1/2035	19.60	17.63	0%	19.60	0.641	1/1/2035	20.24	2035
2/1/2035	19.60	17.66	0%	19.60	0.641	2/1/2035	20.24	2035
3/1/2035	19.60	17.68	0%	19.60	0.641	3/1/2035	20.24	2035
4/1/2035	19.60	17.70	0%	19.60	0.641	4/1/2035	20.24	2035
5/1/2035	19.60	17.73	0%	19.60	0.641	5/1/2035	20.24	2035
6/1/2035	19.60	17.75	0%	19.60	0.641	6/1/2035	20.24	2035
7/1/2035	19.60	17.67	0%	19.60	0.641	7/1/2035	20.24	2035
8/1/2035	19.60	17.67	0%	19.60	0.641	8/1/2035	20.24	2035
9/1/2035	19.60	18.41	0%	19.60	0.641	9/1/2035	20.24	2035
10/1/2035	19.60	18.06	0%	19.60	0.641	10/1/2035	20.24	2035
11/1/2035	19.60	17.76	0%	19.60	0.641	11/1/2035	20.24	2035
12/1/2035	19.60	17.79	0%	19.60	0.641	12/1/2035	20.24	2035
1/1/2036	20.05	17.99	0%	20.05	0.641	1/1/2036	20.69	2036
2/1/2036	20.05	18.01	0%	20.05	0.641	2/1/2036	20.69	2036
3/1/2036	20.05	18.03	0%	20.05	0.651	3/1/2036	20.70	2036

4/1/2036	20.05	18.06	0%	20.05	0.651	4/1/2036	20.70	2036
5/1/2036	20.05	18.08	0%	20.05	0.651	5/1/2036	20.70	2036
6/1/2036	20.05	18.10	0%	20.05	0.651	6/1/2036	20.70	2036
7/1/2036	20.05	18.02	0%	20.05	0.651	7/1/2036	20.70	2036
8/1/2036	20.05	18.02	0%	20.05	0.651	8/1/2036	20.70	2036
9/1/2036	20.05	18.78	0%	20.05	0.651	9/1/2036	20.70	2036
10/1/2036	20.05	18.42	0%	20.05	0.651	10/1/2036	20.70	2036
11/1/2036	20.05	18.12	0%	20.05	0.651	11/1/2036	20.70	2036
12/1/2036	20.05	18.15	0%	20.05	0.651	12/1/2036	20.70	2036
1/1/2037	20.52	18.35	0%	20.52	0.651	1/1/2037	21.17	2037
2/1/2037	20.52	18.37	0%	20.52	0.651	2/1/2037	21.17	2037
3/1/2037	20.52	18.39	0%	20.52	0.660	3/1/2037	21.18	2037
4/1/2037	20.52	18.42	0%	20.52	0.660	4/1/2037	21.18	2037
5/1/2037	20.52	18.44	0%	20.52	0.660	5/1/2037	21.18	2037
6/1/2037	20.52	18.47	0%	20.52	0.660	6/1/2037	21.18	2037
7/1/2037	20.52	18.38	0%	20.52	0.660	7/1/2037	21.18	2037
8/1/2037	20.52	18.38	0%	20.52	0.660	8/1/2037	21.18	2037
9/1/2037	20.52	19.15	0%	20.52	0.660	9/1/2037	21.18	2037
10/1/2037	20.52	18.79	0%	20.52	0.660	10/1/2037	21.18	2037
11/1/2037	20.52	18.48	0%	20.52	0.660	11/1/2037	21.18	2037
12/1/2037	20.52	18.51	0%	20.52	0.660	12/1/2037	21.18	2037
1/1/2038	20.91	18.71	0%	20.91	0.660	1/1/2038	21.57	2038
2/1/2038	20.91	18.74	0%	20.91	0.660	2/1/2038	21.57	2038
3/1/2038	20.91	18.76	0%	20.91	0.670	3/1/2038	21.58	2038
4/1/2038	20.91	18.79	0%	20.91	0.670	4/1/2038	21.58	2038
5/1/2038	20.91	18.81	0%	20.91	0.670	5/1/2038	21.58	2038
6/1/2038	20.91	18.83	0%	20.91	0.670	6/1/2038	21.58	2038
7/1/2038	20.91	18.75	0%	20.91	0.670	7/1/2038	21.58	2038
8/1/2038	20.91	18.75	0%	20.91	0.670	8/1/2038	21.58	2038
9/1/2038	20.91	19.53	0%	20.91	0.670	9/1/2038	21.58	2038
10/1/2038	20.91	19.17	0%	20.91	0.670	10/1/2038	21.58	2038
11/1/2038	20.91	18.85	0%	20.91	0.670	11/1/2038	21.58	2038
12/1/2038	20.91	18.88	0%	20.91	0.670	12/1/2038	21.58	2038
1/1/2039	21.29	19.09	0%	21.29	0.670	1/1/2039	21.96	2039
2/1/2039	21.29	19.11	0%	21.29	0.670	2/1/2039	21.96	2039
3/1/2039	21.29	19.14	0%	21.29	0.680	3/1/2039	21.97	2039
4/1/2039	21.29	19.16	0%	21.29	0.680	4/1/2039	21.97	2039
5/1/2039	21.29	19.19	0%	21.29	0.680	5/1/2039	21.97	2039
6/1/2039	21.29	19.21	0%	21.29	0.680	6/1/2039	21.97	2039
7/1/2039	21.29	19.13	0%	21.29	0.680	7/1/2039	21.97	2039
8/1/2039	21.29	19.13	0%	21.29	0.680	8/1/2039	21.97	2039
9/1/2039	21.29	19.93	0%	21.29	0.680	9/1/2039	21.97	2039
10/1/2039	21.29	19.55	0%	21.29	0.680	10/1/2039	21.97	2039
11/1/2039	21.29	19.22	0%	21.29	0.680	11/1/2039	21.97	2039
12/1/2039	21.29	19.26	0%	21.29	0.680	12/1/2039	21.97	2039
1/1/2040	21.42	19.47	0%	21.42	0.680	1/1/2040	22.10	2040
2/1/2040	21.42	19.49	0%	21.42	0.680	2/1/2040	22.10	2040
3/1/2040	21.42	19.52	0%	21.42	0.691	3/1/2040	22.11	2040
4/1/2040	21.42	19.54	0%	21.42	0.691	4/1/2040	22.11	2040
5/1/2040	21.42	19.57	0%	21.42	0.691	5/1/2040	22.11	2040
6/1/2040	21.42	19.60	0%	21.42	0.691	6/1/2040	22.11	2040
7/1/2040	21.42	19.51	0%	21.42	0.691	7/1/2040	22.11	2040
8/1/2040	21.42	19.51	0%	21.42	0.691	8/1/2040	22.11	2040
9/1/2040	21.42	20.32	0%	21.42	0.691	9/1/2040	22.11	2040
10/1/2040	21.42	19.94	0%	21.42	0.691	10/1/2040	22.11	2040
11/1/2040	21.42	19.61	0%	21.42	0.691	11/1/2040	22.11	2040
12/1/2040	21.42	19.64	0%	21.42	0.691	12/1/2040	22.11	2040
1/1/2041	21.98	19.86	0%	21.98	0.691	1/1/2041	22.67	2041
2/1/2041	21.98	19.88	0%	21.98	0.691	2/1/2041	22.67	2041
3/1/2041	21.98	19.91	0%	21.98	0.701	3/1/2041	22.68	2041
4/1/2041	21.98	19.94	0%	21.98	0.701	4/1/2041	22.68	2041
5/1/2041	21.98	19.96	0%	21.98	0.701	5/1/2041	22.68	2041
6/1/2041	21.98	19.99	0%	21.98	0.701	6/1/2041	22.68	2041
7/1/2041	21.98	19.90	0%	21.98	0.701	7/1/2041	22.68	2041
8/1/2041	21.98	19.90	0%	21.98	0.701	8/1/2041	22.68	2041
9/1/2041	21.98	20.73	0%	21.98	0.701	9/1/2041	22.68	2041
10/1/2041	21.98	20.34	0%	21.98	0.701	10/1/2041	22.68	2041
11/1/2041	21.98	20.00	0%	21.98	0.701	11/1/2041	22.68	2041
12/1/2041	21.98	20.04	0%	21.98	0.701	12/1/2041	22.68	2041
1/1/2042	22.55	20.25	0%	22.55	0.701	1/1/2042	23.25	2042
2/1/2042	22.55	20.28	0%	22.55	0.701	2/1/2042	23.25	2042

3/1/2042	22.55	20.31	0%	22.55	0.711	3/1/2042	23.26	2042
4/1/2042	22.55	20.33	0%	22.55	0.711	4/1/2042	23.26	2042
5/1/2042	22.55	20.36	0%	22.55	0.711	5/1/2042	23.26	2042
6/1/2042	22.55	20.39	0%	22.55	0.711	6/1/2042	23.26	2042
7/1/2042	22.55	20.30	0%	22.55	0.711	7/1/2042	23.26	2042
8/1/2042	22.55	20.30	0%	22.55	0.711	8/1/2042	23.26	2042
9/1/2042	22.55	21.14	0%	22.55	0.711	9/1/2042	23.26	2042
10/1/2042	22.55	20.75	0%	22.55	0.711	10/1/2042	23.26	2042
11/1/2042	22.55	20.40	0%	22.55	0.711	11/1/2042	23.26	2042
12/1/2042	22.55	20.44	0%	22.55	0.711	12/1/2042	23.26	2042
1/1/2043	22.74	20.66	0%	22.74	0.711	1/1/2043	23.45	2043
2/1/2043	22.74	20.69	0%	22.74	0.711	2/1/2043	23.45	2043
3/1/2043	22.74	20.71	0%	22.74	0.722	3/1/2043	23.46	2043
4/1/2043	22.74	20.74	0%	22.74	0.722	4/1/2043	23.46	2043
5/1/2043	22.74	20.77	0%	22.74	0.722	5/1/2043	23.46	2043
6/1/2043	22.74	20.80	0%	22.74	0.722	6/1/2043	23.46	2043
7/1/2043	22.74	20.70	0%	22.74	0.722	7/1/2043	23.46	2043
8/1/2043	22.74	20.70	0%	22.74	0.722	8/1/2043	23.46	2043
9/1/2043	22.74	21.57	0%	22.74	0.722	9/1/2043	23.46	2043
10/1/2043	22.74	21.16	0%	22.74	0.722	10/1/2043	23.46	2043
11/1/2043	22.74	20.81	0%	22.74	0.722	11/1/2043	23.46	2043
12/1/2043	22.74	20.85	0%	22.74	0.722	12/1/2043	23.46	2043
1/1/2044	23.33	21.07	0%	23.33	0.722	1/1/2044	24.05	2044
2/1/2044	23.33	21.10	0%	23.33	0.722	2/1/2044	24.05	2044
3/1/2044	23.33	21.13	0%	23.33	0.733	3/1/2044	24.06	2044
4/1/2044	23.33	21.16	0%	23.33	0.733	4/1/2044	24.06	2044
5/1/2044	23.33	21.18	0%	23.33	0.733	5/1/2044	24.06	2044
6/1/2044	23.33	21.21	0%	23.33	0.733	6/1/2044	24.06	2044
7/1/2044	23.33	21.12	0%	23.33	0.733	7/1/2044	24.06	2044
8/1/2044	23.33	21.12	0%	23.33	0.733	8/1/2044	24.06	2044
9/1/2044	23.33	22.00	0%	23.33	0.733	9/1/2044	24.06	2044
10/1/2044	23.33	21.59	0%	23.33	0.733	10/1/2044	24.06	2044
11/1/2044	23.33	21.22	0%	23.33	0.733	11/1/2044	24.06	2044
12/1/2044	23.33	21.26	0%	23.33	0.733	12/1/2044	24.06	2044
1/1/2045	23.52	21.49	0%	23.52	0.733	1/1/2045	24.25	2045
2/1/2045	23.52	21.52	0%	23.52	0.733	2/1/2045	24.25	2045
3/1/2045	23.52	21.55	0%	23.52	0.744	3/1/2045	24.26	2045
4/1/2045	23.52	21.58	0%	23.52	0.744	4/1/2045	24.26	2045
5/1/2045	23.52	21.61	0%	23.52	0.744	5/1/2045	24.26	2045
6/1/2045	23.52	21.64	0%	23.52	0.744	6/1/2045	24.26	2045
7/1/2045	23.52	21.54	0%	23.52	0.744	7/1/2045	24.26	2045
8/1/2045	23.52	21.54	0%	23.52	0.744	8/1/2045	24.26	2045
9/1/2045	23.52	22.44	0%	23.52	0.744	9/1/2045	24.26	2045
10/1/2045	23.52	22.02	0%	23.52	0.744	10/1/2045	24.26	2045
11/1/2045	23.52	21.65	0%	23.52	0.744	11/1/2045	24.26	2045
12/1/2045	23.52	21.69	0%	23.52	0.744	12/1/2045	24.26	2045
1/1/2046	24.12	21.92	0%	24.12	0.744	1/1/2046	24.86	2046
2/1/2046	24.12	21.95	0%	24.12	0.744	2/1/2046	24.86	2046
3/1/2046	24.12	21.98	0%	24.12	0.755	3/1/2046	24.87	2046
4/1/2046	24.12	22.01	0%	24.12	0.755	4/1/2046	24.87	2046
5/1/2046	24.12	22.04	0%	24.12	0.755	5/1/2046	24.87	2046
6/1/2046	24.12	22.07	0%	24.12	0.755	6/1/2046	24.87	2046
7/1/2046	24.12	21.97	0%	24.12	0.755	7/1/2046	24.87	2046
8/1/2046	24.12	21.97	0%	24.12	0.755	8/1/2046	24.87	2046
9/1/2046	24.12	22.89	0%	24.12	0.755	9/1/2046	24.87	2046
10/1/2046	24.12	22.46	0%	24.12	0.755	10/1/2046	24.87	2046
11/1/2046	24.12	22.08	0%	24.12	0.755	11/1/2046	24.87	2046
12/1/2046	24.12	22.12	0%	24.12	0.755	12/1/2046	24.87	2046
1/1/2047	24.73	22.36	0%	24.73	0.755	1/1/2047	25.48	2047
2/1/2047	24.73	22.39	0%	24.73	0.755	2/1/2047	25.48	2047
3/1/2047	24.73	22.42	0%	24.73	0.766	3/1/2047	25.50	2047
4/1/2047	24.73	22.45	0%	24.73	0.766	4/1/2047	25.50	2047
5/1/2047	24.73	22.48	0%	24.73	0.766	5/1/2047	25.50	2047
6/1/2047	24.73	22.51	0%	24.73	0.766	6/1/2047	25.50	2047
7/1/2047	24.73	22.41	0%	24.73	0.766	7/1/2047	25.50	2047
8/1/2047	24.73	22.41	0%	24.73	0.766	8/1/2047	25.50	2047
9/1/2047	24.73	23.35	0%	24.73	0.766	9/1/2047	25.50	2047
10/1/2047	24.73	22.91	0%	24.73	0.766	10/1/2047	25.50	2047
11/1/2047	24.73	22.52	0%	24.73	0.766	11/1/2047	25.50	2047
12/1/2047	24.73	22.57	0%	24.73	0.766	12/1/2047	25.50	2047
1/1/2048	24.91	22.81	0%	24.91	0.766	1/1/2048	25.67	2048

2/1/2048	24.91	22.84	0%	24.91	0.766	2/1/2048	25.67	2048
3/1/2048	24.91	22.87	0%	24.91	0.778	3/1/2048	25.68	2048
4/1/2048	24.91	22.90	0%	24.91	0.778	4/1/2048	25.68	2048
5/1/2048	24.91	22.93	0%	24.91	0.778	5/1/2048	25.68	2048
6/1/2048	24.91	22.96	0%	24.91	0.778	6/1/2048	25.68	2048
7/1/2048	24.91	22.86	0%	24.91	0.778	7/1/2048	25.68	2048
8/1/2048	24.91	22.86	0%	24.91	0.778	8/1/2048	25.68	2048
9/1/2048	24.91	23.81	0%	24.91	0.778	9/1/2048	25.68	2048
10/1/2048	24.91	23.37	0%	24.91	0.778	10/1/2048	25.68	2048
11/1/2048	24.91	22.97	0%	24.91	0.778	11/1/2048	25.68	2048
12/1/2048	24.91	23.02	0%	24.91	0.778	12/1/2048	25.68	2048
1/1/2049	25.53	23.27	0%	25.53	0.778	1/1/2049	26.31	2049
2/1/2049	25.53	23.30	0%	25.53	0.778	2/1/2049	26.31	2049
3/1/2049	25.53	23.33	0%	25.53	0.790	3/1/2049	26.32	2049
4/1/2049	25.53	23.36	0%	25.53	0.790	4/1/2049	26.32	2049
5/1/2049	25.53	23.39	0%	25.53	0.790	5/1/2049	26.32	2049
6/1/2049	25.53	23.42	0%	25.53	0.790	6/1/2049	26.32	2049
7/1/2049	25.53	23.32	0%	25.53	0.790	7/1/2049	26.32	2049
8/1/2049	25.53	23.32	0%	25.53	0.790	8/1/2049	26.32	2049
9/1/2049	25.53	24.29	0%	25.53	0.790	9/1/2049	26.32	2049
10/1/2049	25.53	23.83	0%	25.53	0.790	10/1/2049	26.32	2049
11/1/2049	25.53	23.43	0%	25.53	0.790	11/1/2049	26.32	2049
12/1/2049	25.53	23.48	0%	25.53	0.790	12/1/2049	26.32	2049
1/1/2050	25.53	23.73	0%	25.53	0.790	1/1/2050	26.32	2050
2/1/2050	25.53	23.76	0%	25.53	0.790	2/1/2050	26.32	2050
3/1/2050	25.53	23.79	0%	25.53	0.801	3/1/2050	26.34	2050
4/1/2050	25.53	23.83	0%	25.53	0.801	4/1/2050	26.34	2050
5/1/2050	25.53	23.86	0%	25.53	0.801	5/1/2050	26.34	2050
6/1/2050	25.53	23.89	0%	25.53	0.801	6/1/2050	26.34	2050
7/1/2050	25.53	23.78	0%	25.53	0.801	7/1/2050	26.34	2050
8/1/2050	25.53	23.78	0%	25.53	0.801	8/1/2050	26.34	2050
9/1/2050	25.53	24.77	0%	25.53	0.801	9/1/2050	26.34	2050
10/1/2050	25.53	24.31	0%	25.53	0.801	10/1/2050	26.34	2050
11/1/2050	25.53	23.90	0%	25.53	0.801	11/1/2050	26.34	2050
12/1/2050	25.53	23.95	0%	25.53	0.801	12/1/2050	26.34	2050