

REDACTED

Dkt. No. 050693-TL
D. Blessing Ex. No. ___ (DCB-4)
Hatfield Cost Study
(Non-Confidential)

BEFORE THE FLORIDA PUBLIC SERVICE COMMISSION

In re: Alltel Florida, Inc.'s Petition)
To Reduce Intrastate Switched Network)
Access Rates In A Revenue Neutral)
Manner Pursuant to Section 364.164,)
Florida Statutes)
_____)

Exhibit DCB-4

(Non-Confidential) Hatfield HAI 5.0a – Default and ALLTEL-specific model runs plus input changes.

DOCUMENT NUMBER-DATE

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FPSC-COMMISSION CLERK



ALLTEL Florida, Inc.
HAI Cost Model Results
ALLTEL Company Specific Scenario
Using ALLTEL Florida Inputs at September 12, 2005

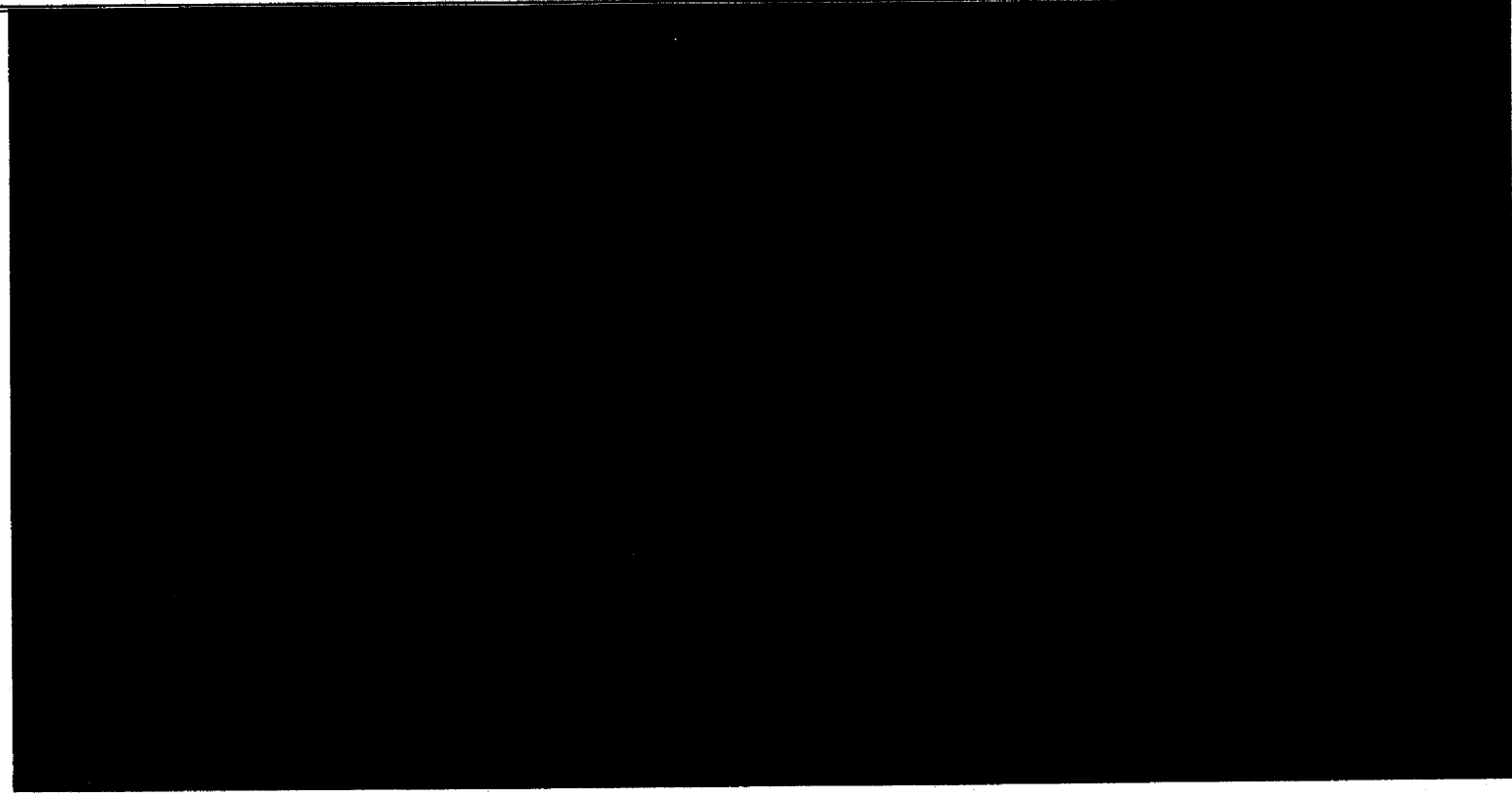
Wirecenter	Lines	UNE Loop	Monthly Line Cost	Residential Line	Business Line
ALCHFLXA					
BORAFFLXA					
BRFRFLXA					
BRKRFLXA					
CITRFLXA					
CLHNFLXA					
CRCYFLXA					
DWPKFLXA					
FLRHFLXA					
FTWHFLXA					
HGSPFLXA					
HLRDFLXA					
HSNGFLXA					
INTRFLXA					
JNGSFLXA					
JSPRFLXA					
LKBTFLLXA					
LRVFLXA					
LVOKFLXA					
MAYOFLXA					
MCINFLXA					
MLRSFLXA					
ORSPFLXA					
RAFRLXA					
WALDFLXA					
WHSPFLXA					
WLBRLXA					
FL Average					

Notes: UNE Loop is loop only
Monthly Cost is Loop + Port + Transport + Usage
Monthly residential and business line costs come from Worksheet "USF".

HAI Model Release 5.0a - Expense Module Wire Center Level Calculations

Florida		Alltel Florida Inc								
cli	total lines	business lines	residential lines	special access lines	public lines	single line business lines	households	copper feeder cable u/g	copper feeder cable buried	copper feeder cable aerial

ALCHFLXA
BORAFLXA
BRFRFLXA
BRKRFLXA
CITRFLXA
CLHNFLXA
CRCYFLXA
DWPKFLXA
FLRHFLXA
FTWHFLXA
HGSPFLXA
HLRDFLXA
HSNGFLXA
INTRFLXA
JNGSFLXA
JSPRFLXA
LKBTFLEXA
LRVFLXA
LVOKFLXA
MAYOFLXA
MCINFLXA
MLRSFLXA
ORSPFLXA
RAFRFLXA
WALDFLXA
WHSPFLXA
WLBFLXA



Investment Input

cli	fiber feeder cable u/g	fiber feeder cable buried	fiber feeder cable aerial	feeder conduit	feeder manholes	copper feeder u/g placement	fiber feeder u/g placement	copper feeder buried placement	fiber feeder buried placement
ALCHFLXA									
BORAFLXA									
BRFRFLXA									
BRKRFLXA									
CITRFLXA									
CLHNFLXA									
CRCYFLXA									
DWPKFLXA									
FLRHFLXA									
FTWHFLXA									
HGSPFLXA									
HLRDFLXA									
HSNGFLXA									
INTRFLXA									
JNGSFLXA									
JSPRFLXA									
LKBTFLXA									
LRVFLXA									
LVOKFLXA									
MAYOFLXA									
MCINFLXA									
MLRSFLXA									
ORSPFLXA									
RAFRFLXA									
WALDFLXA									
WHSPFLXA									
WLBRFLXA									

Investment Input

cli	feeder pole inv	distribution cable underground	distribution cable buried	distribution cable aerial	distribution conduit	distribution conduit placement	distribution buried placement	distribution poles	calc copper feeder fill
ALCHFLXA									
BORAFLXA									
BRFRFLXA									
BRKRFLXA									
CITRFLXA									
CLHNFLXA									
CRCYFLXA									
DWPKFLXA									
FLRHFLXA									
FTWHFLXA									
HGSPFLXA									
HLRDFLXA									
HSNGFLXA									
INTRFLXA									
JNGSFLXA									
JSPRFLXA									
LKBTFLXA									
LRVLFLXA									
LVOKFLXA									
MAYOFLXA									
MCINFLXA									
MLRSFLXA									
ORSPFLXA									
RAFREFLXA									
WALDFLXA									
WHSPFLXA									
WLBREFLXA									

Investment Input

cli	calc distribution fill	calc "mainframe fill"	DLC inv w/site	SAI inv	terminal inv	drop inv	NID inv	feeder distance	total distribution distance	DLC lines
ALCHFLXA										
BORAFIXA										
BRFRFLXA										
BRKRFLXA										
CITRFLXA										
CLHNFLXA										
CRCYFLXA										
DWPKFLXA										
FLRHFLXA										
FTWHFLXA										
HGSPFLXA										
HLRDFLXA										
HSNGFLXA										
INTRFLXA										
JNGSFLXA										
JSPRFLXA										
LKBTFIXA										
LRVLFLXA										
LVOKFLXA										
MAYOFLXA										
MCINFLXA										
MLRSFLXA										
ORSPFLXA										
RAFRFLXA										
WALDFLXA										
WHSPFLXA										
WLBFLXA										

Investment Input

cli	end office switching	MDF/protector Inv	end office wire center	land	local tandem switching	local tandem wire center	OS tandem switching	OS tandem wire center	OS trunks	operator position
ALCHFLXA										
BORAFFLXA										
BRFRFLXA										
BRKRFLXA										
CITRFLXA										
CLHNFLXA										
CRCYFLXA										
DWPKFLXA										
FLRHFLXA										
FTWHFLXA										
HGSPFLXA										
HLRDFLXA										
HSNGFLXA										
INTRFLXA										
JNGSFLXA										
JSPRFLXA										
LKBTFLXA										
LRVLFLLXA										
LVOKFLXA										
MAYOFLLXA										
MCINFLXA										
MLRSFLXA										
ORSPFLXA										
RAFRLFLXA										
WALDFLLXA										
WHSPFLXA										
WLBRLFLXA										

Investment Input

cli	common transport, u/g	common transport, buried	common transport, aerial	common transport, poles	common transport, conduit	common transport, manholes	common transmission terminal inv	direct transport, u/g	direct transport, buried	direct transport, aerial
ALCHFLXA										
BORAFLXA										
BRFRFLXA										
BRKRFLXA										
CITRFLXA										
CLHNFLXA										
CRCYFLXA										
DWPKFLXA										
FLRHFLXA										
FTWHFLXA										
HGSPFLXA										
HLRDFLXA										
HSNGFLXA										
INTRFLXA										
JNGSFLXA										
JSPRFLXA										
LKBTFLEXA										
LRVFLXA										
LVOKFLXA										
MAYOFLXA										
MCINFLXA										
MLRSFLXA										
ORSPFLXA										
RAFRFLXA										
WALDFLXA										
WHSPFLXA										
WLBRFLXA										

Investment Input

cli	direct transport, poles	direct transport, conduit	direct transport, manholes	direct transmission terminal inv	dedicated transport, u/g	dedicated transport, buried	dedicated transport, aerial	dedicated transport, poles	dedicated transport, conduit	dedicated transport, manholes
ALCHFLXA										
BORAFLEXA										
BRFRFLXA										
BRKRFLXA										
CITRFLXA										
CLHNFLXA										
CRCYFLXA										
DWPKFLXA										
FLRHFLXA										
FTWHFLXA										
HGSPFLXA										
HLRDFLXA										
HSNGFLXA										
INTRFLXA										
JNGSFLXA										
JSPRFLXA										
LKBTFLEXA										
LRVFLXA										
LVOKFLXA										
MAYOFLXA										
MCINFLXA										
MLRSFLXA										
ORSPFLXA										
RAFRLXA										
WALDFLXA										
WHSPFLXA										
WLBRLXA										

Investment Input

cli	dedicated transmission terminal inv	prop local direct trunks	prop local tandem trunks	prop intralATA direct trunks	prop intralATA tandem trunks	prop access direct trunks	prop access tandem trunks	prop operator trunks	SCP inv	SCP wire center inv
ALCHFLXA										
BORAFFLXA										
BRFRFLXA										
BRKRFLXA										
CITRFLXA										
CLHNFLXA										
CRCYFLXA										
DWPKFLXA										
FLRHFLXA										
FTWHFLXA										
HGSPFLXA										
HLRDFLXA										
HSNGFLXA										
INTRFLXA										
JNGSFLXA										
JSPRFLXA										
LKBTFLXA										
LRVLFLXA										
LVOKFLXA										
MAYOFLXA										
MCINFLXA										
MLRSFLXA										
ORSPFLXA										
RAFRFLXA										
WALDFLXA										
WHSPFLXA										
WLBRLFLXA										

Investment Input

cli	STP inv	signaling link inv	total public telephone inv	total residential annual DEMs	total business annual DEMs	Total Investment	Total DEMs	total trunks	Distribution Cable /ig Direct Cost
ALCHFLXA									
BORAFLXA									
BRFRFLXA									
BRKRFLXA									
CITRFLXA									
CLHNFLXA									
CRCYFLXA									
DWPKFLXA									
FLRHFLXA									
FTWHFLXA									
HGSPFLXA									
HLRDFLXA									
HSNGFLXA									
INTRFLXA									
JNGSFLXA									
JSPRFLXA									
LKBTFLXA									
LRVFLXA									
LVOKFLXA									
MAYOFLXA									
MCINFLXA									
MLRSFLXA									
ORSPFLXA									
RAFRFLXA									
WALDFLXA									
WHSPFLXA									
WLBFLXA									

Investment Input

cli	Distribution Direct Cost								
	Distribution Cable Buried Direct Cost	Distribution Cable Aerial Direct Cost	Distribution Conduit Direct Cost	Distribution Conduit Trenching Direct Cost	Distribution Poles Direct Cost	Drop Direct Cost	NID Direct Cost	Terminal Direct Cost	Distribution Buried Trenching Direct Cost
ALCHFLXA									
BORAFIXA									
BRFRFLXA									
BRKRFLXA									
CITRFLXA									
CLHNFLXA									
CRCYFLXA									
DWPKFLXA									
FLRHFLXA									
FTWHFLXA									
HGSPFLXA									
HLRDFLXA									
HSNGFLXA									
INTRFLXA									
JNGSFLXA									
JSPRFLXA									
LKBTFLXA									
LRVFLXA									
LVOKFLXA									
MAYOFLXA									
MCINFLXA									
MLRSFLXA									
ORSPFLXA									
RAFRFLXA									
WALDFLXA									
WHSPFLXA									
WLBFLXA									

Investment Input

c/li	Concentrator Direct Cost									
	Distribution Direct Cost	Digital Terminal Direct Cost	Passive SAI Direct Cost	Concentrator Direct Cost	Feeder Poles Direct Cost	Feeder Aerial Cable Net Exp	Feeder Cu Aerial Cable Cap Cost	Feeder Fiber Aerial Cable Cap Cost	Feeder Bundled Cable Net Exp	Feeder Cu Bundled Cable Cap Cost
ALCHFLXA										
BORAFLEXA										
BRFRFLXA										
BRKRFLXA										
CITRFLXA										
CLHNFLXA										
CRCYFLXA										
DWPKFLXA										
FLRHFLXA										
FTWHFLXA										
HGSPFLXA										
HLRDFLXA										
HSNGFLXA										
INTRFLXA										
JNGSFLXA										
JSPRFLXA										
LKBTFLEXA										
LRVFLXA										
LVOKFLXA										
MAYOFLXA										
MCINFLXA										
MLRSFLXA										
ORSPFLXA										
RAFRFLXA										
WALDFLXA										
WHSPFLXA										
WLBRFLXA										

Investment Input

cli	Feeder Direct Cost						EO Switching Wire Cost			
	Feeder Fiber Cable Buried Cap Cost	Feeder U/G Cable Net Exp	Feeder Cu U/G Cable Cap Cost	Feeder Fiber U/G Cable Cap Cost	Feeder Conduit Direct Cost	Feeder Manhole Direct Cost	Feeder Direct Cost	EO Wire Center Direct Cost	EO Switching Direct Cost	EO MDP/Prot Direct Cost
ALCHFLXA										
BORAFLXA										
BRFRFLXA										
BRKRFLXA										
CITRFLXA										
CLHNFLXA										
CRCYFLXA										
DWPKFLXA										
FLRHFLXA										
FTWHFLXA										
HGSPFLXA										
HLRDFLXA										
HSNGFLXA										
INTRFLXA										
JNGSFLXA										
JSPRFLXA										
LKBTFLEXA										
LRVFLXA										
LVOKFLXA										
MAYOFLXA										
MCINFLXA										
MLRSFLXA										
ORSPFLXA										
RAFRFLXA										
WALDFLXA										
WHSPFLXA										
WLBFLXA										

Investment Input

cli	Signaling Direct Cost					Dedicated to...				
	EO Switching Direct Cost	STP Direct Cost	Links Direct Cost	SCP Direct Cost	SCP Wire Center Direct Cost	Signaling Direct Cost	Ded Xport U/C Direct Cost	Ded Xport Buried Direct Cost	Ded Xport Aerial Direct Cost	Ded Xport Poles Direct Cost
ALCHFLXA										
BORAFLXA										
BRFRFLXA										
BRKRFLXA										
CITRFLXA										
CLHNFLXA										
CRCYFLXA										
DWPKFLXA										
FLRHFLXA										
FTWHFLXA										
HGSPFLXA										
HIRDFLXA										
HSNGFLXA										
INTRFLXA										
JNGSFLXA										
JSPRFLXA										
LKBTFLEXA										
LRVLFLXA										
LVOKFLXA										
MAYOFLXA										
MCINFLXA										
MLRSFLXA										
ORSPFLXA										
RAFRFLXA										
WALDFLXA										
WHSPFLXA										
WLBFLXA										

Investment Input

cli	Export Direct Cost				Direct Transport Direct Cost					
	Ded Xport Conduit Direct Cost	Ded Xport Manholes Direct Cost	Ded Xport Xmission Direct Cost	Ded Xport Direct Cost	Direct Xport U/G Direct Cost	Direct Xport Buried Direct Cost	Direct Xport Aerial Direct Cost	Direct Xport Poles Direct Cost	Direct Xport Conduit Direct Cost	Direct Xport Manholes Direct Cost
ALCHFLXA										
BORAFSLXA										
BRFRFLXA										
BRKRFLXA										
CITRFLXA										
CLHNFLXA										
CRCYFLXA										
DWPKFLXA										
FLRHFLXA										
FTWHFLXA										
HGSPFLXA										
HLRDFSLXA										
HSNGFLXA										
INTRFLXA										
JNGSFLXA										
JSPRFLXA										
LKBTFLXA										
LRVFLXA										
LVOKFLXA										
MAYOFLXA										
MCINFLXA										
MLRSFLXA										
ORSPFLXA										
RAFRLXA										
WALDFSLXA										
WHSPFLXA										
WLBRLXA										

Investment Input

c/li	Common Xport Direct Cost									
	Direct Xport Xmission Direct Cost	Direct Transport Direct Cost	Common Xport U/G Direct Cost	Common Xport Buried Direct Cost	Comm Xport Aerial Direct Cost	Comm Xport Poles Direct Cost	Comm Xport Conduit Direct Cost	Comm Xport Manholes Direct Cost	Comm Xport Xmission Direct Cost	Common Xport Direct Cost
ALCHFLXA										
BORAFSLXA										
BRFRFLXA										
BRKRFLXA										
CITRFLXA										
CLHNFLXA										
CRCYFLXA										
DWPKFLXA										
FLRHFLXA										
FTWHFLXA										
HGSPFLXA										
HLRDFLXA										
HSNGFLXA										
INTRFLXA										
JNGSFLXA										
JSPRFLXA										
LKBTFLXA										
LRVFLXA										
LVOKFLXA										
MAYOFLXA										
MCINFLXA										
MLRSFLXA										
ORSPFLXA										
RAFREFLXA										
WALDFLXA										
WHSPFLXA										
WLBREFLXA										

Investment Input

cli	Tandem Switching Direct Cost			Operator Direct Cost					Public Telephone Direct Cost	
	Tandem Wire Center Direct Cost	Tandem Switching Direct Cost	Tandem Switching Direct Cost	OS Tandem Switching Direct Cost	OS Tandem Wire Center Direct Cost	OS Trunks Direct Cost	OS Position Direct Cost	Operator Wages		Operator Direct Cost
ALCHFLXA										
BORAFLXA										
BRFRFLXA										
BRKRFLXA										
CITRFLXA										
CLHNFLXA										
CRCYFLXA										
DWPKFLXA										
FLRHFLXA										
FTWHFLXA										
HGSPFLXA										
HLRDFLXA										
HSNGFLXA										
INTRFLXA										
JNGSFLXA										
JSPRFLXA										
LKBTFLXA										
LRVFLXA										
LVOKFLXA										
MAYOFLXA										
MCINFLXA										
MLRSFLXA										
ORSPFLXA										
RAFRFLXA										
WALDFLXA										
WHSPFLXA										
WLBFLXA										

Investment Input

c/li	Allocation Factors					General Supply		
	Total Investment (after sharing)	% Investment	% Total Lines	Total Direct Expense	% Direct Expense	Furniture Investment	Office Equipment Investment	Gen Purpose Computers Investment
ALCHFLXA								
BORAFIXA								
BRFRFLXA								
BRKRFLXA								
CITRFLXA								
CLHNFLXA								
CRCYFLXA								
DWPKFLXA								
FLRHFLXA								
FTWHFLXA								
HGSPFLXA								
HLRDFLXA								
HSNGFLXA								
INTRFLXA								
JNGSFLXA								
JSPRFLXA								
LKBTFLXA								
LRVFLXA								
LVOKFLXA								
MAYOFLXA								
MCINFLXA								
MLRSFLXA								
ORSPFLXA								
RAFRFLXA								
WALDFLXA								
WHSPFLXA								
WLBFLXA								

Investment Input

c/li	Assigned Investment				Capital Cost General Supp				
	Motor Vehicles Investment	Buildings Investment	Garage Work Eqpt Investment	Other Work Eqpt Investment	Furniture Cap Cost	Office Eqpt Cap Cost	Gen Purpose Computers Cap Cost	Motor Vehicles Cap Cost	Buildings Cap Cost
ALCHFLXA									
BORAFXA									
BRFRFLXA									
BRKRFLXA									
CITRFLXA									
CLHNFLXA									
CRCYFLXA									
DWPKFLXA									
FLRHFLXA									
FTWHFLXA									
HGSPFLXA									
HLRDFLXA									
HSNGFLXA									
INTRFLXA									
JNGSFLXA									
JSPRFLXA									
LKBTFXA									
LRVFLXA									
LVOKFLXA									
MAYOFLXA									
MCINFLXA									
MLRSFLXA									
ORSPFLXA									
RAFRLXA									
WALDFXA									
WHSPFLXA									
WLBRLXA									

Investment Input

cli	Cap			Expenses					
	Garage Work Eqpt Cap Cost	Other Work Eqpt Cap Cost	General Support Cap Cost	Network Operations Expense	Network Support Expense	Misc Expense	Operating Taxes	Total Support & Other Expense	Interoffice/ Switching NetOps
ALCHFLXA									
BORAFIXA									
BRFRFLXA									
BRKRFLXA									
CITRFLXA									
CLHNFLXA									
CRCYFLXA									
DWPKFLXA									
FLRHFLXA									
FTWHFLXA									
HGSPFLXA									
HLRDFLXA									
HSNGFLXA									
INTRFLXA									
JNGSFLXA									
JSPRFLXA									
LKBTFIXA									
LRVFLXA									
LVOKFLXA									
MAYOFLXA									
MCINFLXA									
MLRSFLXA									
ORSPFLXA									
RAFRFLXA									
WALDFLXA									
WHSPFLXA									
WLBFLXA									

Investment Input

cli	Interoffice/ Switching Direct Expense	Carrier-to- Carrier Customer Service	Inverse Carrier to-Carrier Expense Factor	Distribution Total Cost	NID Total Cost	Concentrator Total Cost	Feeder Total Cost	EO Switching Total Cost	Signaling Total Cost
ALCHFLXA									
BORAFLXA									
BRFRFLXA									
BRKRFLXA									
CITRFLXA									
CLHNFLXA									
CRCYFLXA									
DWPKFLXA									
FLRHFLXA									
FTWHFLXA									
HGSPFLXA									
HLRDFLXA									
HSNGFLXA									
INTRFLXA									
JNGSFLXA									
JSPRFLXA									
LKBTFLEXA									
LRVLFLXA									
LVOKFLXA									
MAYOFLXA									
MCINFLXA									
MLRSFLXA									
ORSPFLXA									
RAFRFLXA									
WALDFLXA									
WHSPFLXA									
WLBFLXA									

Investment Input

Cost Totals										
cli	Dedicated Transport Total Cost	Dedicated Transmission Total Cost	Direct Transport Total Cost	Direct Transmission Total Cost	Common Transport Total Cost	Common Transmission Total Cost	Trandem Total Cost	Operator Total Cost	Public Total Cost	Distribution Unit Cost
ALCHFLXA										
BORAFLEXA										
BRFRFLXA										
BRKRFLXA										
CITRFLXA										
CLHNFLXA										
CRCYFLXA										
DWPKFLXA										
FLRHFLXA										
FTWHFLXA										
HGSPFLXA										
HLRDFLXA										
HSNGFLXA										
INTRFLXA										
JNGSFLXA										
JSPRFLXA										
LKBTFLEXA										
LRVFLXA										
LVOKFLXA										
MAYOFLXA										
MCINFLXA										
MLRSFLXA										
ORSPFLXA										
RAFRFLXA										
WALDFLXA										
WHSPFLXA										
WLBFLXA										

Investment Input

cili	NID Unit Cost	Concentrator Unit Cost	Feeder Unit Cost	EO		EO		Signaling		Signaling		Dedicated Transport		Dedicated Transport	
				Switching Line Port Unit Cost	Switching Usage Unit Cost	STP Unit Cost	SCP Unit Cost	Signaling Links Unit Cost	Unit Cost per DS0/mo	Unit Cost per min					
ALCHFLXA															
BORAFFLXA															
BRFRFLXA															
BRKRFLXA															
CITRFLXA															
CLHNFLXA															
CRCYFLXA															
DWPKFLXA															
FLRHFLXA															
FTWHFLXA															
HGSPFLXA															
HLRDFLXA															
HSNGFLXA															
INTRFLXA															
JNGSFLXA															
JSPRFLXA															
LKBTFLXA															
LRVLFLXA															
LVOKFLXA															
MAYOFFLXA															
MCINFLXA															
MLRSFLXA															
ORSPFLXA															
RAFRFLXA															
WALDFLXA															
WHSPFLXA															
WLBFLXA															

UNE Unit Costs

Investment Input

cli	Dedicated Transmission Unit Cost per DS0/mo	Dedicated Transmission Unit Cost per min	Direct Transport Unit Cost per minute	Direct Transmisssion Unit Cost	Common Transport Unit Cost per minute per leg	Common Transmission Unit Cost per minute	Tandem Switching Unit Cost	Operator Total Cost/Line/Mo	Public Telephone Unit Cost	Loop
ALCHFLXA										
BORAFIXA										
BRFRFLXA										
BRKRFLXA										
CITRFLXA										
CLHNFLXA										
CRCYFLXA										
DWPKFLXA										
FLRHFLXA										
FTWHFLXA										
HGSPFLXA										
HLRDFLXA										
HSNGFLXA										
INTRFLXA										
JNGSFLXA										
JSPRFLXA										
LKBTFIXA										
LRVFLXA										
LVOKFLXA										
MAYOFLXA										
MCINFLXA										
MLRSFLXA										
ORSPFLXA										
RAFRFLXA										
WALDFLXA										
WHSPFLXA										
WLBFLXA										

Investment Input

USF Unit Costs

Line	Port	EO Usage	Signaling	Transport	Billing/Bill Inquires	Directory Listing	LNP (when available)	Total Monthly Cost per Line	Total Switched Lines	Total Households
cili										
ALCHFLXA										
BORAFFLXA										
BRFRFLXA										
BRKRFLXA										
CJTRFLXA										
CLHNFLXA										
CRCYFLXA										
DWPKFLXA										
FLRHFLXA										
FTWHFLXA										
HGSPFLXA										
HLRDFLXA										
HSNGFLXA										
INTRFLXA										
JNGSFLXA										
JSPRFLXA										
LKBTFLXA										
LRVFLXA										
LVOKFLXA										
MAYOFLXA										
MCINFLXA										
MILRSFLXA										
ORSPFLXA										
RAFRFLXA										
WALDFLXA										
WHSPFLXA										
WLBFLXA										

USF

% of Loop Assigned for USF: 100%
 % of Port Assigned for USF: 100%
 Bus/Res local DEM usage ratio: 110%

Entry of \$0.00 Indicates that Line Type is Not to be Supported

c/li	Monthly Support Benchmark:			\$31.00	\$0.00	\$51.00	\$0.00	\$0.00	Total annual support for specified line types
	Avg monthly cost per line	@ Residence usage per line	@ Business usage per line	Annual support for primary residence lines	Annual support for secondary residence lines	Annual support for single line business lines	Annual support for multiline business lines	Annual support for public lines	
ALCHFLXA									
BORAFIXA									
BRFRFLXA									
BRKRFLXA									
CITRFLXA									
CLHNFLXA									
CRCYFLXA									
DWPKFLXA									
FLRHFLXA									
FTWHFLXA									
HGSPFLXA									
HLRDFLXA									
HSNGFLXA									
INTRFLXA									
JNGSFLXA									
JSPRFLXA									
LKBTFLXA									
LRVLFLXA									
LVOKFLXA									
MAYOFLXA									
MCINFLXA									
MLRSFLXA									
ORSPFLXA									
RAFRFLXA									
WALDFLXA									
WHSPFLXA									
WLBFLXA									

Florida
Alltel Florida Inc
Bu

cli	@25% Federal allocation	@75% State allocation
ALCHFLXA		
BORAFIXA		
BRFRFLXA		
BRKRFLXA		
CITRFLXA		
CLHNFLXA		
CRCYFLXA		
DWPKFLXA		
FLRHFLXA		
FTWHFLXA		
HGSPFLXA		
HLRDFLXA		
HSNGFLXA		
INTRFLXA		
JNGSFLXA		
JSPRFLXA		
LKBTFLXA		
LRVLFLXA		
LVOKFLXA		
MAYOFLXA		
MCINFLXA		
MLRSFLXA		
ORSPFLXA		
RAFRFLXA		
WALDFLXA		
WHSPFLXA		
WLBRFLXA		

Line Type	Support Grand Totals
Primary residence lines	\$14,202,006
Secondary residence lines	\$0
Single line business lines	\$23,987
Multiline business lines	\$0
Public lines	\$0
All switched lines	\$14,225,993

HAI Model Release 5.0a - Expense Module
Wire Center Level Summary

cli total lines business lines residential lines special access lines public lines household s

Florida
Alltel Florida
Inc

copper feeder cable w/g copper feeder cable buried copper feeder cable aerial fiber feeder cable w/g fiber feeder cable buried fiber feeder cable aerial total feeder conduit

Summary

total feeder manholes	copper feeder u/g placement	fiber feeder u/g placement	fiber feeder buried placement	fiber feeder buried placement	feeder pole inv	distribution cable underground	distribution cable buried	distribution cable aerial	distribution conduit	distribution conduit placement	distribution buried placement
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Summary

distribution poles	calc copper feeder fill	calc distribution fill	calc "mainframe fill"	SAI inv	terminal inv	drop inv	NID inv	feeder distance	total distribution	DLC lines	end office switching

Summary

MDF/protect or Inv	end office wire center	land	local tandem switching	local tandem wire center	OS tandem switching	OS tandem wire center	OS trunks	operator position	common transport u/g	common transport buried	common transport aerial	common transport poles	common transport conduit
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Summary

common	common	direct	direct	direct	direct	direct	direct	dedicated	dedicated	dedicated	dedicated	dedicated
transport,	transmission	transport,	transport,	transport,	transport,	transport,	transport,	transport,	transport,	transport,	transport,	transport,
manholes,	terminal inv,	transport, u/g	buried	aerial	poles	conduit	manholes	terminal inv	u/g	buried	aerial	poles
												conduit

Summary

dedicated transport manholes	dedicated transmission terminal inv	prop local direct trunks	prop local tandem trunks	prop local intraLATA direct trunks	prop local intraLATA tandem trunks	prop access direct trunks	prop access tandem trunks	prop access operator trunks	SCP inv	SCP wire center inv	STP inv	signaling link inv	total public telephone inv	total residential annual DEMs

Summary

total business annual DEMs	Total Investment	Total DEMs	total trunks	Distribution Direct Cost	Distribution Cable Buried Direct Cost	Distribution Cable Aerial Direct Cost	Distribution Pole/Direct Cost	Distribution Conduit	Distribution Manhole	Distribution Direct Cost	Distribution NID Direct Cost

Summary

	Concentrator Direct Cost	
Distribution Buried		
Trenching		
Terminal Direct Cost	Distribution Direct Cost	
	Digital Terminal Direct Cost	
	Passive SAI Concentrator Direct Cost	
	Feeder Poles Direct Cost	
	Aerial Cable Net Exp	
	Aerial Cable Cap	
	Feeder Aerial Cable Cap	
	Fiber Aerial Cable Cap	
	Feeder Buried Cable Net Exp	
	Feeder Buried Cable Cap	
	Feeder Fiber Cable Cap	
	Feeder Fiber Cable Cap	
	Feeder Fiber Cable Cap	

Summary

Cost						EO Switching Direct Cost				Signal Direct		
Feeder U/G Cable Net Exp	Feeder CU U/G Cable Cap Cost	Feeder Fiber U/G Cable Cap Cost	Feeder Conduit Direct Cost	Feeder Manhole Direct Cost	Feeder Direct Cost	EO Wire Center Direct Cost	EO Switching Direct Cost	EO MDF/Prot Direct Cost	EO Switching Direct Cost	STP Direct Cost	Links Direct Cost	SCP Direct Cost

Summary

Cost		Dedicated/Transport/Direct/Cost																Direct			
SCP Wire Center Direct Cost		Ded Xport				Ded Xport				Ded Xport				Ded Xport				Ded Xport		Ded Xport	
		Aerial		Buried		Poles		Manholes		Direct		Direct		Direct		Direct		Direct			
		Direct Cost		Direct Cost		Direct Cost		Direct Cost		Direct Cost		Direct Cost		Direct Cost		Direct Cost		Direct Cost			
Cost		U/C Direct	Direct Cost	Buried	Direct Cost	Aerial	Direct Cost	Poles	Direct Cost	Manholes	Direct Cost	Ded Xport	Direct Cost	Ded Xport	Direct Cost	Ded Xport	Direct Cost	Ded Xport	Direct Cost		
		Cost		Direct Cost		Direct Cost		Direct Cost		Direct Cost		Direct Cost		Direct Cost		Direct Cost		Direct Cost			

Summary

Direct Xport Manholes		Common Xport U/G		Common Xport Aerial		Common Xport Poles		Common Xport Conduit		Common Xport Manhole Xmission		Common Xport Xmission		Common Xport Comm		Handem Switching		Handem Wire Center		Handem Switching		Handem Switching		OS	
Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost	Direct Cost

Summary

Operator Direct Cost		Allocation Factors	
OS Tandem Wire Center Direct Cost	OS Trunks OS Position Direct Cost	Operator Wages	Operator Direct Cost
		Public Telephone Direct Cost	Total Direct Expense
		Investment (and sharing)	Investment Expense
		Office Furniture Investment	Office Equipment Investment
		Computer Investment	Computer Investment

Summary

Support Assigned Investment		Capital Cost General Support										
Motor Vehicles Investment	Buildings Investment	Garage Work Eqpt Investment	Other Work Eqpt Investment	Furniture Cap Cost	Office Eqpt Cap Cost	Gen Purpose Computers Cap Cost	Motor Vehicles Cap Cost	Buildings Cap Cost	Garage Work Eqpt Cap Cost	Other Work Eqpt Cap Cost	General Support Cap Cost	Operations Expense

Summary

Network Support Expense	Misc Expense	Operating Taxes	Total Support & Other Expense	Interoffice/ Switching NetOps	Interoffice/ Switching Direct Expense	Camerillo/ Carrier Customer Service	Distribution Total Cost	NIP Total Cost	Conspirator Total Cost	Hacker/Dial Cost	EO Subsidies Total Cost

Summary

Cost Totals									
Signaling Total Cost	Dedicated Transport Total Cost	Dedicated Transmissio n Total Cost	Direct Transport Total Cost	Direct Transmissio n Total Cost	Common Transport Total Cost	Common Transmissi on Total Cost	Tandem Total Cost	Operator Total Cost	Public Total Cost

Exp Assignment

Use this sheet to vary the proportion of expenses assigned to loop-related network elements on the basis of lines and on the basis of direct expenses, respectively. Change only the % assigned "per line" -- the "per direct cost" will be calculated.

	Total Annual Amount assigned to loops	% to be assigned per line	% to be assigned per direct cost	Annual Amount to be assigned per line	Annual Amount to be assigned per direct cost
General Support - Loops					
Furniture - Capital Costs		0%	100%	\$ -	
Furniture - Expenses		0%	100%	\$ -	
Office Equipment - Capital Costs		0%	100%	\$ -	
Office Equipment - Expenses		0%	100%	\$ -	
General Purpose Computer - Capital Costs		0%	100%	\$ -	
General Purpose Computer - Expenses		0%	100%	\$ -	
Motor Vehicles - Capital Costs		0%	100%	\$ -	
Motor Vehicles - Expenses		0%	100%	\$ -	
Buildings - Capital Costs		0%	100%	\$ -	
Buildings - Expenses		0%	100%	\$ -	
Garage Work Eqpt. - Capital Costs		0%	100%	\$ -	
Garage Work Eqpt. - Expenses		0%	100%	\$ -	
Other Work Eqpt. - Capital Costs		0%	100%	\$ -	
Other Work Eqpt. - Expenses		0%	100%	\$ -	
Total General Support				\$ -	
Network Operations		0%	100%	\$ -	
Other Taxes		0%	100%	\$ -	
Variable Overhead		0%	100%	\$ -	
Totals				\$ -	

Exp Assignment

	<u>Totals</u>		
	Total Annual Amount	Amount Assigned to Loops	Amount Assigned to Other UNEs
<i>Direct Costs</i>			
Loop-related direct costs			
Non-Loop-related direct costs			
Total			
Loop Fraction			
Network Operations			
General Support - Totals			
Furniture - Capital Costs			
Furniture - Expenses			
Office Equipment - Capital Costs			
Office Equipment - Expenses			
General Purpose Computer - Capital Costs			
General Purpose Computer - Expenses			
Motor Vehicles - Capital Costs			
Motor Vehicles - Expenses			
Buildings - Capital Costs			
Buildings - Expenses			
Garage Work Eqpt. - Capital Costs			
Garage Work Eqpt. - Expenses			
Other Work Eqpt. - Capital Costs			
Other Work Eqpt. - Expenses			
Total General Support			
Network Operations			
Other Taxes Calculation			
Total Direct Costs			
Total Network Operations			
Total General Support			
Total			
Other Taxes			
Total Expenses and Other Taxes			
Variable Overhead Calculation			
Variable Overhead			
Total Cost with Variable Overhead			

UNE Expense Asssignment

Totals

NID

per line cost
per direct cost
total

Distribution

per line cost
per direct cost
total

Concentrator

per line cost
per direct cost
total

Feeder

per line cost
per direct cost
total



CCCFactor

DeprecLife	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
41																					
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CCCFactor

Depreciate Life	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
CCCFactor	0.15874	0.15770	0.15684	0.15611	0.15551	0.15500	0.15460	0.15428	0.15402	0.15382	0.15367	0.15356	0.15349	0.15346	0.15346	0.15348	0.15352	0.15358	0.15366	0.15375
NPV Factor	0.01762	0.01845	0.01930	0.02016	0.02101	0.02186	0.02271	0.02356	0.02441	0.02526	0.02611	0.02696	0.02781	0.02866	0.02951	0.03036	0.03121	0.03206	0.03291	0.03376
ROFAC	0.02716	0.02789	0.02861	0.02932	0.03003	0.03074	0.03145	0.03216	0.03287	0.03358	0.03429	0.03500	0.03571	0.03642	0.03713	0.03784	0.03855	0.03926	0.04000	0.04074
Tax/Factor	0.03896	0.03936	0.03975	0.04013	0.04050	0.04086	0.04122	0.04157	0.04191	0.04224	0.04257	0.04288	0.04319	0.04349	0.04379	0.04407	0.04435	0.04462	0.04489	0.04514
COF	1.29602	1.30099	1.31264	1.31989	1.32676	1.33329	1.33940	1.34519	1.35100	1.35683	1.36266	1.36850	1.37433	1.37950	1.38553	1.39105	1.39737	1.40405	1.41098	1.41804
COF	1.43682	1.44573	1.45421	1.46227	1.46989	1.47712	1.48399	1.49057	1.49674	1.50265	1.50830	1.51368	1.51877	1.52365	1.52832	1.53277	1.53703	1.54111	1.54502	1.54876
NPV Factor	0.16686	0.16538	0.16486	0.16410	0.16347	0.16294	0.16252	0.16217	0.16190	0.16169	0.16153	0.16142	0.16135	0.16132	0.16131	0.16133	0.16138	0.16145	0.16153	0.16162
Pmt-Factor	0.15061	0.14963	0.14881	0.14812	0.14755	0.14708	0.14669	0.14638	0.14613	0.14594	0.14580	0.14570	0.14564	0.14561	0.14561	0.14563	0.14567	0.14572	0.14580	0.14589
Pmt-Factor	0.20928	0.20780	0.20699	0.20633	0.20580	0.20540	0.20508	0.20482	0.20460	0.20441	0.20428	0.20420	0.20416	0.20413	0.20411	0.20410	0.20410	0.20410	0.20410	0.20410
Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Year	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
Year	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Year	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40

CCCFactor

DeprecLife	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40
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CCC Factor

Depreciate	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60						
41	0.02602																									
42		0.02074																								
43		0.02579	0.03291																							
44			0.02005	0.03504																						
45			0.02519	0.03117	0.03883																					
46				0.02462	0.03145	0.03799																				
47					0.02776	0.03438	0.04072																			
48					0.02407	0.03077	0.03718	0.04333																		
49						0.03011	0.0365	0.04279	0.04879																	
50						0.02716	0.03356	0.03987	0.04614	0.05156																
51						0.02354	0.03095	0.03727	0.04351	0.04978	0.05381															
52							0.02658	0.03290	0.03922	0.04551	0.05178	0.05597														
53								0.02909	0.03541	0.04172	0.04803	0.05427	0.05845													
54									0.02888	0.03519	0.04150	0.04781	0.05411	0.05829												
55									0.02549	0.03180	0.03811	0.04442	0.05072	0.05697	0.06106											
56									0.02210	0.02841	0.03472	0.04103	0.04733	0.05363	0.05988	0.06384										
57										0.02408	0.03039	0.03670	0.04301	0.04931	0.05561	0.06186	0.06582									
58											0.02449	0.03079	0.03710	0.04340	0.04970	0.05595	0.06190	0.06586								
59												0.02402	0.03032	0.03662	0.04292	0.04917	0.05542	0.06137	0.06532							
60													0.02383	0.03013	0.03643	0.04273	0.04903	0.05498	0.06093	0.06488						
61														0.02366	0.02996	0.03626	0.04256	0.04851	0.05446	0.05841						
62															0.02349	0.02979	0.03609	0.04204	0.04799	0.05394						
63																0.02332	0.02962	0.03557	0.04152	0.04747						
64																	0.02315	0.02945	0.03540	0.04135						
65																		0.02298	0.02890	0.03485						
66																			0.02281	0.02874						
67																				0.02264						
68																					0.02247					
69																						0.02230				
70																							0.02213			
71																								0.02196		
72																									0.02179	
73																										0.02162
74																										0.02145
75																										0.02128
76																										0.02111
77																										0.02094
78																										0.02077
79																										0.02060
80																										0.02043
81																										0.02026

Inputs

		User Inputs	Calculations
State		Florida	
Company		Alltel Florida Inc	
Cost of Capital Inputs			
Cost of Debt			
Debt fraction			
Cost of Equity			
Equity fraction			
Weighted equity fraction			
Overall Cost of Capital			
Traffic Inputs			
local DEMs, thousands		873,192	
intra-state DEMs, thousands		186,443	
inter-state DEMs, thousands		184,077	1,243,712 total DEMs, thousands
Local call completion fraction		70.00%	
Total local calls attempted		197,857	138,500 Total local calls completed
Total intra-ATA calls completed		11,845	
Total inter-ATA calls completed - intra-state		11,920	
Total inter-ATA calls completed - interstate		25,344	
local DEM fraction		68.21%	
local interoffice traffic fraction		48.69%	
D link investment, per link	\$	4,623	
Bus/Res DEMs ratio (local, state, interstate)		110%	200%
per-line entrance facility investment		4.0	
local direct-routed fraction		98.00%	
tandem-routed intra-ATA fraction		20.00%	
tandem-routed access fraction		20.00%	
maximum trunk usage, CCS		27.5	
ISUP msgs per i/o call attempt		6	
avg ISUP msg length, octets		25	
TCAP msgs per transaction		2	
TCAP msg length, octets		100	
fraction of calls requiring TCAP		10.00%	
trunk port investment, per port	\$	100	
Switch line circuit offset per D.L.C. line	\$	5.00	
Total signaling links		53	
Average trunk utilization		30.00%	

Cost Parameters

tax rate	
corporate overhead factor	
other taxes factor	
billing/bill inquiry per line per month	\$ 1.22
directory listing per line per month	\$ -
forward-looking network operations factor	50.00%
alternative CO switching factor	2.69%
alternative circuit equipment factor	1.53%
EO non-port fraction	70.00%
per-line monthly LNP cost	\$ 0.25
Carrier-carrier customer service, per line per year	\$ 1.69
NID expense per line per year	\$ 1.00
DS-0/DS-1 crossover	12.4
DS-1/DS-3 crossover	9.9
Average lines per business location	4.00

Structure fraction assigned to telephone

density range	dist aerial	dist buried	dist underground	fdr aerial
0-5	50%	33%	100%	50%
5-100	33%	33%	50%	33%
100-200	25%	33%	50%	25%
200-650	25%	33%	50%	25%
650-850	25%	33%	40%	25%
850-2550	25%	33%	33%	25%
2550-5000	25%	33%	33%	25%
5000-10000	25%	33%	33%	25%
>10000	25%	33%	33%	25%

Usage Calculations

Intrastate Toll DEMs	186,443,000
Interstate Toll DEMs	184,077,000
trunk port usage	1,347,222,169
trk-min/mo	10,044
interLATA dtd. trunks	2,457
Common Transport MOU	
Local	8,260,371 w/o OS usage
Intrastate Toll	37,288,600

Inputs

Interstate Toll	36,815,400	
	82,364,371	
Intrastate IntraLATA Calls	11,845	49.84% SOCCC message counts
Intrastate InterLATA Calls	11,920	50.16%
	23,765	

Calculation of EO Usage

Local DEMs, incl OS	873,192,000	70.2% of total DEMs
Intraoffice Local DEMs	448,062,975	
Intraoffice Local Actual Min	224,031,487	
Interoffice Local Actual Min	425,129,025	per end
Intrastate Toll Actual Min	186,443,000	
Interstate Toll Actual Min	<u>184,077,000</u>	
	1,019,680,513	
		Dedicated Transport MOU
		Local, w/o OS 202,379,094
		IntraLATA Toll 37,170,921
		InterLATA Toll <u>296,178,158</u>
		535,728,174
Tandem Switch MOU		Dedicated Trunk-SW 4,445
Local	4,130,186	
IntraLATA Toll	9,292,730	
InterLATA Toll	<u>55,518,540</u>	
	68,941,455	

Inputs

September 12, 2005

3:36 PM

Account	USOA Category	Economic Lives	Net Salvage Percent	Adjusted Projection Lives (years)	Investment
2112	Motor Vehicles				
2115	Garage Work Equipment				
2116	Other Work Equipment				
2121	Buildings				
2122	Furniture				
2123.1	Office Support Equipment				
2123.2	Company Comm Equipment				
2124	Computers				
2212	Digital Switching				
2220	Operator Systems				
2232.2	Digital Circuit Equipment				
2351	Public Telephone				
	NID, SAI				<i>Calculated</i>
2411	Poles				
2421-m	Aerial Cable - Metallic				\$ 12,117,831 \$ 739,239
2421-nm	Aerial Cable - Non-Metallic				\$ 12,300,538 \$ 811,711
2422-m	Underground - Metallic				\$ 211,736 \$ 12,704
2422-nm	Underground - Non-Metallic				\$ 5,905,768 \$ 348,423
2423-m	Buried - Metallic				\$ 36,822,082 \$ 2,125,115
2423-nm	Buried - Non-Metallic				\$ 25,854,839 \$ 1,344,251
2426-m	Intrabuilding - Metallic				
2426-nm	Intrabuilding - Non-Metallic				
2441	Conduit Systems				
Average Metallic Cable (calculated)				17.08	\$ 49,151,648 \$ 2,877,058
Average Metallic Cable (calculated)				17.59	\$ 44,061,146 \$ 2,504,384

Inputs

fdr underground	fdr buried
50%	40%
50%	40%
40%	40%
33%	40%
33%	40%
33%	40%
33%	40%
33%	40%
33%	40%
33%	40%

Inputs

ARMIS Inputs

TRANSFORMED REGULATED		1995 COMPANY NAME:	ICO		
		OTHER TAXES & UNCOLLECTIBLES CALCULATION	EXPENSES	NET REVENUES	
		7230 OPERATING STATE & LOCAL INCOME TAX-NET	482		
		7240 OPERATING OTHER TAXES	2,038		
		5300 UNCOLLECTIBLE REVENUES			772
		530 NET REVENUES			48,919
		GROSS REVENUES (5300 + 530)			49,691
		UNCLL/GROSS REV			0.015532
		(5300-4040(p.r))/(5081+52 UNCLL RETAIL RATE			2.27%
		(4040(p))/(5082..5084) UNCLL WHOLESALE RATE			0.43%
EXP	INV	PLANT SPECIFIC OPERATIONS EXPENSES	A. EXPENSES	B. INVESTMENTS	C. EXP/INV (A/B)
		TPIS GENERAL SUPPORT			
		2111 LAND		667	0.000000
		2121 BUILDINGS		9,708	0
6121		TOTAL LAND & BUILDINGS	1,071	10,375	0.103180
6112	2112	2112 MOTOR VEHICLES	58	1,680	0.03475
6113	2113	2113 AIRCRAFT	23	74	0.31246
6114	2114	2114 SPECIAL PURPOSE VEHICLES	0	1	0.01425
6115	2115	2115 GARAGE WORK EQUIPMENT	2	48	0.03533
6116	2116	2116 OTHER WORK EQUIPMENT	15	1,309	0.01131
6122	2122	2122 FURNITURE	78	639	0.12243
6123	2123	2123 OFFICE EQUIPMENT	166	1,633	0.10150
6124	2124	2124 GENERAL PRUPOSE COMPUTERS	1,603	2,512	0.63809
6120	2110	2110 TOTAL LAND & SUPPORT ASSETS	2,917	18,272	0.15965
		TPIS - CENTRAL OFFICE SWITCHING			
6211	2211	2211 ANALOG ELECT SWITCH	48	1,066	0.045322
6212	2212	2212 DIGITAL ELECTRONIC SWITCHING	1,818	31,953	0.056899
6220	2220	2220 OPERATOR SYSTEMS	33	485	0.067518
6210	2210	2210221022102210 CENTRAL OFFICE SWITCH	1,908	33,516	0.056941
		TPIS - CENTRAL OFFICE TRANSMISSION			
6232	2232	2232 CIRCUIT EQUIPMENT	358	22,014	0.016263483
6230	2230	2230 TRANSMISSION	383	23,025	0.01663194
		TPIS - INFORMATION ORIG/TERM			
6311	2311	2311 STATION APPARATUS	6	15	0.382353
	2321	2321 CUSTOMER PREMISES WIRING	0	0	#DIV/0!
6341	2341	2341 LARGE PRIVATE BRANCH EXCHANGE	0	0	4.500000
6351	2351	2351 PUBLIC TEL TERMINAL EQUIPMENT	131	699	0.188118
6362	2362	2362 OTHER TERMINAL EQUIPMENT	212	1,200	0.176350
6310	2310	2310 TOTAL INFORMATION ORIG/TERM	349	1,914	0.182378

ARMIS Inputs

		TPIS - CABLE & WIRE FACILITIES				
6411	2411	2411	POLES	157	3,796	0.041273
6421	2421	2421	AERIAL CABLE	1,125	17,890	0.062887
6422	2422	2422	UNDERGROUND CABLE	223	11,393	0.019603
6423	2423	2423	BURIED CABLE	1,231	31,657	0.038878
6441	2441	2441	CONDUIT SYSTEMS	24	6,461	0.003679
6410	2410	2410	TOTAL CABLE & WIRE FACILITIES	2,795	71,952	0.038842
	240	240	TOTAL TPIS(BEFORE AMORTIZABLE ASSETS) (2110+2210+2220+2230+2310+2410)	5,554	149,783	0.037083
		PLANT NON-SPECIFIC OPERATIONS EXPENSES		A. EXPENSES	B. TPIS INVESTMENT	C. EXP/INV (A/B)
6512	240	6512	PROVISIONING EXPENSES	45	149,783	0.000300
6531	240	6531	POWER EXPENSES	243	149,783	0.001623
6532	240	6532	NETWORK ADMINISTRATION	614	149,783	0.004102
6533	240	6533	TESTING	637	149,783	0.004252
6534	240	6534	PLANT OPERATIONS ADMINISTRATION	957	149,783	0.006391
6535	240	6535	ENGINEERING	505	149,783	0.003373
6540	240	6540	ACCESS EXPENSE	835	149,783	0.005573799
6530	240	6530	TOTAL NETWORK OPERATIONS EXPENSES	2,957	149,783	0.019740601
6561	240	6561	DEPRECIATION -TPIS	10,436	149,783	0.0696775250
			DEPRECIATION -TPIS	10,436	149,783	0.0696775250
		NETWORK SUPPORT FACTOR CALCULATION		A. EXPENSES	B. CABLE & WIRE INV	C. EXP/INV (A/B)
6112		2112	MOTOR VEHICLES	58		
6113		2113	AIRCRAFT	23		
6114		2114	SPECIAL PURPOSE VEHICLES	0		
6115		2115	GARAGE WORK EQUIPMENT	2		
6116		2116	OTHER WORK EQUIPMENT	15		
	2410		TOTAL NETWORK SUPPORT (EXCL 2113)	75	71,952	0.001041087
		CUSTOMER OPERATIONS EXPENSES		A. EXPENSES	B. NET REVENUES	C. EXP/NET REV (A/B)
6611		6611	PRODUCT MANAGEMENT	427		CALC
6612		6612	SALES	785		CALC
6613		6613	PRODUCT ADVERTISING	283		CALC
6610		6610	TOTAL MARKETING EXPENSES	1,495		CALC
6621		6621	CALL COMPLETION SERVICE	336		CALC
6622		6622	NUMBER SERVICES	816		CALC
6623		6623	CUSTOMER SERVICES	2,686		CALC
6620		6620	TOTAL SERVICES EXPENSES	3,839		CALC
		700	TOTAL CUSTOMER OPERATIONS EXPENSE (6610 + 6620)	5,334		CALC
		CORPORATE OPERATIONS EXPENSES		A. EXPENSES	B. REVENUES	C. EXP/REV (A/B)

ARMIS Inputs

6711	6711 EXECUTIVE	202	CALC
6712	6712 PLANNING	99	CALC
6710	6710 TOTAL EXECUTIVE & PLANNING	301	CALC
6721	6721 ACCOUNTING & FINANCE	608	CALC
6722	6722 EXTERNAL RELATIONS	368	CALC
6723	6723 HUMAN RESOURCES	438	CALC
6724	6724 INFORMATION MANAGEMENT	1,676	CALC
6725	6725 LEGAL	140	CALC
6726	6726 PROCUREMENT	77	CALC
6727	6727 RESEARCH & DEVELOPMENT	98	CALC
6728	6728 OTHER GENERAL & ADMINISTRATIVE	1,421	CALC
6720	6720 TOTAL GENERAL & ADMINISTRATIVE	4,827	CALC
	710 TOTAL CORPORATE OPERATIONS EXPENSE (6710 + 6720 + 6790)	6,347	CALC
	720 TOTAL OPERATING EXPENSES		CALC
	DEM - LOCAL	873,193	
	DEM - INTRASTATE	186,444	
	DEM - INTERSTATE	184,077	
	MESSAGES - INTRALATA	11,846	
	MESSAGES - INTERLATA - interstate	25,345	
	MESSAGES - INTERLATA - intrastate	11920.95193	
4308 (EC)	LOCAL CALL ATTEMPTS	197,857	
	LINES - BUSINESS	19,212	
	RESIDENTIAL	52,068	
	PUBLIC	602	
	SPECIAL	4,764	
	TOTAL	76,744	
	5081 END USER		3,256
	5082 SWITCHED ACCESS		7,290
	5083 SPECIAL ACCESS		1,342
	TOTAL INTER ACCESS		11,888
	5084 END USER		
	5084 SWITCHED ACCESS		
	5084 SPECIAL ACCESS		
	STATE ACCESS		6,124
	TOTAL ACCESS REVENUES		18,012
	LD MESSAGE REVENUE		
	5100 INTERSTATE MESSAGE		
	5100 INTRASTATE MESSAGE		

ARMIS Inputs

5100 INTERSTATE CALLING PLAN	
5100 INTRASTATE CALLING PLAN	
LD MSG REV (CLASS A)	5,155
UNIDIRECTIONAL LD	
5110 INTERSTATE	
INTRASTATE	
TOTAL	188
5120 LD PRIVATE NETWORK	427
OTHER LD	
5160 INTERSTATE	
INTRASTATE	
TOTAL	67
TOTAL LD NETWORK REVENUE	
INTERSTATE	
INTRASTATE	
TOTAL	5,838
BASIC LOCAL SERVICE	
5001 BASIC AREA	15,852
5002 OPTIONAL EXTEND AREA	486
5003 CELLAR MOBIL	374
5004 OTHER MOBIL SVC	30
TOTAL BASIC SVC	16,743
PUBLIC TELEPHONE REVENUE	
5010 LOCAL PUBLIC MSG	
UNIVERSAL	
PB EXCHANGE IX CARRIER	
CC COINLESS	
PUBLIC EXH	
SEMI-PUBLIC	
OTHER PUBLIC PHONE REV	
TOTAL PUBLIC PHONE REVENUE	465
5040 LOCAL PRIVATE LINE	552
CUSTOMER PREMISE	
5050 STATION APP	
CUSTOMER PREMISE WIRING	

ARMIS Inputs

	TOTAL CUSTOMER PREMISES				40
	OTHER LOCAL EXCHANGE				
5060	CO FEATURES				
	INFO TRANSPORT				
	DIRECTORY ASSIST				
	INTERCEPT SRVC				
	OTHER LOC EXCH				
	TOTAL OTHER			3.899	
	TOTAL LOCAL NETWORK SRVC REVENUE				
	INTERSTATE				
	INTRASTATE			21699.08624	
	TOTAL REVENUE			45549.3964	
CAPITAL STRUCTURE PARAMETERS					
	DEBT/EQUITY RATIO	DEBT/EQUITY RATIO	DEBT/EQUITY RATIO	DEBT/EQUITY RATIO	DEBT/EQUITY RATIO
	COST OF DEBT				
	COST OF EQUITY				
		BALANCE SHEET	ACCRUEL		DEPR LIFE
		43-02,B-1	43-02,B-5		(ASSUMING
		AVG=(ab+af)/2	(col 2C)		STRAIGHT LIFE)
		A	B		C = (A/C)
		-	-		-
	ECONOMIC LIFE				
(2422.21.22.23.41)	FEEDER				
(2422.21.22.23.41)	DISTRIBUTION				
2121	BUILDINGS				
2232	DLC ELECTRONIC EQUIPMENT				
2212	EO SWITCHING				
2212	TANDEM SWITCHING				
2220	OS POSITIONS				
2220	OS TANDEM				
2232	TRANSMISSION SYSTEMS				
2351	PUBLIC TELEPHONE EQUIPMENT				
2122.2124	FURNITURE + GP COMPUTERS				
DATA SOURCEDATA SOURCEDATA SOURCEDATA SOURCE		sum checksum	checksum	checksum	checksum checksum check
ARMIS 4303	Jan 1996 to Dec 1996		28215		495
ARMIS 4304	GEORGIA		9007		9010
ARMIS 4308		0 (EJ)		(EJ)	
DEM			0		
=	=	=	=	=	=
UNCOLL RATE:	BA Lcl Svc	4303,Ln 520			21699.61457
	LD Ntwk Svs Rev	4303,Ln 525			5884.242756
	End User	4303,Ln 5081			3256.256704

ARMIS Inputs

	Sw Acc	4303,Ln 5082	7290.465656
	Spcl Acc	4303,Ln 5083	1341.628906
	St Acc	4303,Ln 5084	6123.865637
	Uncoll Rev	4303,Ln 5300	771.7728115
	Tot Acc	4304,Ln4040 (P)	63.97185331
	B&C	4304,Ln4040 (Q)	6.283126222
	IX	4304,Ln4040 (R)	0.227130693
	Ln4040 (P+Q+R)	Calc (P+Q+R)	70.48211022
	Uncoll -Acc	5300-(4040p..r)	1a
	End User+ Revs	5081+520+525	1b
	Uncoll Retail Rate	1c=(a/b)	0.022739563
	Uncoll Wholesale rate	2a	0.004335323

96 Actuals

Actuals for 1996 (\$000s)

	Investments	Expenses	Calculated Factor	
Plant-Specific Operations Expenses				
TPIS - General Support				
2111 Land	\$ 667	\$ -	-	
2112 Motor Vehicles	\$ 1,680	\$ 58	0.0348	
2113 Aircraft	\$ 74	\$ 23	0.3125	
2114 Special Purpose Vehicles	\$ 1	\$ 0	0.0142	
2115 Garage Work Equipment	\$ 48	\$ 2	0.0353	
2116 Other Work Equipment	\$ 1,309	\$ 15	0.0113	
2121 Buildings	\$ 9,708	\$ 1,071	0.1103	Land & Bldg Exp Applied to Bldgs
2122 Furniture	\$ 639	\$ 78	0.1224	
2123 Office Equipment	\$ 1,633	\$ 166	0.1015	
2124 General Purpose Computers	\$ 2,512	\$ 1,603	0.6381	
2110 Total Land & Support Assets	\$ 18,272	\$ 3,015	0.1650	
TPIS - Central Office Switching				
2211 Analog Electronic Switching	\$ 1,066	\$ 48	0.0453	
2212 Digital Electronic Switching	\$ 31,953	\$ 1,818	0.0569	2.69% NET CO Switch Factor
2210 Total Central Office Switching	\$ 33,020	\$ 1,866	0.0565	
2220 Operator Systems	\$ 485	\$ 33	0.0675	
TPIS - Central Office Transmission				
2231 Satellite & Earth Station Facilities				
2231 Other Radio Facilities				
2231 Radio Systems				
2232 Circuit Equipment	\$ 22,014	\$ 358	0.0163	1.53% alternative factor
2230 Total Central Office Transmission	\$ 22,014	\$ 358	0.0163	
TPIS - Information Orig/Term				
2311 Station Apparatus	\$ 15	\$ 6	0.3824	
2321 Customer Premises Wiring	\$ -	\$ -	0.0000	
2341 Large Private Branch Exchange	\$ 0	\$ 0	4.5000	
2351 Public Telephone Terminal Equipment	\$ 699	\$ 131	0.1881	
2362 Other Terminal Equipment	\$ 1,200	\$ 212	0.1763	
2310 Total Information Orig/Term	\$ 1,914	\$ 349	0.1824	
TPIS - Cable & Wire Facilities				
2411 Poles	\$ 3,796	\$ 157	0.0413	
2421 Aerial Cable	\$ 17,890	\$ 1,125	0.0629	
2422 Underground Cable	\$ 11,393	\$ 223	0.0196	
2423 Buried Cable	\$ 31,657	\$ 1,231	0.0389	
2424 Submarine Cable			0.0000	
2425 Deep Sea Cable			0.0000	
2426 Intra-building Network Cable			0.0000	
2431 Aerial Wire			0.0000	
2441 Conduit Systems	\$ 6,461	\$ 24	0.0037	
2410 Total Cable & Wire Facilities	\$ 71,198	\$ 2,760	0.0388	

96 Actuals

240 Total TPIS (before amortizable assets) \$ 128,631 \$ 8,381 0.0652

Plant Non-Specific Operations Expenses

	Expenses	Investment	Factor
6512 Provisioning Expenses	\$ 45	\$ 128,631	0.0003
6531 Power Expenses	\$ 243	\$ 128,631	0.0019
6532 Network Administration	\$ 614	\$ 128,631	0.0048
6533 Testing	\$ 637	\$ 128,631	0.0050
6534 Plant Operations Administration	\$ 957	\$ 128,631	0.0074
6535 Engineering	\$ 505	\$ 128,631	0.0039
6540 Access Expense			
6530 Total Network Operations Expenses (Including Provisioning Expenses)	\$ 3,002	\$ 128,631	0.0233

8.10% all
20.47% switching, interoffice
21.22% all
31.89% all
16.83% all

per line network operations (=total ARMIS 6530/total lines)
total lines (from net. invest. inputs) 76,744
annual net ops per line \$ 39.11

Network Support Factor Calculation

	Expenses	Cable & Wire Inv	Factor
2112 Motor Vehicles	\$ 58		
2113 Aircraft	\$ 23		
2114 Special Purpose Vehicles	\$ 0		
2115 Garage Work Equipment	\$ 2		
2116 Other Work Equipment	\$ 15		
Aircraft & Special Purpose Vehicles	\$ 75	\$ 71,198	0.0011

Customer Operations Expenses

	Expenses	Net Revenues	Factor
6611 Product Management *	\$ 427	\$ 0.4638 \$ 25,671	0.01664
6612 Sales *	\$ 785	\$ 0.8522 \$ 25,671	0.03057
6613 Product Advertising	\$ 283	\$ 25,671	0.01104
6610 Total Marketing Expenses	\$ 1,495		0.05824
6621 Call Completion Service	\$ 336	\$ 25,671	0.01310
6622 Number Services	\$ 816	\$ 0.8863 \$ 25,671	0.03179
6623 Customer Services	\$ 2,686	\$ 2.9168 \$ 25,671	0.10464
6620 Total Services Expenses	\$ 3,839	\$ 4.23	0.14954
Billing/bill inquiry (per line/month)	\$ 1.22		
Service order processing fraction of 6623	-		
Directory listing (per line/month)	\$ -		
700 Total Customer Operations Expenses	\$ 5,334	\$ 25,671	0.20778

24.42%

Corporate Operations Expenses

	Expenses	Revenues	Factor
6711 Executive	\$ 202	\$ 25,671	0.007873
6712 Planning	\$ 99	\$ 25,671	0.003852
6710 Total Executive & Planning	\$ 301	\$ 25,671	0.011725
6721 Accounting & Finance	\$ 608	\$ 25,671	0.023687

96 Actuals

6722 External Relations	\$	368	\$	25,671	0.014352
6723 Human Resources	\$	438	\$	25,671	0.017052
6724 Information Management	\$	1,676	\$	25,671	0.065281
6725 Legal	\$	140	\$	25,671	0.005470
6726 Procurement	\$	77	\$	25,671	0.003018
6727 Research & Development	\$	98	\$	25,671	0.003803
6728 Other General & Administrative	\$	1,421	\$	25,671	0.055362
6720 Total General & Administrative	\$	4,827	\$	25,671	0.188024

710 Total Corporate Operations Expense \$ 5,128 \$ 25,671 23.47%

720 Total Operating Expenses \$ 21,845
 note: does not include dep/amort
 47.89% Total Operations General Support Allocator
 0.455545869 "Office Worker" General Support Allocator

Misc Expenses Calculation

	2122 Furniture	2123 Ofc Eqpt	2124 GP Compr	2112 Motor Vehicles	2121 Buildings	2115 Grp Wk Eq	2116 Other Wk Eq
Investment	\$ 639	\$ 1,633	\$ 2,512	\$ 1,680	\$ 4,854	\$ 48	\$ 1,309
Investment/TPIS	0.00497	0.01270	0.01953	0.01306	0.03774	0.00037	0.01018
Expense	\$ 78	\$ 166	\$ 1,603	\$ 58	\$ 535	\$ 2	\$ 15
Expense Factor	0.12243	0.10150	0.63809	0.03475	0.11027	0.03533	0.01131
Model TPIS	\$ 227,791	\$ 227,791	\$ 227,791	\$ 227,791	# \$ 227,791	\$ 227,791	\$ 227,791
Calculated Investment	\$ 1,132	\$ 2,892	\$ 4,448	\$ 2,975	\$ 8,596	\$ 85	\$ 2,318
Calculated Expense	\$ 139	\$ 294	\$ 2,838	\$ 103	\$ 948	\$ 3	\$ 26
Subtotal (\$s)	\$ 1,921,518						
Total Misc Expense	\$ 1,921,518						

Other Taxes & Uncollectibles Calculation

	Expenses	Net Revenues	Factor
7230 Operating State & Local Income Tax	\$ 482	\$ (2,481)	0.0000
7240 Operating Other Taxes	\$ 2,038	\$ (2,481)	
5300 Uncollectible Revenues	\$ 772	\$ 25,671	0.0301
retail			0.0227
wholesale			0.0043

Ratio of Net Plant to TPIS

TPIS	\$ 128,631
Net Plant	\$ 128,631
Ratio	100.00%
Model Investment	\$ 184,627
Model % of Net Plant	144%
Model % of TPIS	144%

Actual Revenue

Actual 1996 Revenue

		% of total
Interstate Access		
5081 End User	\$ 3,256	8.26%
5082 Switched Access	\$ 7,290	18.49%
5083 Special Access	\$ 1,342	3.40%
Total Inter Access	<u>\$ 11,888</u>	30.15%
State Access Revenue		
5084 End User	\$ -	0.00%
5084 Switched Access	\$ -	0.00%
5084 Special Access	\$ -	0.00%
Total State Access	\$ -	0.00%
Total Access Revenue	<u>\$ 11,888</u>	30.15%
Long Distance Network Revenue		
5100 Interstate Message	\$ -	0.00%
5100 Intrastate Message	\$ -	0.00%
5100 Interstate Calling Plan	\$ -	0.00%
5100 Intrastate Calling Plan	\$ -	0.00%
Total LD Msg Revenue	<u>\$ 5,155</u>	13.08%
Unidirectional LD Revenue		
5110 Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total	<u>\$ 188</u>	0.48%
LD Private Network Revenue		
5120 Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total	<u>\$ 427</u>	1.08%
Other Long Distance Revenue		
5160 Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total	<u>\$ 67</u>	0.17%
Total Long Distance Network Rev		
Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total	<u>\$ 5,838</u>	14.81%

Actual Revenue

Basic Local Service		
5001 Basic Area	\$ 15,852	40.21%
5002 Optional Extended Area	\$ 486	1.23%
5003 Cellular Mobile	\$ 374	0.95%
5004 Other Mobile Svcs	\$ 30	0.08%
Total Basic Local Service	\$ 16,743	42.47%
Public Telephone Revenue		
5010 Local Public Msgs	\$ -	0.00%
Universal Public Phone	\$ -	0.00%
Public Exchange - IX Carrier	\$ -	0.00%
Credit Card Coinless	\$ -	0.00%
Public Exchange - CPE	\$ -	0.00%
Semi-Public Msgs	\$ -	0.00%
Other Public Phone Revenue	\$ -	0.00%
Total Public Phone Revenue	\$ 465	1.18%
Local Private Line Revenue		
5040 Interstate	\$ -	0.00%
Intrastate	\$ -	0.00%
Total Private Line	\$ 552	1.40%
Customer Premises Revenue		
5050 Station Apparatus	\$ -	0.00%
Customer Premises Wiring	\$ -	0.00%
Total Customer Premises	\$ 40	0.10%
Other Local Exchange Revenue		
5060 Central Office Features	\$ -	0.00%
Information Transport	\$ -	0.00%
Directory Assistance	\$ -	0.00%
Intercept Services	\$ -	0.00%
Other Loc Exchg	\$ -	0.00%
Total Other	\$ 3,899	9.89%
Total Local Network Service Revenue		
Interstate	\$ -	0.00%
Intrastate	\$ 21,699	55.04%
Total Revenue	\$ 39,426	100.00%

HAI Model Release 5.0a

Expense Module Release 5.0a

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**Users making modifications to non-user adjustable inputs of the HAI
Model may not represent generated calculations as those of the HAI
Model.**

Scenario Inputs

NOTE: This sheet displays all user adjustable inputs which vary from HM 5.0a default settings

Workfile Name: C:\HM50a\WORKFILES\HMKFL2103363.XLS
 Distribution Module Name: C:\HM50a\MODULES\R50a_distribution.xls
 Feeder Module Name: C:\HM50a\MODULES\R50a_feeder.xls
 Switching Module Name: C:\HM50a\MODULES\R50a_switching_io.xls
 Expense Module Name: C:\HM50a\MODULES\R50a_expense_wirecenter.xls

Module/Table	Scenario Input	Scenario Value	Default Value
Distribution	Aerial Drop Placement (total) - 0	37.5	23.33
Distribution	Aerial Drop Placement (total) - 5	37.5	23.33
Distribution	Aerial Drop Placement (total) - 100	25	17.5
Distribution	Aerial Drop Placement (total) - 200	25	17.5
Distribution	Aerial Drop Placement (total) - 650	12.5	11.67
Distribution	Aerial Drop Placement (total) - 850	12.5	11.67
Distribution	Aerial Drop Placement (total) - 2550	12.5	11.67
Distribution	Aerial Drop Placement (total) - 5000	12.5	11.67
Distribution	Aerial Drop Placement (total) - 10000	12.5	11.67
Distribution	Buried Drop Placement (total) - 0	0.8	0.6
Distribution	Buried Drop Placement (total) - 5	0.8	0.6
Distribution	Buried Drop Placement (total) - 100	0.8	0.6
Distribution	Buried Drop Placement (total) - 200	0.8	0.6
Distribution	Buried Drop Placement (total) - 650	0.8	0.6
Distribution	Buried Drop Placement (total) - 850	0.8	0.6
Distribution	Buried Drop Placement (total) - 2550	0.8	0.75
Distribution	Buried Drop Placement (total) - 5000	0.8	1.5
Distribution	Buried Drop Placement (total) - 10000	0.8	5
Distribution	Pole Investment	207.3	201
Distribution	Pole Labor	381.5	216
Distribution	Conduit Investment per foot	3.4	0.6
Distribution	Residential NID case, no protector	17.5	10
Distribution	Residential NID basic labor	22.5	15
Distribution	Residential Protection Block, per pair	4.5	4
Distribution	Business NID case, no protector	28.2	25
Distribution	Business NID basic labor	22.5	15
Distribution	Business Protection Block, per pair	4.5	4
Distribution	Drop cable investment per foot buried	0.2	0.14
Distribution	Drop cable investment per foot aerial	0.12	0.095
Distribution	Low Density DLC Basic Common Eqpt Invest + initial lines	18020	16000
Distribution	Distribution Cable Investment per foot 1	24.5	20
Distribution	Distribution Cable Investment per foot 2	19.05	16
Distribution	Distribution Cable Investment per foot 3	13.15	12

Scenario Inputs

NOTE: This sheet displays all user adjustable inputs which vary from HM 5.0a default settings

Workfile Name: C:\HM50a\WORKFILES\HMMWKFL2103363.XLS
 Distribution Module Name: C:\HM50a\MODULES\R50a_distribution.xls
 Feeder Module Name: C:\HM50a\MODULES\R50a_feeder.xls
 Switching Module Name: C:\HM50a\MODULES\R50a_switching_io.xls
 Expense Module Name: C:\HM50a\MODULES\R50a_expense_wirecenter.xls

Module/Table	Scenario Input	Scenario Value	Default Value
Distribution	Distribution Cable Investment per foot 4	9.95	10
Distribution	Distribution Cable Investment per foot 5	7.1	7.75
Distribution	Distribution Cable Investment per foot 6	5.45	6
Distribution	Distribution Cable Investment per foot 7	3.85	4.25
Distribution	Distribution Cable Investment per foot 8	2.45	2.5
Distribution	Distribution Cable Investment per foot 9	1.76	1.63
Distribution	Distribution Cable Investment per foot 10	1.43	1.19
Distribution	Distribution Cable Investment per foot 11	1.27	0.76
Distribution	Distribution Cable Investment per foot 12	1.19	0.63
Feeder	Fiber Feeder Investment per foot - 216	11.6	13.1
Feeder	Fiber Feeder Investment per foot - 144	10	9.5
Feeder	Fiber Feeder Investment per foot - 96	7.95	7.1
Feeder	Fiber Feeder Investment per foot - 72	6.65	5.9
Feeder	Fiber Feeder Investment per foot - 60	6.05	5.3
Feeder	Fiber Feeder Investment per foot - 48	5.6	4.7
Feeder	Fiber Feeder Investment per foot - 36	4.9	4.1
Feeder	Fiber Feeder Investment per foot - 24	4.2	3.5
Feeder	Fiber Feeder Investment per foot - 18	3.95	3.2
Feeder	Fiber Feeder Investment per foot - 12	3.55	2.9
Feeder	Copper Feeder Investment per foot - 4200	34.25	29
Feeder	Copper Feeder Investment per foot - 3600	31.25	26
Feeder	Copper Feeder Investment per foot - 3000	31.4	23
Feeder	Copper Feeder Investment per foot - 2400	24.5	20
Feeder	Copper Feeder Investment per foot - 1800	19.05	16
Feeder	Copper Feeder Investment per foot - 1200	13.15	12
Feeder	Copper Feeder Investment per foot - 900	9.95	10
Feeder	Copper Feeder Investment per foot - 600	7.1	7.75
Feeder	Copper Feeder Investment per foot - 400	5.45	6
Feeder	Copper Feeder Investment per foot - 200	3.85	4.25
Feeder	Copper Feeder Investment per foot - 100	2.45	2.5
Feeder	Pole Materials	207.3	201
Feeder	Pole Labor	381.5	216
Feeder	Conduit Material Investment per foot	3.4	0.6

Scenario Inputs

NOTE: This sheet displays all user adjustable inputs which vary from HM 5.0a default settings

Workfile Name: C:\HM50a\WORKFILES\HMWKFL2103363.XLS
 Distribution Module Name: C:\HM50a\MODULES\R50a_distribution.xls
 Feeder Module Name: C:\HM50a\MODULES\R50a_feeder.xls
 Switching Module Name: C:\HM50a\MODULES\R50a_switching_io.xls
 Expense Module Name: C:\HM50a\MODULES\R50a_expense_wirecenter.xls

Module/Table	Scenario Input	Scenario Value	Default Value
Switching	Constant EO Switching Investment Term, BOC and large ICO	254.87	242.73
Expense	Cost of Debt		0.077
Expense	Debt Fraction		0.45
Expense	Cost of Equity		0.119
Expense	Corporate Overhead Factor		0.104
Expense	Other Taxes Factor		0.05
Expense	Motor Vehicles - Economic Life		8.24
Expense	Buildings - Economic Life		46.93
Expense	Digital Electronic Switching - Economic Life		16.17
Expense	Digital Circuit Equipment - Economic Life		10.24
Expense	Poles - Economic Life		30.25
Expense	Aerial Cable - metallic - Economic Life		20.61
Expense	Aerial Cable - non metallic - Economic Life		26.14
Expense	Underground Cable - metallic - Economic Life		25
Expense	Underground Cable - non metallic - Economic Life		26.45
Expense	Buried - metallic - Economic Life		21.57
Expense	Buried - non metallic - Economic Life		25.91
Expense	Conduit Systems - Economic Life		56.19
Expense	Motor Vehicles - Net Salvage %		0.1121
Expense	Buildings - Net Salvage %		0.0187
Expense	Digital Electronic Switching - Net Salvage %		0.0297
Expense	Digital Circuit Equipment - Net Salvage %		-0.0169
Expense	Poles - Net Salvage %		-0.8998
Expense	Aerial Cable - metallic - Net Salvage %		-0.2303
Expense	Aerial Cable - non metallic - Net Salvage %		-0.1753
Expense	Underground Cable - metallic - Net Salvage %		-0.1826
Expense	Underground Cable - non metallic - Net Salvage %		-0.1458
Expense	Buried - metallic - Net Salvage %		-0.0839
Expense	Buried - non metallic - Net Salvage %		-0.0858
Expense	Conduit Systems - Net Salvage %		-0.1034

User Adjustable Inputs

	Current Scenario Value	Default Scenario Value		Current Scenario Value	Default Scenario Value
Distribution Input			Feeder Input		
Distribution Cable Fill - 0	0.50	0.50	Copper Feeder Fill - 0	0.65	0.65
Distribution Cable Fill - 5	0.55	0.55	Copper Feeder Fill - 5	0.75	0.75
Distribution Cable Fill - 100	0.55	0.55	Copper Feeder Fill - 100	0.80	0.80
Distribution Cable Fill - 200	0.60	0.60	Copper Feeder Fill - 200	0.80	0.80
Distribution Cable Fill - 650	0.65	0.65	Copper Feeder Fill - 650	0.80	0.80
Distribution Cable Fill - 850	0.70	0.70	Copper Feeder Fill - 850	0.80	0.80
Distribution Cable Fill - 2550	0.75	0.75	Copper Feeder Fill - 2550	0.80	0.80
Distribution Cable Fill - 5000	0.75	0.75	Copper Feeder Fill - 5000	0.80	0.80
Distribution Cable Fill - 10000	0.75	0.75	Copper Feeder Fill - 10000	0.80	0.80
Buried Fraction - 0	0.75	0.75	Fiber Feeder Strand Fill - 0	1.00	1.00
Buried Fraction - 5	0.75	0.75	Fiber Feeder Strand Fill - 5	1.00	1.00
Buried Fraction - 100	0.75	0.75	Fiber Feeder Strand Fill - 100	1.00	1.00
Buried Fraction - 200	0.70	0.70	Fiber Feeder Strand Fill - 200	1.00	1.00
Buried Fraction - 650	0.70	0.70	Fiber Feeder Strand Fill - 650	1.00	1.00
Buried Fraction - 850	0.70	0.70	Fiber Feeder Strand Fill - 850	1.00	1.00
Buried Fraction - 2550	0.65	0.65	Fiber Feeder Strand Fill - 2550	1.00	1.00
Buried Fraction - 5000	0.35	0.35	Fiber Feeder Strand Fill - 5000	1.00	1.00
Buried Fraction - 10000	0.05	0.05	Fiber Feeder Strand Fill - 10000	1.00	1.00
Aerial Cable Fraction - 0	0.25	0.25	Copper Aerial Fraction - 0	0.50	0.50
Aerial Cable Fraction - 5	0.25	0.25	Copper Aerial Fraction - 5	0.50	0.50
Aerial Cable Fraction - 100	0.25	0.25	Copper Aerial Fraction - 100	0.50	0.50
Aerial Cable Fraction - 200	0.30	0.30	Copper Aerial Fraction - 200	0.40	0.40
Aerial Cable Fraction - 650	0.30	0.30	Copper Aerial Fraction - 650	0.30	0.30
Aerial Cable Fraction - 850	0.30	0.30	Copper Aerial Fraction - 850	0.20	0.20
Aerial Cable Fraction - 2550	0.30	0.30	Copper Aerial Fraction - 2550	0.15	0.15
Aerial Cable Fraction - 5000	0.60	0.60	Copper Aerial Fraction - 5000	0.10	0.10
Aerial Cable Fraction - 10000	0.85	0.85	Copper Aerial Fraction - 10000	0.05	0.05
Pole Spacing, feet - 0	250	250	Copper Buried Fraction - 0	0.45	0.45
Pole Spacing, feet - 5	250	250	Copper Buried Fraction - 5	0.45	0.45
Pole Spacing, feet - 100	200	200	Copper Buried Fraction - 100	0.45	0.45
Pole Spacing, feet - 200	200	200	Copper Buried Fraction - 200	0.40	0.40
Pole Spacing, feet - 650	175	175	Copper Buried Fraction - 650	0.30	0.30
Pole Spacing, feet - 850	175	175	Copper Buried Fraction - 850	0.20	0.20
Pole Spacing, feet - 2550	150	150	Copper Buried Fraction - 2550	0.10	0.10
Pole Spacing, feet - 5000	150	150	Copper Buried Fraction - 5000	0.05	0.05
Pole Spacing, feet - 10000	150	150	Copper Buried Fraction - 10000	0.05	0.05
Drop Distance, feet - 0	150	150	Copper Manhole Spacing, feet - 0	800	800
Drop Distance, feet - 5	150	150	Copper Manhole Spacing, feet - 5	800	800
Drop Distance, feet - 100	100	100	Copper Manhole Spacing, feet - 100	800	800
Drop Distance, feet - 200	100	100	Copper Manhole Spacing, feet - 200	800	800
Drop Distance, feet - 650	50	50	Copper Manhole Spacing, feet - 650	600	600
Drop Distance, feet - 850	50	50	Copper Manhole Spacing, feet - 850	600	600
Drop Distance, feet - 2550	50	50	Copper Manhole Spacing, feet - 2550	600	600
Drop Distance, feet - 5000	50	50	Copper Manhole Spacing, feet - 5000	400	400
Drop Distance, feet - 10000	50	50	Copper Manhole Spacing, feet - 10000	400	400
Aerial Drop Placement (total) - 0	37.50	23.33	Fiber Aerial Fraction - 0	0.35	0.35
Aerial Drop Placement (total) - 5	37.50	23.33	Fiber Aerial Fraction - 5	0.35	0.35
Aerial Drop Placement (total) - 100	25.00	17.50	Fiber Aerial Fraction - 100	0.35	0.35
Aerial Drop Placement (total) - 200	25.00	17.50	Fiber Aerial Fraction - 200	0.30	0.30
Aerial Drop Placement (total) - 650	12.50	11.67	Fiber Aerial Fraction - 650	0.30	0.30
Aerial Drop Placement (total) - 850	12.50	11.67	Fiber Aerial Fraction - 850	0.20	0.20
Aerial Drop Placement (total) - 2550	12.50	11.67	Fiber Aerial Fraction - 2550	0.15	0.15
Aerial Drop Placement (total) - 5000	12.50	11.67	Fiber Aerial Fraction - 5000	0.10	0.10

User Adjustable Inputs

	Current Scenario Value	Default Scenario Value	Feeder Input	Current Scenario Value	Default Scenario Value
Distribution Input					
Aerial Drop Placement (total) - 10000	12.50	11.67	Fiber Aerial Fraction - 10000	0.05	0.05
Buried Drop Placement (total) - 0	0.80	0.60	Fiber Buried Fraction - 0	0.60	0.60
Buried Drop Placement (total) - 5	0.80	0.60	Fiber Buried Fraction - 5	0.60	0.60
Buried Drop Placement (total) - 100	0.80	0.60	Fiber Buried Fraction - 100	0.60	0.60
Buried Drop Placement (total) - 200	0.80	0.60	Fiber Buried Fraction - 200	0.60	0.60
Buried Drop Placement (total) - 650	0.80	0.60	Fiber Buried Fraction - 650	0.30	0.30
Buried Drop Placement (total) - 850	0.80	0.60	Fiber Buried Fraction - 850	0.20	0.20
Buried Drop Placement (total) - 2550	0.80	0.75	Fiber Buried Fraction - 2550	0.10	0.10
Buried Drop Placement (total) - 5000	0.80	1.50	Fiber Buried Fraction - 5000	0.05	0.05
Buried Drop Placement (total) - 10000	0.80	5.00	Fiber Buried Fraction - 10000	0.05	0.05
Buried Drop Sharing Fraction - 0	0.50	0.50	Fiber Pullbox Spacing, feet - 0	2,000.00	2,000.00
Buried Drop Sharing Fraction - 5	0.50	0.50	Fiber Pullbox Spacing, feet - 5	2,000.00	2,000.00
Buried Drop Sharing Fraction - 100	0.50	0.50	Fiber Pullbox Spacing, feet - 100	2,000.00	2,000.00
Buried Drop Sharing Fraction - 200	0.50	0.50	Fiber Pullbox Spacing, feet - 200	2,000.00	2,000.00
Buried Drop Sharing Fraction - 650	0.50	0.50	Fiber Pullbox Spacing, feet - 650	2,000.00	2,000.00
Buried Drop Sharing Fraction - 850	0.50	0.50	Fiber Pullbox Spacing, feet - 850	2,000.00	2,000.00
Buried Drop Sharing Fraction - 2550	0.50	0.50	Fiber Pullbox Spacing, feet - 2550	2,000.00	2,000.00
Buried Drop Sharing Fraction - 5000	0.50	0.50	Fiber Pullbox Spacing, feet - 5000	2,000.00	2,000.00
Buried Drop Sharing Fraction - 10000	0.50	0.50	Fiber Pullbox Spacing, feet - 10000	2,000.00	2,000.00
Buried Drop Fraction - 0	0.75	0.75	Fiber Feeder Investment per foot - 216	11.60	13.10
Buried Drop Fraction - 5	0.75	0.75	Fiber Feeder Investment per foot - 144	10.00	9.50
Buried Drop Fraction - 100	0.75	0.75	Fiber Feeder Investment per foot - 96	7.95	7.10
Buried Drop Fraction - 200	0.70	0.70	Fiber Feeder Investment per foot - 72	6.65	5.90
Buried Drop Fraction - 650	0.70	0.70	Fiber Feeder Investment per foot - 60	6.05	5.30
Buried Drop Fraction - 850	0.70	0.70	Fiber Feeder Investment per foot - 48	5.60	4.70
Buried Drop Fraction - 2550	0.70	0.70	Fiber Feeder Investment per foot - 36	4.90	4.10
Buried Drop Fraction - 5000	0.40	0.40	Fiber Feeder Investment per foot - 24	4.20	3.50
Buried Drop Fraction - 10000	0.15	0.15	Fiber Feeder Investment per foot - 18	3.95	3.20
Pole Investment	207.30	201.00	Fiber Feeder Investment per foot - 12	3.55	2.90
Pole Labor	381.50	216.00	Copper Feeder Investment per foot - 4200	34.25	29.00
Buried Cable Jacketing Multiplier	1.04	1.04	Copper Feeder Investment per foot - 3600	31.25	26.00
Conduit Investment per foot	3.40	0.60	Copper Feeder Investment per foot - 3000	31.40	23.00
Spare Tubes per route	1.00	1.00	Copper Feeder Investment per foot - 2400	24.50	20.00
Regional Labor Adjustment Factor (see Labor Inputs)	1.00	1.00	Copper Feeder Investment per foot - 1800	19.05	16.00
Residential NID case, no protector	17.50	10.00	Copper Feeder Investment per foot - 1200	13.15	12.00
Residential NID basic labor spare	22.50	15.00	Copper Feeder Investment per foot - 900	9.95	10.00
Residential Protection Block, per pair	4.50	4.00	Copper Feeder Investment per foot - 600	7.10	7.75
Business NID case, no protector	28.20	25.00	Copper Feeder Investment per foot - 400	5.45	6.00
Business NID basic labor	22.50	15.00	Copper Feeder Investment per foot - 200	3.85	4.25
Business Protection Block, per pair	4.50	4.00	Copper Feeder Investment per foot - 100	2.45	2.50
Average Lines per business location	4.00	4.00	Buried Copper Cable Sheath Multiplier	1.04	1.04
Terminal and Splice per line, buried	42.50	42.50	Buried Fiber Sheath Addition per foot	0.20	0.20
Terminal and Splice per line, aerial	32.00	32.00	Pole Materials	207.30	201.00
Drop cable investment per foot buried	0.20	0.14	Pole Labor	381.50	216.00
Drop cable buried pairs	3.00	3.00	Conduit Material Investment per foot	3.40	0.60
Drop cable investment per foot aerial	0.120	0.095	Inner Duct Investment per foot	0.30	0.30
Drop cable aerial pairs	2.00	2.00	Spare Tubes per section	1.00	1.00
DS-0 fraction	1.00	1.00	Regional Labor Adjustment Factor (see Labor	1.00	1.00
DS-1 fraction	-	-	Pole Spacing, feet - 0	250.00	250.00
DS-0 pair equivalent	1.00	1.00	Pole Spacing, feet - 5	250.00	250.00
DS-1 pair equivalent	2.00	2.00	Pole Spacing, feet - 100	200.00	200.00
			Pole Spacing, feet - 200	200.00	200.00

User Adjustable Inputs

Distribution Input	Current Scenario Value	Default Scenario Value	Feeder Input	Current Scenario Value	Default Scenario Value
DS-3 pair equivalent	56.00	56.00	Pole Spacing, feet - 650	175.00	175.00
Indoor NID case	5.00	5.00	Pole Spacing, feet - 850	175.00	175.00
Buried fraction available for shift - 0	0.75	0.75	Pole Spacing, feet - 2550	150.00	150.00
Buried fraction available for shift - 5	0.75	0.75	Pole Spacing, feet - 5000	150.00	150.00
Buried fraction available for shift - 100	0.75	0.75	Pole Spacing, feet - 10000	150.00	150.00
Buried fraction available for shift - 200	0.75	0.75	Buried fraction available for shift - 0	0.75	0.75
Buried fraction available for shift - 650	0.75	0.75	Buried fraction available for shift - 5	0.75	0.75
Buried fraction available for shift - 850	0.75	0.75	Buried fraction available for shift - 100	0.75	0.75
Buried fraction available for shift - 2550	0.75	0.75	Buried fraction available for shift - 200	0.75	0.75
Buried fraction available for shift - 5000	-	-	Buried fraction available for shift - 650	0.75	0.75
Buried fraction available for shift - 10000	-	-	Buried fraction available for shift - 850	0.75	0.75
Wireless Investment Cap Enabled	FALSE	FALSE	Buried fraction available for shift - 2550	0.75	0.75
Wireless Point to Point Inv cap - distribution, per line	7,500.00	7,500.00	Buried fraction available for shift - 5000	0.75	0.75
Wireless Common inv, broadcast	112,500.00	112,500.00	Buried fraction available for shift - 10000	0.75	0.75
Wireless per line inv, broadcast	500.00	500.00	Fiber investment/strand - foot	0.1000	0.10
Maximum broadcast lines for common inv	30.00	30.00	Copper investment/pair - foot	0.0075	0.01
High Density DLC Site and Power	3,000.00	3,000.00	Copper Manhole Materials - 0	1865	1,865.00
High Density DLC Maximum Lines/Increment	672.00	672.00	Copper Manhole Materials - 5	1865	1,865.00
High Density DLC RT Fill Factor	0.90	0.90	Copper Manhole Materials - 100	1865	1,865.00
High Density DLC Basic Common Eqpt Invest + initial lines	66,000.00	66,000.00	Copper Manhole Materials - 200	1865	1,865.00
High Density DLC POTS Channel Unit Investment	310.00	310.00	Copper Manhole Materials - 650	1865	1,865.00
High Density DLC POTS Lines per CU	4.00	4.00	Copper Manhole Materials - 850	1865	1,865.00
High Density DLC Coin Channel Unit Investment	250.00	250.00	Copper Manhole Materials - 2550	1865	1,865.00
High Density DLC Coin Lines per CU	2.00	2.00	Copper Manhole Materials - 5000	1865	1,865.00
High Density DLC 30/3/LD crossover, lines	480.00	480.00	Copper Manhole Materials - 10000	1865	1,865.00
High Density DLC Fibers per RT	4.00	4.00	Copper Manhole Frame and Cover - 0	350.00	350.00
High Density DLC Optical Patch Panel	1,000.00	1,000.00	Copper Manhole Frame and Cover - 5	350.00	350.00
High Density DLC Copper Feeder Max Distance, ft	9,000.00	9,000.00	Copper Manhole Frame and Cover - 100	350.00	350.00
High Density DLC Common Eqpt Invest per additional 672 lines	18,500.00	18,500.00	Copper Manhole Frame and Cover - 200	350.00	350.00
High Density DLC Maximum Number of additional line modules/R	2.00	2.00	Copper Manhole Frame and Cover - 650	350.00	350.00
Low Density DLC Site and Power	1,300	1,300	Copper Manhole Frame and Cover - 850	350.00	350.00
Low Density DLC Maximum Lines/Increment	120.00	120.00	Copper Manhole Frame and Cover - 2550	350.00	350.00
Low Density DLC RT Fill Factor	0.90	0.90	Copper Manhole Frame and Cover - 5000	350.00	350.00
Low Density DLC Basic Common Eqpt Invest + initial lines	18,020.00	16,000.00	Copper Manhole Frame and Cover - 10000	350.00	350.00
Low Density DLC POTS Channel Unit Investment	600.00	600.00	Copper Manhole Site Delivery - 0	125.00	125.00
Low Density DLC POTS Lines per CU	6.00	6.00	Copper Manhole Site Delivery - 5	125.00	125.00
Low Density DLC Coin Channel Unit Investment	600.00	600.00	Copper Manhole Site Delivery - 100	125.00	125.00
Low Density DLC Coin Lines per CU	6.00	6.00	Copper Manhole Site Delivery - 200	125.00	125.00
Low Density DLC Fibers per RT	4.00	4.00	Copper Manhole Site Delivery - 650	125.00	125.00
Low Density DLC Optical Patch Panel	1,000.00	1,000.00	Copper Manhole Site Delivery - 850	125.00	125.00
Low Density DLC Common Eqpt Invest per additional 96 lines	9,400.00	9,400.00	Copper Manhole Site Delivery - 2550	125.00	125.00
Low Density DLC Maximum Number of additional line modules/R	1.00	1.00	Copper Manhole Site Delivery - 5000	125.00	125.00
Distribution Cable Size 1	2,400.00	2,400.00	Copper Manhole Site Delivery - 10000	125.00	125.00
Distribution Cable Size 2	1,800.00	1,800.00	Copper Manhole Excavate and Backfill - 0	2,800	2,800
Distribution Cable Size 3	1,200.00	1,200.00	Copper Manhole Excavate and Backfill - 5	2,800	2,800
Distribution Cable Size 4	900.00	900.00	Copper Manhole Excavate and Backfill - 100	2,800	2,800
Distribution Cable Size 5	600.00	600.00	Copper Manhole Excavate and Backfill - 200	2,800	2,800
Distribution Cable Size 6	400.00	400.00	Copper Manhole Excavate and Backfill - 650	3,200	3,200
Distribution Cable Size 7	200.00	200.00	Copper Manhole Excavate and Backfill - 850	3,500	3,500
Distribution Cable Size 8	100.00	100.00	Copper Manhole Excavate and Backfill - 2550	3,500	3,500
Distribution Cable Size 9	50.00	50.00	Copper Manhole Excavate and Backfill - 5000	5,000	5,000
Distribution Cable Size 10	25.00	25.00	Copper Manhole Excavate and Backfill - 1000	5,000	5,000

User Adjustable Inputs

	Current Scenario Value	Default Scenario Value		Current Scenario Value	Default Scenario Value
Distribution Input			Feeder Input		
Distribution Cable Size 11	12.00	12.00	Fiber Pullbox Materials - 0	280.00	280.00
Distribution Cable Size 12	6.00	6.00	Fiber Pullbox Materials - 5	280.00	280.00
Distribution Cable Investment per foot 1	24.50	20.00	Fiber Pullbox Materials - 100	280.00	280.00
Distribution Cable Investment per foot 2	19.05	16.00	Fiber Pullbox Materials - 200	280.00	280.00
Distribution Cable Investment per foot 3	13.15	12.00	Fiber Pullbox Materials - 650	280.00	280.00
Distribution Cable Investment per foot 4	9.95	10.00	Fiber Pullbox Materials - 850	280.00	280.00
Distribution Cable Investment per foot 5	7.10	7.75	Fiber Pullbox Materials - 2550	280.00	280.00
Distribution Cable Investment per foot 6	5.45	6.00	Fiber Pullbox Materials - 5000	280.00	280.00
Distribution Cable Investment per foot 7	3.85	4.25	Fiber Pullbox Materials - 10000	280.00	280.00
Distribution Cable Investment per foot 8	2.45	2.50	Fiber Pullbox Installation - 0	220.00	220.00
Distribution Cable Investment per foot 9	1.76	1.63	Fiber Pullbox Installation - 5	220.00	220.00
Distribution Cable Investment per foot 10	1.43	1.19	Fiber Pullbox Installation - 100	220.00	220.00
Distribution Cable Investment per foot 11	1.27	0.76	Fiber Pullbox Installation - 200	220.00	220.00
Distribution Cable Investment per foot 12	1.19	0.63	Fiber Pullbox Installation - 650	220.00	220.00
Distribution Riser Cable Size 1	2,400.00	2,400.00	Fiber Pullbox Installation - 850	220.00	220.00
Distribution Riser Cable Size 2	1,800.00	1,800.00	Fiber Pullbox Installation - 2550	220.00	220.00
Distribution Riser Cable Size 3	1,200.00	1,200.00	Fiber Pullbox Installation - 5000	220.00	220.00
Distribution Riser Cable Size 4	900.00	900.00	Fiber Pullbox Installation - 10000	220.00	220.00
Distribution Riser Cable Size 5	600.00	600.00	Dewatering factor manhole excavation (additi	0.20	0.20
Distribution Riser Cable Size 6	400.00	400.00	Water table depth for dewatering, ft	5.00	5.00
Distribution Riser Cable Size 7	200.00	200.00			
Distribution Riser Cable Size 8	100.00	100.00			
Distribution Riser Cable Size 9	50.00	50.00			
Distribution Riser Cable Size 10	25.00	25.00			
Distribution Riser Cable Size 11	12.00	12.00			
Distribution Riser Cable Size 12	6.00	6.00			
Distribution Riser Cable Investment per foot 1	25.00	25.00			
Distribution Riser Cable Investment per foot 2	20.00	20.00			
Distribution Riser Cable Investment per foot 3	15.00	15.00			
Distribution Riser Cable Investment per foot 4	12.50	12.50			
Distribution Riser Cable Investment per foot 5	10.00	10.00			
Distribution Riser Cable Investment per foot 6	7.50	7.50			
Distribution Riser Cable Investment per foot 7	5.30	5.30			
Distribution Riser Cable Investment per foot 8	3.15	3.15			
Distribution Riser Cable Investment per foot 9	2.05	2.05			
Distribution Riser Cable Investment per foot 10	1.50	1.50			
Distribution Riser Cable Investment per foot 11	0.95	0.95			
Distribution Riser Cable Investment per foot 12	0.80	0.80			
Distance Multiplier for difficult terrain	1.00	1.00			
Rock Depth Threshold, inches	24.00	24.00			
Hard Rock Placement Multiplier	3.50	3.50			
Soft Rock Placement Multiplier	2.00	2.00			
Sidewalk/Street Fraction	0.20	0.20			
Local RT - Maximum Total Distance	18,000.00	18,000.00			
SAI Cable Size 1	7,200.00	7,200.00			
SAI Cable Size 2	5,400.00	5,400.00			
SAI Cable Size 3	3,600.00	3,600.00			
SAI Cable Size 4	2,400.00	2,400.00			
SAI Cable Size 5	1,800	1,800			
SAI Cable Size 6	1,200	1,200			
SAI Cable Size 7	900	900			
SAI Cable Size 8	600	600			

User Adjustable Inputs

Distribution Input	Current Scenario Value	Default Scenario Value	Feeder Input	Current Scenario Value	Default Scenario Value
SAI Cable Size 9	400	400			
SAI Cable Size 10	200	200			
SAI Cable Size 11	100	100			
SAI Cable Size 12	50	50			
SAI Indoor Investment 1	9,656	9,656			
SAI Indoor Investment 2	7,392	7,392			
SAI Indoor Investment 3	4,928	4,928			
SAI Indoor Investment 4	3,352	3,352			
SAI Indoor Investment 5	2,464.00	2,464.00			
SAI Indoor Investment 6	1,776.00	1,776.00			
SAI Indoor Investment 7	1,232.00	1,232.00			
SAI Indoor Investment 8	888.00	888.00			
SAI Indoor Investment 9	592.00	592.00			
SAI Indoor Investment 10	296.00	296.00			
SAI Indoor Investment 11	148.00	148.00			
SAI Indoor Investment 12	98.00	98.00			
SAI Outdoor Investment 1	10,000.00	10,000.00			
SAI Outdoor Investment 2	8,200.00	8,200.00			
SAI Outdoor Investment 3	6,000.00	6,000.00			
SAI Outdoor Investment 4	4,300.00	4,300.00			
SAI Outdoor Investment 5	3,400.00	3,400.00			
SAI Outdoor Investment 6	2,400.00	2,400.00			
SAI Outdoor Investment 7	1,900.00	1,900.00			
SAI Outdoor Investment 8	1,400.00	1,400.00			
SAI Outdoor Investment 9	1,000.00	1,000.00			
SAI Outdoor Investment 10	600.00	600.00			
SAI Outdoor Investment 11	350.00	350.00			
SAI Outdoor Investment 12	250.00	250.00			
Repeater Investment, installed	527.00	527.00			
Integrated COT, installed	420.00	420.00			
Remote Multiplexer Common Equip Inv, installed	8,200.00	8,200.00			
Channel Unit Investment, per subscriber	125.00	125.00			
COT investment per RT, installed	1,170.00	1,170.00			
Remote Terminal fill factor	0.90	0.90			
Maximum T1s per cable	8.00	8.00			
T1 repeater spacing, dB	32.00	32.00			
Aerial T1 attenuation, dB/kft	6.30	6.30			
Buried T1 attenuation, dB/kft	5.00	5.00			
Feeder steering enable	FALSE	FALSE			
Main feeder route/air multiplier	1	1			
Rectangular cluster switch	FALSE	FALSE			

User Adjustable Inputs

Switching Input	Current Scenario Value	Default Scenario Value	Expense Input	Current Scenario Value	Default Scenario Value
Constant EO Switching Investment Term, small ICO	416.11	416.11	Cost of Debt		0.077
Constant EO Switching Investment Term, BOC and large ICO	254.87	242.73	Debt Fraction		0.450
Switch Capacity Real-Time (BHCA) - 1	10,000	10,000	Cost of Equity		0.119
Switch Capacity Real-Time (BHCA) - 2	50,000	50,000	Average Trunk Utilization	0.300	0.300
Switch Capacity Real-Time (BHCA) - 3	200,000	200,000	Tax Rate	0.393	0.393
Switch Capacity Real-Time (BHCA) - 4	600,000	600,000	Corporate Overhead Factor		0.104
Switch Capacity Traffic (BHCCS) - 1	30,000	30,000	Other Taxes Factor		0.050
Switch Capacity Traffic (BHCCS) - 2	150,000	150,000	Billing/Bill Inquiry per line per month	1.220	1.220
Switch Capacity Traffic (BHCCS) - 3	600,000	600,000	Directory Listing per line per month	-	-
Switch Capacity Traffic (BHCCS) - 4	1,800,000	1,800,000	Forward-looking Network Operations Factor	0.500	0.500
Initial Switch Maximum Equipped Line Size	80,000	80,000	Alternative CO Switching Factor	0.027	0.027
Switch Port Administrative Fill	0.98	0.98	Alternative Circuit Equipment Factor	0.015	0.015
Switch Maximim Processor Occupancy	0.90	0.90	EO Traffic Sensitive Fraction	0.700	0.700
Processor Feature Loading Multiplier - normal	1.20	1.20	Monthly LNP cost, per line	0.250	0.250
Processor Feature Loading Multiplier - heavy business	2.00	2.00	Carrier to Carrier Customer Service, per line per ye	1.69	1.69
Processor Feature Loading Multiplier - business penetration threshold	0.30	0.30	NID Expense per line per year	1.00	1.00
MDF/Protector Investment per line	12.00	12.00	DS-0/DS-1 Terminal Factor	12.4	12.4
Analog Line Circuit Offset for DLC lines, per line	5.00	5.00	DS-1/DS-3 Terminal Factor	9.9	9.9
Switch Installation Multiplier	1.10	1.10	Average Lines per Business Location	4	4
Operator Traffic Fraction	0.02	0.02	Distribution Aerial Shring Fraction - 0	0.50	0.50
Total Interoffice Traffic Fraction	0.65	0.65	Distribution Aerial Shring Fraction - 5	0.33	0.33
Maximum Trunk Occupancy, CCS	27.50	27.50	Distribution Aerial Shring Fraction - 100	0.25	0.25
Trunk Port, per end	100.00	100.00	Distribution Aerial Shring Fraction - 200	0.25	0.25
Entrance Facility Distance, miles	0.50	0.50	Distribution Aerial Shring Fraction - 650	0.25	0.25
Direct-routed Fraction of Local Interoffice	0.98	0.98	Distribution Aerial Shring Fraction - 850	0.25	0.25
POPs per Tandem Location	5.00	5.00	Distribution Aerial Shring Fraction - 2550	0.25	0.25
Tandem-routed Fraction of Total IntraLATA Traffic	0.20	0.20	Distribution Aerial Shring Fraction - 5000	0.25	0.25
Tandem-routed Fraction of Total InterLATA Traffic	0.20	0.20	Distribution Aerial Shring Fraction - 10000	0.25	0.25
Local Call Attempts	197,857	197,857	Distribution Buried Shring Fraction - 0	0.33	0.33
Call Completion Factor	0.70	0.70	Distribution Buried Shring Fraction - 5	0.33	0.33
IntraLATA Calls Completed	11,845	11,845	Distribution Buried Shring Fraction - 100	0.33	0.33
InterLATA intrastate Calls Completed	11,920	11,920	Distribution Buried Shring Fraction - 200	0.33	0.33
InterLATA interstate Calls Completed	25,344	25,344	Distribution Buried Shring Fraction - 650	0.33	0.33
Local DEMs, thousands	873,192	873,192	Distribution Buried Shring Fraction - 850	0.33	0.33
Intrastate DEMs, thousands	186,443	186,443	Distribution Buried Shring Fraction - 2550	0.33	0.33
Interstate DEMs, thousands	184,077	184,077	Distribution Buried Shring Fraction - 5000	0.33	0.33
Local Business/Residence DEMs	1.10	1.10	Distribution Buried Shring Fraction - 10000	0.33	0.33
Intrastate Business/Residence DEMs	2.00	2.00	Distribution Underground Shring Fraction - 0	1.00	1.00
Interstate Business/Residence DEMs	3.00	3.00	Distribution Underground Shring Fraction - 5	0.50	0.50
BH Fraction of Daily Usage	0.10	0.10	Distribution Underground Shring Fraction - 100	0.50	0.50
Annual to Daily Usage Reduction Factor	270.00	270.00	Distribution Underground Shring Fraction - 200	0.50	0.50
Residential Holding Time Multiplier	1.00	1.00	Distribution Underground Shring Fraction - 650	0.40	0.40
Business Holding Time Multiplier	1.00	1.00	Distribution Underground Shring Fraction - 850	0.33	0.33
Residential Call Attempts per BH	1.30	1.30	Distribution Underground Shring Fraction - 2550	0.33	0.33
Business Call Attempts per BH	3.50	3.50	Distribution Underground Shring Fraction - 5000	0.33	0.33
ICO STP Investment, per line (equipment)	5.50	5.50	Distribution Underground Shring Fraction - 10000	0.33	0.33
ICO Local Tandem Investment, per line	1.90	1.90	Feeder Aerial Shring Fraction - 0	0.50	0.50
ICO OS Tandem Investment, per line	0.80	0.80	Feeder Aerial Shring Fraction - 5	0.33	0.33
ICO SCP Investment per line (equipment)	2.50	2.50	Feeder Aerial Shring Fraction - 100	0.25	0.25
ICO SCP - STP per line (wirecenter)	0.40	0.40	Feeder Aerial Shring Fraction - 200	0.25	0.25
ICO Local Tandem Investment, per line (wirecenter)	2.50	2.50	Feeder Aerial Shring Fraction - 650	0.25	0.25
ICO OS Tandem Investment, per line (wirecenter)	1.00	1.00	Feeder Aerial Shring Fraction - 850	0.25	0.25
ICO Tandem A Links and C Links per line (wirecenter)	0.30	0.30	Feeder Aerial Shring Fraction - 2550	0.25	0.25

User Adjustable Inputs

Switching Input	Current Scenario - Default Scenario		Expense Input	Current Scenario - Default Scenario	
	Value	Value		Value	Value
Real-time Limit, BHCA	750,000	750,000	Feeder Aerial Shring Fraction - 5000	0.25	0.25
Port Limit, trunks	100,000	100,000	Feeder Aerial Shring Fraction - 10000	0.25	0.25
Common Equipment Investment	1,000,000	1,000,000	Feeder Underground Shring Fraction - 0	0.50	0.50
Maximum Port Fill	0.90	0.90	Feeder Underground Shring Fraction - 5	0.50	0.50
Maximum Real-time Occupancy	0.90	0.90	Feeder Underground Shring Fraction - 100	0.40	0.40
Common Equipment Intercept Factor	0.50	0.50	Feeder Underground Shring Fraction - 200	0.33	0.33
STP Link Capacity	720	720	Feeder Underground Shring Fraction - 650	0.33	0.33
STP Maximum Link Fill	0.80	0.80	Feeder Underground Shring Fraction - 850	0.33	0.33
Maximum STP Investment, per pair	5,000,000	5,000,000	Feeder Underground Shring Fraction - 2550	0.33	0.33
Minimum STP Investment, per pair	1,000,000	1,000,000	Feeder Underground Shring Fraction - 5000	0.33	0.33
Link Termination, both ends	900	900	Feeder Underground Shring Fraction - 10000	0.33	0.33
Signaling Link Bit Rate	56,000	56,000	Feeder Buried Shring Fraction - 0	0.40	0.40
Link Occupancy	0.40	0.40	Feeder Buried Shring Fraction - 5	0.40	0.40
C Link Cross Section	24.00	24.00	Feeder Buried Shring Fraction - 100	0.40	0.40
ISUP Messages per Interoffice BHCA	6.00	6.00	Feeder Buried Shring Fraction - 200	0.40	0.40
ISUP Message Length, bytes	25.00	25.00	Feeder Buried Shring Fraction - 650	0.40	0.40
TCAP Messages per transaction	2.00	2.00	Feeder Buried Shring Fraction - 850	0.40	0.40
TCAP Message length, bytes	100.00	100.00	Feeder Buried Shring Fraction - 2550	0.40	0.40
Fraction of BHCA requiring TCAP	0.10	0.10	Feeder Buried Shring Fraction - 5000	0.40	0.40
SCP Investment/Transaction/Second	20,000	20,000	Feeder Buried Shring Fraction - 10000	0.40	0.40
Operator Investment per position	6,400	6,400	Motor Vehicles - Economic Life		8.24
Operator Maximum Utilization, per position, CCS	32	32	Garage Work Equipment - Economic Life		12.22
Operator Intervention Factor	10	10	Other Work Equipment - Economic Life		13.04
Public Telephone Investment, per station	760	760	Buildings - Economic Life		46.93
Lot Size, Multiplier of Switch Room Size	2	2	Furniture - Economic Life		15.92
Tandem/EO Wire Center Common Factor	0.40	0.40	Office Support Equipment - Economic Life		10.78
Power Investment 1	5,000	5,000	Company Comm. Equipment - Economic Life		7.40
Power Investment 2	10,000	10,000	General Purpose Computer - Economic Life		6.12
Power Investment 3	20,000	20,000	Digital Electronic Switching - Economic Life		16.17
Power Investment 4	50,000	50,000	Operator Systems - Economic Life		9.41
Power Investment 5	250,000	250,000	Digital Circuit Equipment - Economic Life		10.24
Switch Room Size, sq ft 1	500	500	Public Telephone Terminal Equipment - Economic		7.60
Switch Room Size, sq ft 2	1,000	1,000	Poles - Economic Life		30.25
Switch Room Size, sq ft 3	2,000	2,000	Aerial Cable - metallic - Economic Life		20.61
Switch Room Size, sq ft 4	5,000	5,000	Aerial Cable - non metallic - Economic Life		26.14
Switch Room Size, sq ft 5	10,000	10,000	Underground Cable - metallic - Economic Life		25.00
Construction Investment, sq ft 1	75.00	75.00	Underground Cable - non metallic - Economic Life		26.45
Construction Investment, sq ft 2	85.00	85.00	Buried - metallic - Economic Life		21.57
Construction Investment, sq ft 3	100.00	100.00	Buried - non metallic - Economic Life		25.91
Construction Investment, sq ft 4	125.00	125.00	Intrabuilding Cable - metallic - Economic Life		18.18
Construction Investment, sq ft 5	150.00	150.00	Intrabuilding Cable - non metallic - Economic Life		26.11
Land Investment, sq ft 1	5	5	Conduit Systems - Economic Life		56.19
Land Investment, sq ft 2	8	8	Motor Vehicles - Net Salvage %		0.1121
Land Investment, sq ft 3	10	10	Garage Work Equipment - Net Salvage %		-0.1071
Land Investment, sq ft 4	15	15	Other Work Equipment - Net Salvage %		0.0321
Land Investment, sq ft 5	20	20	Buildings - Net Salvage %		0.0187
OC-48 ADM, installed, 48 DS-3s	50,000	50,000	Furniture - Net Salvage %		0.0688
OC-48 ADM, installed, 12 DS-3s	40,000	40,000	Office Support Equipment - Net Salvage %		0.0691
OC-3/DS-1 Terminal Multiplexer, installed, 84 DS-1s	26,000	26,000	Company Comm. Equipment - Net Salvage %		0.0376
Investment per 7 DS-1s	500	500	General Purpose Computer - Net Salvage %		0.0373
Number of Fibers	24	24	Digital Electronic Switching - Net Salvage %		0.0297
Pigtrails, per strand	60	60	Operator Systems - Net Salvage %		-0.0082

User Adjustable Inputs

Switching Input	Current Scenario	Default Scenario	Expense Input	Current Scenario	Default Scenario
	Value	Value		Value	Value
Optical Distribution Panel	1,000	1,000	Digital Circuit Equipment - Net Salvage %		-0.0169
EF&I, per hour	55	55	Public Telephone Terminal Equipment - Net Salvage %		0.0797
EF&I hours	32	32	Poles - Net Salvage %		-0.8998
Regional Labor Adjustment Factor (see Labor Inputs)	1	1	Aerial Cable - metallic - Net Salvage %		-0.2303
Channel Bank Investment, per 24 lines	5,000	5,000	Aerial Cable - non metallic - Net Salvage %		-0.1753
Fraction of SA Lines Requiring Multiplexing	-	-	Underground Cable - metallic - Net Salvage %		-0.1826
Regenerator, installed	15,000	15,000	Underground Cable - non metallic - Net Salvage %		-0.1458
Regenerator spacing, miles	40	40	Buried - metallic - Net Salvage %		-0.0839
DCS installed, per DS-3	30,000	30,000	Buried - non metallic - Net Salvage %		-0.0858
Transmission Terminal Fill (DS-0 level)	0.90	0.90	Intrabuilding Cable - metallic - Net Salvage %		-0.1574
Fiber Investment, fiber cable	3.50	3.50	Intrabuilding Cable - non metallic - Net Salvage %		-0.1052
Fiber, number of strands per ADM	4.00	4.00	Conduit Systems - Net Salvage %		-0.1034
Fiber Investment, buried fraction	0.60	0.60	Furniture - Capital Costs - % assigned per line	0.0000	0.0000
Fiber Investment, buried placement	1.77	1.77	Furniture - Expenses - % assigned per line	0.0000	0.0000
Fiber Investment, buried sheath addition	0.20	0.20	Office Equipment - Capital Costs - % assigned per line	0.0000	0.0000
Fiber Investment, conduit	0.60	0.60	Office Equipment - Expenses - % assigned per line	0.0000	0.0000
Fiber, spare tubes per route	1.00	1.00	General Purpose Computer - Capital Costs - % assigned per line	0.0000	0.0000
Fiber Investment, conduit placement	16.40	16.40	General Purpose Computer - Expenses - % assigned per line	0.0000	0.0000
Fiber, pullbox spacing	2,000.00	2,000.00	Motor Vehicles - Capital Costs - % assigned per line	0.0000	0.0000
Fiber Investment, pullbox investment	500.00	500.00	Motor Vehicles - Expenses - % assigned per line	0.0000	0.0000
Fiber, aerial fraction	0.20	0.20	Buildings - Capital Costs - % assigned per line	0.0000	0.0000
Fiber, pole spacing, feet	150.00	150.00	Buildings - Expenses - % assigned per line	0.0000	0.0000
Fiber Investment, pole material	201.00	201.00	Garage Work Eqpt. - Capital Costs - % assigned per line	0.0000	0.0000
Fiber Investment, pole labor (basic)	216.00	216.00	Garage Work Eqpt. - Expenses - % assigned per line	0.0000	0.0000
Fraction Poles and Buried/Underground Placement Common with Fees	0.75	0.75	Other Work Eqpt. - Capital Costs - % assigned per line	0.0000	0.0000
Fraction of Aerial Structure Assigned to Telephone	0.33	0.33	Other Work Eqpt. - Expenses - % assigned per line	0.0000	0.0000
Fraction of Buried Structure Assigned to Telephone	0.33	0.33	Network Operations - % assigned per line	0.0000	0.0000
Fraction of Underground Structure Assigned to Telephone	0.33	0.33	Other Taxes - % assigned per line	0.0000	0.0000
Multiplicative EO Switching Investment Term	-14.922	(14.92)	Variable Overhead - % assigned per line	0.0000	0.0000
Threshold value for off-ring wire centers, total lines	1	1.00			
Remote host fraction of interoffice traffic -- remote	0.1	0.10			
Host-remote fraction of interoffice traffic -- host	0.05	0.05			
Maximum nodes per ring	16	16.00			
Use host - remote assignments	FALSE	FALSE			
Ring transiting traffic factor	0.4	0.40			
Intertandem fraction of tandem trunks (additive)	0.1	0.10			
Equivalent facility investment, per DS-0	138.08	138.08			
Equivalent terminal investment, per DS-0	111.62	111.62			
Switch line size - 1	0	-			
Switch line size - 2	640	640.00			
Switch line size - 3	5000	5,000.00			
Switch line size - 4	10000	10,000.00			
BOC standalone fixed inv - 1	175000	175,000.00			
BOC standalone fixed inv - 2	175000	175,000.00			
BOC standalone fixed inv - 3	175000	175,000.00			
BOC standalone fixed inv - 4	475000	475,000.00			
BOC host fixed inv - 1	183750	183,750.00			
BOC host fixed inv - 2	183750	183,750.00			
BOC host fixed inv - 3	183750	183,750.00			
BOC host fixed inv - 4	498750	498,750.00			
BOC remote fixed inv - 1	10000	10,000.00			
BOC remote fixed inv - 2	55000	55,000.00			

User Adjustable Inputs

Switching Input	Current Scenario Value	Default Scenario Value	Expense Input	Current Scenario Value	Default Scenario Value
BOC remote fixed inv - 3	70000	70,000.00			
BOC remote fixed inv - 4	225000	225,000.00			
BOC standalone per line inv - 1	75	75.00			
BOC standalone per line inv - 2	75	75.00			
BOC standalone per line inv - 3	75	75.00			
BOC standalone per line inv - 4	73	73.00			
BOC host per line inv - 1	75	75.00			
BOC host per line inv - 2	75	75.00			
BOC host per line inv - 3	75	75.00			
BOC host per line inv - 4	73	73.00			
BOC remote per line inv - 1	85	85.00			
BOC remote per line inv - 2	83	83.00			
BOC remote per line inv - 3	85	85.00			
BOC remote per line inv - 4	70	70.00			
ICO standalone fixed inv - 1	300001	300,001.00			
ICO standalone fixed inv - 2	300001	300,001.00			
ICO standalone fixed inv - 3	300001	300,001.00			
ICO standalone fixed inv - 4	814289	814,289.00			
ICO host fixed inv - 1	315001	315,001.00			
ICO host fixed inv - 2	315001	315,001.00			
ICO host fixed inv - 3	315001	315,001.00			
ICO host fixed inv - 4	855003	855,003.00			
ICO remote fixed inv - 1	17143	17,143.00			
ICO remote fixed inv - 2	94286	94,286.00			
ICO remote fixed inv - 3	120000	120,000.00			
ICO remote fixed inv - 4	385716	385,716.00			
ICO standalone per line inv - 1	129	129.00			
ICO standalone per line inv - 2	129	129.00			
ICO standalone per line inv - 3	129	129.00			
ICO standalone per line inv - 4	124	124.00			
ICO host per line inv - 1	129	129.00			
ICO host per line inv - 2	129	129.00			
ICO host per line inv - 3	129	129.00			
ICO host per line inv - 4	124	124.00			
ICO remote per line inv - 1	146	146.00			
ICO remote per line inv - 2	141	141.00			
ICO remote per line inv - 3	146	146.00			
ICO remote per line inv - 4	120	120.00			

User Adjustable Inputs

Switching Input	Current Scenario Value	Default Scenario Value	Expense Input	Current Scenario Value	Default Scenario Value
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User Adjustable Inputs

Underground Excavation/Restoration	Current Scenario Value	Default Scenario Value	Buried Excavation/Restoration	Current Scenario Value	Default Scenario Value
Trench Per Ft - 0	1.90	1.90	Plow Fraction - 0	0.60	0.60
Trench Per Ft - 5	1.90	1.90	Plow Fraction - 5	0.60	0.60
Trench Per Ft - 100	1.90	1.90	Plow Fraction - 100	0.60	0.60
Trench Per Ft - 200	1.90	1.90	Plow Fraction - 200	0.50	0.50
Trench Per Ft - 650	1.95	1.95	Plow Fraction - 650	0.35	0.35
Trench Per Ft - 850	2.15	2.15	Plow Fraction - 850	0.20	0.20
Trench Per Ft - 2550	2.15	2.15	Plow Fraction - 2550	0.00	0.00
Trench Per Ft - 5000	6.00	6.00	Plow Fraction - 5000	0.00	0.00
Trench Per Ft -10000	6.00	6.00	Plow Fraction -10000	0.00	0.00
Backhoe Trench Fraction - 0	0.45	0.45	Plow Per Ft - 0	0.80	0.80
Backhoe Trench Fraction - 5	0.45	0.45	Plow Per Ft - 5	0.80	0.80
Backhoe Trench Fraction - 100	0.45	0.45	Plow Per Ft - 100	0.80	0.80
Backhoe Trench Fraction - 200	0.45	0.45	Plow Per Ft - 200	0.80	0.80
Backhoe Trench Fraction - 650	0.45	0.45	Plow Per Ft - 650	0.80	0.80
Backhoe Trench Fraction - 850	0.45	0.45	Plow Per Ft - 850	1.20	1.20
Backhoe Trench Fraction - 2550	0.55	0.55	Plow Per Ft - 2550	1.20	1.20
Backhoe Trench Fraction - 5000	0.67	0.67	Plow Per Ft - 5000	1.20	1.20
Backhoe Trench Fraction -10000	0.72	0.72	Plow Per Ft -10000	1.20	1.20
Backhoe Trench Per Ft - 0	3.00	3.00	Trench Per Ft - 0	1.90	1.90
Backhoe Trench Per Ft - 5	3.00	3.00	Trench Per Ft - 5	1.90	1.90
Backhoe Trench Per Ft - 100	3.00	3.00	Trench Per Ft - 100	1.90	1.90
Backhoe Trench Per Ft - 200	3.00	3.00	Trench Per Ft - 200	1.90	1.90
Backhoe Trench Per Ft - 650	3.00	3.00	Trench Per Ft - 650	1.95	1.95
Backhoe Trench Per Ft - 850	3.00	3.00	Trench Per Ft - 850	2.15	2.15
Backhoe Trench Per Ft - 2550	3.00	3.00	Trench Per Ft - 2550	2.15	2.15
Backhoe Trench Per Ft - 5000	20.00	20.00	Trench Per Ft - 5000	6.00	6.00
Backhoe Trench Per Ft -10000	30.00	30.00	Trench Per Ft -10000	15.00	15.00
Hand Trench Fraction - 0	0.01	0.01	Backhoe Trench Fraction - 0	0.10	0.10
Hand Trench Fraction - 5	0.01	0.01	Backhoe Trench Fraction - 5	0.10	0.10
Hand Trench Fraction - 100	0.01	0.01	Backhoe Trench Fraction - 100	0.10	0.10
Hand Trench Fraction - 200	0.03	0.03	Backhoe Trench Fraction - 200	0.10	0.10
Hand Trench Fraction - 650	0.03	0.03	Backhoe Trench Fraction - 650	0.10	0.10
Hand Trench Fraction - 850	0.05	0.05	Backhoe Trench Fraction - 850	0.10	0.10
Hand Trench Fraction - 2550	0.10	0.10	Backhoe Trench Fraction - 2550	0.10	0.10
Hand Trench Fraction - 5000	0.10	0.10	Backhoe Trench Fraction - 5000	0.10	0.10
Hand Trench Fraction -10000	0.12	0.12	Backhoe Trench Fraction -10000	0.25	0.25
Hand Trench Per Ft - 0	5.00	5.00	Backhoe Trench Per Ft - 0	3.00	3.00
Hand Trench Per Ft - 5	5.00	5.00	Backhoe Trench Per Ft - 5	3.00	3.00
Hand Trench Per Ft - 100	5.00	5.00	Backhoe Trench Per Ft - 100	3.00	3.00
Hand Trench Per Ft - 200	5.00	5.00	Backhoe Trench Per Ft - 200	3.00	3.00
Hand Trench Per Ft - 650	5.00	5.00	Backhoe Trench Per Ft - 650	3.00	3.00
Hand Trench Per Ft - 850	5.00	5.00	Backhoe Trench Per Ft - 850	3.00	3.00
Hand Trench Per Ft - 2550	5.00	5.00	Backhoe Trench Per Ft - 2550	3.00	3.00
Hand Trench Per Ft - 5000	10.00	10.00	Backhoe Trench Per Ft - 5000	20.00	20.00
Hand Trench Per Ft -10000	18.00	18.00	Backhoe Trench Per Ft -10000	30.00	30.00
Cut/Restore Asphalt Fraction - 0	0.55	0.55	Hand Trench Fraction - 0	0.00	0.00
Cut/Restore Asphalt Fraction - 5	0.55	0.55	Hand Trench Fraction - 5	0.00	0.00
Cut/Restore Asphalt Fraction - 100	0.55	0.55	Hand Trench Fraction - 100	0.00	0.00
Cut/Restore Asphalt Fraction - 200	0.65	0.65	Hand Trench Fraction - 200	0.01	0.01
Cut/Restore Asphalt Fraction - 650	0.70	0.70	Hand Trench Fraction - 650	0.02	0.02
Cut/Restore Asphalt Fraction - 850	0.75	0.75	Hand Trench Fraction - 850	0.04	0.04
Cut/Restore Asphalt Fraction - 2550	0.75	0.75	Hand Trench Fraction - 2550	0.05	0.05
Cut/Restore Asphalt Fraction - 5000	0.80	0.80	Hand Trench Fraction - 5000	0.06	0.06

User Adjustable Inputs

Underground Excavation/Restoration	Current Scenario Value	Default Scenario Value	Buried Excavation/Restoration	Current Scenario Value	Default Scenario Value
Cut/Restore Asphalt Fraction -10000	0.82	0.82	Hand Trench Fraction -10000	0.10	0.10
Cut/Restore Asphalt Per Ft - 0	6.00	6.00	Hand Trench Per Ft - 0	5.00	5.00
Cut/Restore Asphalt Per Ft - 5	6.00	6.00	Hand Trench Per Ft - 5	5.00	5.00
Cut/Restore Asphalt Per Ft - 100	6.00	6.00	Hand Trench Per Ft - 100	5.00	5.00
Cut/Restore Asphalt Per Ft - 200	6.00	6.00	Hand Trench Per Ft - 200	5.00	5.00
Cut/Restore Asphalt Per Ft - 650	6.00	6.00	Hand Trench Per Ft - 650	5.00	5.00
Cut/Restore Asphalt Per Ft - 850	6.00	6.00	Hand Trench Per Ft - 850	5.00	5.00
Cut/Restore Asphalt Per Ft - 2550	6.00	6.00	Hand Trench Per Ft - 2550	5.00	5.00
Cut/Restore Asphalt Per Ft - 5000	18.00	18.00	Hand Trench Per Ft - 5000	10.00	10.00
Cut/Restore Asphalt Per Ft -10000	30.00	30.00	Hand Trench Per Ft -10000	18.00	18.00
Cut/Restore Concrete Fraction - 0	0.10	0.10	Bore Cable Fraction - 0	0.00	0.00
Cut/Restore Concrete Fraction - 5	0.10	0.10	Bore Cable Fraction - 5	0.00	0.00
Cut/Restore Concrete Fraction - 100	0.10	0.10	Bore Cable Fraction - 100	0.00	0.00
Cut/Restore Concrete Fraction - 200	0.10	0.10	Bore Cable Fraction - 200	0.00	0.00
Cut/Restore Concrete Fraction - 650	0.10	0.10	Bore Cable Fraction - 650	0.00	0.00
Cut/Restore Concrete Fraction - 850	0.10	0.10	Bore Cable Fraction - 850	0.03	0.03
Cut/Restore Concrete Fraction - 2550	0.15	0.15	Bore Cable Fraction - 2550	0.04	0.04
Cut/Restore Concrete Fraction - 5000	0.15	0.15	Bore Cable Fraction - 5000	0.05	0.05
Cut/Restore Concrete Fraction -10000	0.16	0.16	Bore Cable Fraction -10000	0.05	0.05
Cut/Restore Concrete Per Ft - 0	9.00	9.00	Bore Cable Per Ft - 0	11.00	11.00
Cut/Restore Concrete Per Ft - 5	9.00	9.00	Bore Cable Per Ft - 5	11.00	11.00
Cut/Restore Concrete Per Ft - 100	9.00	9.00	Bore Cable Per Ft - 100	11.00	11.00
Cut/Restore Concrete Per Ft - 200	9.00	9.00	Bore Cable Per Ft - 200	11.00	11.00
Cut/Restore Concrete Per Ft - 650	9.00	9.00	Bore Cable Per Ft - 650	11.00	11.00
Cut/Restore Concrete Per Ft - 850	9.00	9.00	Bore Cable Per Ft - 850	11.00	11.00
Cut/Restore Concrete Per Ft - 2550	9.00	9.00	Bore Cable Per Ft - 2550	11.00	11.00
Cut/Restore Concrete Per Ft - 5000	21.00	21.00	Bore Cable Per Ft - 5000	11.00	11.00
Cut/Restore Concrete Per Ft -10000	36.00	36.00	Bore Cable Per Ft -10000	18.00	18.00
Cut/Restore Sod Fraction - 0	0.01	0.01	Push Pipe/Pull Cable Fraction - 0	0.02	0.02
Cut/Restore Sod Fraction - 5	0.01	0.01	Push Pipe/Pull Cable Fraction - 5	0.02	0.02
Cut/Restore Sod Fraction - 100	0.01	0.01	Push Pipe/Pull Cable Fraction - 100	0.02	0.02
Cut/Restore Sod Fraction - 200	0.03	0.03	Push Pipe/Pull Cable Fraction - 200	0.02	0.02
Cut/Restore Sod Fraction - 650	0.04	0.04	Push Pipe/Pull Cable Fraction - 650	0.02	0.02
Cut/Restore Sod Fraction - 850	0.06	0.06	Push Pipe/Pull Cable Fraction - 850	0.04	0.04
Cut/Restore Sod Fraction - 2550	0.04	0.04	Push Pipe/Pull Cable Fraction - 2550	0.05	0.05
Cut/Restore Sod Fraction - 5000	0.02	0.02	Push Pipe/Pull Cable Fraction - 5000	0.06	0.06
Cut/Restore Sod Fraction -10000	0.00	0.00	Push Pipe/Pull Cable Fraction -10000	0.06	0.06
Cut/Restore Sod Per Ft - 0	1.00	1.00	Push Pipe/Pull Cable Per Ft - 0	6.00	6.00
Cut/Restore Sod Per Ft - 5	1.00	1.00	Push Pipe/Pull Cable Per Ft - 5	6.00	6.00
Cut/Restore Sod Per Ft - 100	1.00	1.00	Push Pipe/Pull Cable Per Ft - 100	6.00	6.00
Cut/Restore Sod Per Ft - 200	1.00	1.00	Push Pipe/Pull Cable Per Ft - 200	6.00	6.00
Cut/Restore Sod Per Ft - 650	1.00	1.00	Push Pipe/Pull Cable Per Ft - 650	6.00	6.00
Cut/Restore Sod Per Ft - 850	1.00	1.00	Push Pipe/Pull Cable Per Ft - 850	6.00	6.00
Cut/Restore Sod Per Ft - 2550	1.00	1.00	Push Pipe/Pull Cable Per Ft - 2550	6.00	6.00
Cut/Restore Sod Per Ft - 5000	1.00	1.00	Push Pipe/Pull Cable Per Ft - 5000	6.00	6.00
Cut/Restore Sod Per Ft -10000	1.00	1.00	Push Pipe/Pull Cable Per Ft -10000	24.00	24.00
Pavement Stabilization Per Ft - 0	5.00	5.00	Cut/Restore Asphalt Fraction - 0	0.03	0.03
Pavement Stabilization Per Ft - 5	5.00	5.00	Cut/Restore Asphalt Fraction - 5	0.03	0.03
Pavement Stabilization Per Ft - 100	5.00	5.00	Cut/Restore Asphalt Fraction - 100	0.03	0.03
Pavement Stabilization Per Ft - 200	5.00	5.00	Cut/Restore Asphalt Fraction - 200	0.03	0.03
Pavement Stabilization Per Ft - 650	5.00	5.00	Cut/Restore Asphalt Fraction - 650	0.03	0.03
Pavement Stabilization Per Ft - 850	9.00	9.00	Cut/Restore Asphalt Fraction - 850	0.05	0.05

User Adjustable Inputs

Underground Excavation/Restoration	Current Scenario Value	Default Scenario Value	Buried Excavation/Restoration	Current Scenario Value	Default Scenario Value
Pavement Stabilization Per Ft - 2550	13.00	13.00	Cut/Restore Asphalt Fraction - 2550	0.08	0.08
Pavement Stabilization Per Ft - 5000	17.00	17.00	Cut/Restore Asphalt Fraction - 5000	0.18	0.18
Pavement Stabilization Per Ft -10000	20.00	20.00	Cut/Restore Asphalt Fraction -10000	0.60	0.60
Dirt Stabilization Per Ft - 0	1.00	1.00	Cut/Restore Asphalt Per Ft - 0	6.00	6.00
Dirt Stabilization Per Ft - 5	1.00	1.00	Cut/Restore Asphalt Per Ft - 5	6.00	6.00
Dirt Stabilization Per Ft - 100	1.00	1.00	Cut/Restore Asphalt Per Ft - 100	6.00	6.00
Dirt Stabilization Per Ft - 200	1.00	1.00	Cut/Restore Asphalt Per Ft - 200	6.00	6.00
Dirt Stabilization Per Ft - 650	1.00	1.00	Cut/Restore Asphalt Per Ft - 650	6.00	6.00
Dirt Stabilization Per Ft - 850	4.00	4.00	Cut/Restore Asphalt Per Ft - 850	6.00	6.00
Dirt Stabilization Per Ft - 2550	11.00	11.00	Cut/Restore Asphalt Per Ft - 2550	6.00	6.00
Dirt Stabilization Per Ft - 5000	12.00	12.00	Cut/Restore Asphalt Per Ft - 5000	18.00	18.00
Dirt Stabilization Per Ft -10000	16.00	16.00	Cut/Restore Asphalt Per Ft -10000	30.00	30.00
Simple Backfill - 0	0.15	0.15	Cut/Restore Concrete Fraction - 0	0.01	0.01
Simple Backfill - 5	0.15	0.15	Cut/Restore Concrete Fraction - 5	0.01	0.01
Simple Backfill - 100	0.15	0.15	Cut/Restore Concrete Fraction - 100	0.01	0.01
Simple Backfill - 200	0.15	0.15	Cut/Restore Concrete Fraction - 200	0.01	0.01
Simple Backfill - 650	0.15	0.15	Cut/Restore Concrete Fraction - 650	0.01	0.01
Simple Backfill - 850	0.15	0.15	Cut/Restore Concrete Fraction - 850	0.03	0.03
Simple Backfill - 2550	0.15	0.15	Cut/Restore Concrete Fraction - 2550	0.05	0.05
Simple Backfill - 5000	0.15	0.15	Cut/Restore Concrete Fraction - 5000	0.08	0.08
Simple Backfill -10000	0.15	0.15	Cut/Restore Concrete Fraction -10000	0.20	0.20
			Cut/Restore Concrete Per Ft - 0	9.00	9.00
			Cut/Restore Concrete Per Ft - 5	9.00	9.00
			Cut/Restore Concrete Per Ft - 100	9.00	9.00
			Cut/Restore Concrete Per Ft - 200	9.00	9.00
			Cut/Restore Concrete Per Ft - 650	9.00	9.00
			Cut/Restore Concrete Per Ft - 850	9.00	9.00
			Cut/Restore Concrete Per Ft - 2550	9.00	9.00
			Cut/Restore Concrete Per Ft - 5000	21.00	21.00
			Cut/Restore Concrete Per Ft -10000	36.00	36.00
			Cut/Restore Sod Fraction - 0	0.02	0.02
			Cut/Restore Sod Fraction - 5	0.02	0.02
			Cut/Restore Sod Fraction - 100	0.02	0.02
			Cut/Restore Sod Fraction - 200	0.02	0.02
			Cut/Restore Sod Fraction - 650	0.02	0.02
			Cut/Restore Sod Fraction - 850	0.35	0.35
			Cut/Restore Sod Fraction - 2550	0.35	0.35
			Cut/Restore Sod Fraction - 5000	0.11	0.11
			Cut/Restore Sod Fraction -10000	0.05	0.05
			Cut/Restore Sod Per Ft - 0	1.00	1.00
			Cut/Restore Sod Per Ft - 5	1.00	1.00
			Cut/Restore Sod Per Ft - 100	1.00	1.00
			Cut/Restore Sod Per Ft - 200	1.00	1.00
			Cut/Restore Sod Per Ft - 650	1.00	1.00
			Cut/Restore Sod Per Ft - 850	1.00	1.00
			Cut/Restore Sod Per Ft - 2550	1.00	1.00
			Cut/Restore Sod Per Ft - 5000	1.00	1.00
			Cut/Restore Sod Per Ft -10000	1.00	1.00
			Restoration Not Required - 0	0.62	0.62
			Restoration Not Required - 5	0.62	0.62
			Restoration Not Required - 100	0.62	0.62
			Restoration Not Required - 200	0.52	0.52

User Adjustable Inputs

Underground Excavation/Restoration	Current Scenario Value	Default Scenario Value	Buried Excavation/Restoration	Current Scenario Value	Default Scenario Value
			Restoration Not Required - 650	0.37	0.37
			Restoration Not Required - 850	0.27	0.27
			Restoration Not Required - 2550	0.09	0.09
			Restoration Not Required - 5000	0.11	0.11
			Restoration Not Required -10000	0.11	0.11
			Simple Backfill - 0	0.15	0.15
			Simple Backfill - 5	0.15	0.15
			Simple Backfill - 100	0.15	0.15
			Simple Backfill - 200	0.15	0.15
			Simple Backfill - 650	0.15	0.15
			Simple Backfill - 850	0.15	0.15
			Simple Backfill - 2550	0.15	0.15
			Simple Backfill - 5000	0.15	0.15
			Simple Backfill -10000	0.15	0.15

User Adjustable Inputs

Underground Excavation/Restoration	Current Scenario Value	Default Scenario Value
Buried Excavation/Restoration	Current Scenario Value	Default Scenario Value

User Adjustable Inputs

Surface Texture Table		fraction of CBG	fraction of CBG	fraction of CBG	fraction of CBG	Current Scenario Value	Default Scenario Value
Effect		Effect	Effect	Effect			
BY	Bouldery	1	1	1	1	1	1
BY-COS	Bouldery Coarse Sand	1	1	1	1	0.125	0.125
BY-FSL	Bouldery & Fine Sandy Loam	1	1	1	1	0.164	0.164
BY-L	Bouldery & Loam	1	1	1	1	0.364	0.364
BY-LS	Bouldery & Sandy Loam	1	1	1	1	0.571	0.571
BY-SICL	Bouldery & Silty Clay Loam	1	1	1	1	0.518	0.518
BY-SL	Bouldery & Sandy Loam	1	1	1	1		
BYV	Very Bouldery	1.1	1	1.1	1		
BYV-FSL	Very Bouldery & Fine Sandy Loam	1.1	1	1.1	1		
BYV-L	Very bouldery & Loamy	1.1	1	1.1	1		
BYV-LS	Very Bouldery & Loamy Sand	1.1	1	1.1	1		
BYV-SIL	Very Bouldery & Silt	1.1	1	1.1	1		
BYV-SL	Very Bouldery & Sandy Loam	1.1	1	1.1	1		
BYX	Extremely Bouldery	1.3	1	1.3	1		
BYX-FSL	Extremely Bouldery & Fine Sandy Loam	1.3	1	1.3	1		
BYX-L	Extremely Bouldery & Loamy	1.3	1	1.3	1		
BYX-SIL	Extremely Bouldery & Silt Loam	1.3	1	1.3	1		
BYX-SL	Extremely Bouldery & Sandy Loam	1.3	1	1.3	1		
C	Clay	1	1	1	1		
CB	Cobbly	1	1	1	1		
CB-C	Cobbly & Clay	1	1	1	1		
CB-CL	Cobbly & Clay Loam	1	1	1	1		
CB-COSL	Cobbly & Coarse Sandy Loam	1	1	1	1		
CB-FS	Cobbly & Fine Sand	1.1	1	1.1	1		
CB-FSL	Cobbly & Fine Sandy Loam	1.1	1	1.1	1		
CB-L	Cobbly & Loamy	1	1	1	1		
CB-LCOS	Cobbly & Loamy coarseSand	1	1	1	1		
CB-LS	Cobbly & Loamy Sand	1	1	1	1		
CB-S	Cobbly & Sand	1.1	1	1.1	1		
CB-SCL	Cobbly & Sandy Clay Loam	1	1	1	1		
CB-SICL	Cobbly & Silty Clay Loam	1	1	1	1		
CB-SIL	Cobbly & Silt Loam	1	1	1	1		
CB-SL	Cobbly & Sandy Loam	1.1	1	1.1	1		
CBA	Angular Cobbly	1	1	1	1		
CBA-FSL	Angular Cobbly & Fine Sandy Loam	1.1	1	1.1	1		
CBV	Very Cobbly	1.2	1	1.2	1		
CBV-C	Very Cobbly & Clay	1.2	1	1.2	1		
CBV-CL	Very Cobbly & Clay Loam	1.2	1	1.2	1		
CBV-FSL	Very Cobbly & Fine Sandy Loam	1.2	1	1.2	1		
CBV-L	Very Cobbly & Loamy	1.2	1	1.2	1		
CBV-LFS	Very Cobbly & Fine Loamy Sand	1.2	1	1.2	1		
CBV-LS	Very Cobbly & Loamy Sand	1.2	1	1.2	1		
CBV-MUCK	Very Cobbly & Muck	1.2	1	1.2	1		
CBV-SCL	Very Cobbly & Sandy Clay Loam	1.2	1	1.2	1		
CBV-SIL	Very Cobbly & Silt	1.2	1	1.2	1		
CBV-SL	Very Cobbly & Sandy Loam	1.2	1	1.2	1		
CBV-VFS	Very Cobbly & Very Fine Sand	1.2	1	1.2	1		
CBX	Extremely Cobbly	1.2	1	1.2	1		
CBX-CL	Extremely Cobbly & Clay	1.2	1	1.2	1		
CBX-L	Extremely Cobbly Loam	1.2	1	1.2	1		
CBX-SIL	Extremely Cobbly & Silt	1.2	1	1.2	1		
CBX-SL	Extremely Cobbly & Sandy Loam	1.2	1	1.2	1		
CBX-VFSL	Extremely Cobbly Very Fine Sandy Loam	1.3	1	1.3	1		

User Adjustable Inputs

Surface Texture Table		Effect	fraction of GBG	Effect	fraction of GBG	Labor Adjustment Factors	Current Scenario Value	Default Scenario Value
CE	Coprogenous Earth	1	1	1	1			
CIND	Cinders	1	1	1	1			
CL	Clay Loam	1	1	1	1			
CM	Cemented	1.3	1	1.3	1			
CN	Channery	1	1	1	1			
CN-CL	Channery & Clay Loam	1	1	1	1			
CN-FSL	Channery & Fine Sandy Loam	1.1	1	1.1	1			
CN-L	Channery & Loam	1	1	1	1			
CN-SICL	Channery & Silty Clay Loam	1	1	1	1			
CN-SIL	Channery & Silty Loam	1	1	1	1			
CN-SL	Channery & Sandy Loam	1	1	1	1			
CNV	Very Channery	1	1	1	1			
CNV-CL	Very Channery & Clay	1	1	1	1			
CNV-L	Very Channery & Loam	1	1	1	1			
CNV-SCL	Channery & Sandy Clay Loam	1	1	1	1			
CNV-SIL	Very Channery & Silty Loam	1	1	1	1			
CNV-SL	Very Channery & Sandy Loam	1	1	1	1			
CNX	Extremely Channery	1	1	1	1			
CNX-SL	Extremely Channery & Sandy Loam	1	1	1	1			
COS	Coarse Sand	1	1	1	1			
COSL	Coarse Sandy Loam	1	1	1	1			
CR	Cherty	1.2	1	1.2	1			
CR-L	Cherty & Loam	1.2	1	1.2	1			
CR-SICL	Cherty & Silty Clay Loam	1.2	1	1.2	1			
CR-SIL	Cherty & Silty Loam	1.2	1	1.2	1			
CR-SL	Cherty & Sandy Loam	1.2	1	1.2	1			
CRC	Coarse Cherty	1.2	1	1.2	1			
CRV	Very Cherty	1.2	1	1.2	1			
CRV-L	Very Cherty & Loam	1.2	1	1.2	1			
CRV-SIL	Very Cherty & Silty Loam	1.2	1	1.2	1			
CRX	Extremely Cherty	1.3	1	1.3	1			
CRX-SIL	Extremely Cherty & Silty Loam	1.3	1	1.3	1			
DE	Diatomaceous Earth	1	1	1	1			
FB	Fibric Material	1	1	1	1			
FINE	Fine	1	1	1	1			
FL	Flaggy	1	1	1	1			
FL-FSL	Flaggy & Fine Sandy Loam	1.1	1	1.1	1			
FL-L	Flaggy & Loam	1	1	1	1			
FL-SIC	Flaggy & Silty Clay	1	1	1	1			
FL-SICL	Flaggy & Silty Clay Loam	1	1	1	1			
FL-SIL	Flaggy & Silty Loam	1	1	1	1			
FL-SL	Flaggy & Sandy Loam	1	1	1	1			
FLV	Very Flaggy	1.1	1	1.1	1			
FLV-COSL	Very Flaggy & Coarse Sandy Loam	1.1	1	1.1	1			
FLV-L	Very Flaggy & Loam	1.1	1	1.1	1			
FLV-SICL	Very Flaggy & Silty Clay Loam	1.1	1	1.1	1			
FLV-SL	Very Flaggy & Sandy Loam	1.1	1	1.1	1			
FLX	Extremely Flaggy	1.1	1	1.1	1			
FLX-L	Extremely Flaggy & Loamy	1.1	1	1.1	1			
FRAG	Fragmental Material	1	1	1	1			
FS	Fine Sand	1.1	1	1.1	1			
FSL	Fine Sandy Loam	1.1	1	1.1	1			

User Adjustable Inputs

Surface Texture Table		Effect	fraction of CBG	Effect	fraction of CBG	Labor Adjustment Factors	Current Scenario Value	Default Scenario Value
G	Gravel	1	1	1	1			
GR	Gravelly	1	1	1	1			
GR-C	Gravel & Clay	1	1	1	1			
GR-CL	Gravel & Clay Loam	1	1	1	1			
GR-COS	Gravel & Coarse Sand	1	1	1	1			
GR-COSL	Gravel & Coarse Sandy Loam	1	1	1	1			
GR-FS	Gravel & Fine Sand	1	1	1	1			
GR-FSL	Gravel & Fine Sandy Loam	1	1	1	1			
GR-L	Gravel & Loam	1	1	1	1			
GR-LCOS	Gravel & Loamy Coarse Sand	1	1	1	1			
GR-LFS	Gravel & Loamy Fine Sand	1.1	1	1.1	1			
GR-LS	Gravel & Loamy Sand	1	1	1	1			
GR-MUCK	Gravel & Muck	1	1	1	1			
GR-S	Gravel & Sand	1	1	1	1			
GR-SCL	Gravel & Sandy Clay Loam	1	1	1	1			
GR-SIC	Gravel & Silty Clay	1	1	1	1			
GR-SICL	Gravel & Silty Clay Loam	1	1	1	1			
GR-SIL	Gravel & Silty Loam	1	1	1	1			
GR-SL	Gravel & Sandy Loam	1	1	1	1			
GR-VFSL	Gravel & Very Fine Sandy Loam	1.1	1	1.1	1			
GRC	Coarse Gravelly	1	1	1	1			
GRF	Fine Gravel	1	1	1	1			
GRF-SIL	Fine Gravel Silty Loam	1	1	1	1			
GRV	Very Gravelly	1	1	1	1			
GRV-CL	Very gravelly & Clay Loam	1	1	1	1			
GRV-COS	Very Gravelly & coarse Sand	1	1	1	1			
GRV-COSL	Very Gravelly & coarse Sandy Loam	1	1	1	1			
GRV-FSL	Very Gravelly & Fine Sandy Loam	1	1	1	1			
GRV-L	Very Gravelly & Loam	1	1	1	1			
GRV-LCOS	Very Gravelly & Loamy Coarse Sand	1	1	1	1			
GRV-LS	Very Gravelly & Loamy Sand	1	1	1	1			
GRV-S	Very Gravelly & Sand	1	1	1	1			
GRV-SCL	Very Gravelly & Sandy Clay Loam	1	1	1	1			
GRV-SICL	Very Gravelly & Silty Clay Loam	1	1	1	1			
GRV-SIL	Very Gravelly & Silt	1	1	1	1			
GRV-SL	Very Gravelly & Sandy Loam	1	1	1	1			
GRV-VFS	Very Gravelly & Very Fine Sand	1	1	1	1			
GRV-VFSL	Very Gravelly & Very Fine Sandy Loam	1	1	1	1			
GRX	Extremely Gravelly	1.1	1	1.1	1			
GRX-CL	Extremely Gravelly & Coarse Loam	1.1	1	1.1	1			
GRX-COS	Extremely Gravelly & Coarse Sand	1.1	1	1.1	1			
GRX-COSL	Extremely Gravelly & Coarse Sandy Loam	1.1	1	1.1	1			
GRX-FSL	Extremely Gravelly & Fine Sand Loam	1.1	1	1.1	1			
GRX-L	Extremely Gravelly & Loam	1.1	1	1.1	1			
GRX-LCOS	Extremely Gravelly & Loamy Coarse	1.1	1	1.1	1			
GRX-LS	Extremely Gravelly & Loamy Sand	1.1	1	1.1	1			
GRX-S	Extremely Gravelly & Sand	1.1	1	1.1	1			
GRX-SIL	Extremely Gravelly & Silty Loam	1.1	1	1.1	1			
GRX-SL	Extremely Gravelly & Sandy Loam	1.1	1	1.1	1			
GYP	Gypsiferous Material	1.2	1	1.2	1			
HM	Hemic Material	1	1	1	1			
ICE	Ice or Frozen Soil	1.5	1	1.5	1			

User Adjustable Inputs

Surface Texture Table		Effect	fraction of CBG	Effect	fraction of CBG	Labor Adjustment Factors	Current Scenario Value	Default Scenario Value
IND	Indurated	1.2	1	1.2	1			
L	Loam	1	1	1	1			
LCOS	Loamy Coarse Sand	1	1	1	1			
LFS	Loamy Fine Sand	1.1	1	1.1	1			
LS	Loamy Sand	1	1	1	1			
LVFS	Loamy Very Fine Sand	1	1	1	1			
MARL	Marl	1	1	1	1			
MEDIUM	Medium Coarse	1	1	1	1			
MK	Mucky	1	1	1	1			
MK-C	Mucky Clay	1	1	1	1			
MK-CL	Mucky Clay Loam	1	1	1	1			
MK-FS	Muck & Fine Sand	1	1	1	1			
MK-FSL	Muck & Fine Sandy Loam	1	1	1	1			
MK-L	Mucky Loam	1	1	1	1			
MK-LFS	Mucky Loamy Fine Sand	1	1	1	1			
MK-LS	Mucky Loamy Sand	1	1	1	1			
MK-S	Muck & Sand	1	1	1	1			
MK-SI	Mucky & Silty	1	1	1	1			
MK-SICL	Mucky & Silty Clay Loam	1	1	1	1			
MK-SIL	Mucky Silt	1	1	1	1			
MK-SL	Mucky & Sandy Loam	1	1	1	1			
MK-VFSL	Mucky & Very Fine Sandy Loam	1	1	1	1			
MPT	Mucky Peat	1	1	1	1			
MUCK	Muck	1	1	1	1			
PEAT	Peat	1	1	1	1			
PT	Peaty	1	1	1	1			
RB	Rubby	1.5	1	1.5	1			
RB-FSL	Rubby Fine Sandy Loam	1.5	1	1.5	1			
S	Sand	1	1	1	1			
SC	Sandy Clay	1	1	1	1			
SCL	Sandy Clay Loam	1	1	1	1			
SG	Sand & Gravel	1	1	1	1			
SH	Shaly	1	1	1	1			
SH-CL	Shaly & Clay	1	1	1	1			
SH-L	Shale & Loam	1	1	1	1			
SH-SICL	Shaly & Silty Clay Loam	1	1	1	1			
SH-SIL	Shaly & Silt Loam	1	1	1	1			
SHV	Very Shaly	1.5	1	1.5	1			
SHV-CL	Very Shaly & Clay Loam	1.5	1	1.5	1			
SHX	Extremely Shaly	2	1	2	1			
SI	Silt	1	1	1	1			
SIC	Silty Clay	1	1	1	1			
SICL	Silty Clay Loam	1	1	1	1			
SIL	Silt Loam	1	1	1	1			
SL	Sandy Loam	1	1	1	1			
SP	Sapric Material	1	1	1	1			
SR	Stratified	1	1	1	1			
ST	Stony	1	1	1	1			
ST-C	Stony & Clay	1	1	1	1			
ST-CL	Stony & Clay Loam	1	1	1	1			
ST-COSL	Stony & Coarse Sandy Loam	1	1	1	1			
ST-FSL	Stony & Fine Sandy Loam	1.1	1	1.1	1			

User Adjustable Inputs

Surface Texture Table		Effect	fraction of GBG	Effect	fraction of GBG	Labor Adjustment Factors	Current Scenario Value	Default Scenario Value
ST-L	Stony & Loamy	1	1	1	1			
ST-LCOS	Stony & Loamy Coarse Sand	1	1	1	1			
ST-LFS	Stony & Loamy Fine Sand	1.1	1	1.1	1			
ST-LS	Stony & Loamy Sand	1	1	1	1			
ST-SIC	Stony & Silty Clay	1	1	1	1			
ST-SICL	Stony & Silty Clay Loam	1	1	1	1			
ST-SIL	Stony & Silt Loam	1	1	1	1			
ST-SL	Stony & Sandy Loam	1	1	1	1			
ST-VFSL	Stony & Sandy Very Fine Silty Loam	1.1	1	1.1	1			
STV	Very Stony	1.2	1	1.2	1			
STV-C	Very Stony & Clay	1.2	1	1.2	1			
STV-CL	Very Stony & Clay Loam	1.2	1	1.2	1			
STV-FSL	Very Stony & Fine Sandy Loam	1.2	1	1.2	1			
STV-L	Very Stony & Loamy	1.2	1	1.2	1			
STV-LFS	Very Stony & Loamy Fine Sand	1.2	1	1.2	1			
STV-LS	Very Stony & Loamy Sand	1.2	1	1.2	1			
STV-MPT	Very Stony & Mucky Peat	1.2	1	1.2	1			
STV-MUCK	Very Stony & Muck	1.2	1	1.2	1			
STV-SICL	Very Stony & Silty Clay Loam	1.2	1	1.2	1			
STV-SIL	Very Stony & Silty Loam	1.2	1	1.2	1			
STV-SL	Very Stony & Sandy Loam	1.2	1	1.2	1			
STV-VFSL	Very Stony & Very Fine Sandy Loam	1.2	1	1.2	1			
STX	Extremely Stony	1.3	1	1.3	1			
STX-C	Extremely Stony & Clay	1.3	1	1.3	1			
STX-CL	Extremely Stony & Clay Loam	1.3	1	1.3	1			
STX-COS	Extremely Stony & Coarse Sand	1.3	1	1.3	1			
STX-COSL	Extremely Stony & Coarse Sand Loam	1.3	1	1.3	1			
STX-FSL	Extremely Stony & Fine Sandy Loam	1.3	1	1.3	1			
STX-L	Extremely Stony & Loamy	1.3	1	1.3	1			
STX-LCOS	Extremely Stony & Loamy Coarse Sand	1.3	1	1.3	1			
STX-LS	Extremely Stony & Loamy Sand	1.3	1	1.3	1			
STX-MUCK	Extremely Stony & Muck	1.3	1	1.3	1			
STX-SIC	Extremely Stony & Silty Clay	1.3	1	1.3	1			
STX-SICL	Extremely Stony & Silty Clay Loam	1.3	1	1.3	1			
STX-SIL	Extremely Stony & Silty Loam	1.3	1	1.3	1			
STX-SL	Extremely Stony & Sandy Loam	1.3	1	1.3	1			
STX-VFSL	Extremely Stony & Very Fine Sandy Loam	1.3	1	1.3	1			
SY	Slaty	3	1	3	1			
SY-L	Slaty & Loam	3	1	3	1			
SY-SIL	Slaty & Silty Loam	3	1	3	1			
SYV	Very Slaty	3.5	1	3.5	1			
SYX	Extremely Slaty	4	1	4	1			
UNK	Unknown	1	1	1	1			
UWB	Unweathered Bedrock	2	1	2	1			
VAR	Variable	1	1	1	1			
VFS	Very Fine Sand	1	1	1	1			
VFSL	Very Fine Sandy loam	1	1	1	1			
WB	Weathered Bedrock	3	1	3	1			